

FCC TEST REPORT PART 1

Application No.: ZEWM2308001142RG01
Applicant: Shenzhen Tinno Mobile Technology Corp.
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Product Name: Smart Phone
Model No.(EUT): Celero3 5G
FCC ID: XD6U653DS
Standards: FCC 47CFR §2.1093
Date of Receipt: 2023/08/23
Date of Test: 2023/09/10 to 2023/10/13
Date of Issue: 2023/10/16
Test conclusion: **PASS ***

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

Authorized Signature:



Ervin Li

Regulatory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
ZEWM2308001142RG01	01	Original	2023/10/16

Prepared By	 <hr/> Vito Wang
Checked By	 <hr/> Roman Pan



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.35	0.29	0.64	/
GSM1900	0.25	0.35	0.59	/
WCDMA Band II	0.37	0.54	0.99	/
WCDMA Band IV	0.34	0.35	0.70	/
WCDMA Band V	0.47	0.39	0.71	/
LTE Band 2	1.07	0.54	1.08	/
LTE Band 5	0.54	0.30	0.56	/
LTE Band 12/17	0.30	0.42	0.50	/
LTE Band 14	0.34	0.39	0.47	/
LTE Band 26	0.36	0.30	0.56	/
LTE Band 30	0.91	0.79	0.87	2.85
LTE Band 48	0.68	0.37	1.09	/
LTE Band 66/4	0.96	0.40	0.71	/
LTE Band 71	0.29	0.36	0.57	/
NR Band 2	1.18	0.62	0.96	/
NR Band 5	0.42	0.35	0.66	/
NR Band 25	1.23	0.53	0.95	/
NR Band 26	0.39	0.37	0.70	/
NR Band 30	1.05	0.77	0.92	2.35
NR Band 41	1.00	0.74	1.22	3.03
NR Band 48	0.85	0.30	0.91	/
NR Band 66	1.19	0.41	0.76	/
NR Band 70	1.20	0.42	0.68	/
NR Band 71	0.29	0.37	0.54	/
NR Band 77	1.13	0.50	1.21	3.11
WI-FI (2.4GHz)	0.99	0.22	0.41	/
WI-FI (5GHz)	1.19	1.18	0.40	2.98
BT	0.11	<0.10	<0.10	/
SAR Limited(W/kg)	1.6			4.0
Maximum Simultaneous Transmission SAR (W/kg)				
Scenario	Head	Body-worn	Hotspot	Product specific 10g SAR
Sum SAR	1.49	1.48	1.49	3.58
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

Note:

- 1) The Simultaneous transmission SAR is the same test position of the WWAN antenna + WiFi/BT antenna.
- 2) According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). The SAR in LTE band 4 (frequency range: 1710~1755 MHz) is covered by LTE band 66 (frequency range: 1710~1780 MHz). The SAR in LTE band 5 (frequency range: 824~849 MHz) is covered by LTE band 26 (frequency range: 814~849 MHz). Because the frequency range is similar, the maximum tuning limit is the same, and the channel bandwidth and other operating parameters for the smaller band is fully supported by the larger band.



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1 General Information

1.1 Details of Client

Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test Engineer:	Claire Shen, Charley Yi, Mike Li, Durant Lin, Bernie Zhuang, Messi Chen, James Zheng, Ethan Li



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1.3 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

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

• **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.

• **FCC –Designation Number: CN1336**

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

Designation Number: CN1336. Test Firm Registration Number: 787754.



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1.4 General Description of EUT

Device Type :	portable device		
Exposure Category:	uncontrolled environment / general population		
Product Name:	Mobile Phone		
Model No.(EUT):	Celero3 5G		
FCC ID:	XD6U653DS		
Product Phase:	Identical Prototype		
IMEI:	860284060018164, 860284060014858, 860284060017737, 860284060017414		
Hardware Version:	V1.0		
Software Version:	/		
Antenna Type:	Fixed Internal Antenna, PIFA Antenna		
Device Operating Configurations :			
Modulation Mode:	GSM: GMSK, 8PSK; WCDMA: QPSK, 16QAM(HSPA+); LTE: QPSK, 16QAM, 64QAM, 256QAM; 5G NR: DFT-s-OFDM (PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM), CP-OFDM (QPSK, 16QAM, 64QAM, 256QAM) WIFI: DSSS, OFDM, OFDMA; BT: GFSK, π/4DQPSK, 8DPSK NFC: ASK		
Device Class:	B		
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12
HSDPA UE Category:	10	HSUPA UE Category	7
DC-HSDPA UE Category:	24		
Power Class:	4, tested with power level 5(GSM850)		
	1, tested with power level 0(GSM1900)		
	3, tested with power control "all 1"(WCDMA Band)		
	3, tested with power control Max Power(LTE Band)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 12	699~716	729~746
	LTE Band 14	788~798	758~768
	LTE Band 17	704~716	734~746
	LTE Band 26	814~849	859~894
	LTE Band 30	2305~2315	2350~2360
	LTE Band 48	3550~3700	3550~3700
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
NR Band n2	1850~1910	1930 ~1990	
NR Band n5	824~849	869-894	



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	NR Band n25	1850~1915	1930~1995
	NR Band n26	814~849	859~894
	NR Band n30	2305~2315	2350~2360
	NR Band n41	2496~2690	2496~2690
	NR Band n48	3550~3700	3550~3700
	NR Band n66	1710~1780	2110~2200
	NR Band n70	1695 - 1710	1995 - 2020
	NR Band n71	663 - 698	617 - 652
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 2.4G	2412~2462	2412~2462
	Wi-Fi 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
5725~5850		5725~5850	
Wi-Fi 6E	5925~6425MHz	5925~6425MHz	
	6425~6525MHz	6425~6525MHz	
	6525~6875MHz	6525~6875MHz	
	6875~7125MHz	6875~7125MHz	
NFC	13.56	13.56	
RF Cable:	<input checked="" type="checkbox"/> Provided by the applicant <input type="checkbox"/> Provided by the laboratory		
Battery Information:	Model:	486786	
	Normal Voltage:	+3.85V	
	Rated capacity:	4900mAh	
	Manufacturer:	Guangdong Fenghua New Energy Co.,Ltd.	
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1.4.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Appendix F

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 177mm. Per KDB 648474 D04, because the diagonal distance of this device is $\geq 160\text{mm}$, so it is a phablet.

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

Distance of the Antenna to the EUT surface/edge						
Mode	Front	Back	Left	Right	Top	Bottom
Ant1	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant2	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant3	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant4	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant5	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant6	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant7	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant9	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$

Table 1: Distance of the Antenna to the EUT surface/edge

Note:

- 1) When the antenna-to-edge distance is greater than 25mm, such position does not need to be tested.



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1.4.2 Smart Transmit feature for RF Exposure compliance

The RF exposure limit is defined based on time-averaged RF exposure. The product implements MTK Smart Transmit feature which controls the instantaneous transmit power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency ≤ 6GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

Note: GSM/WCDMA/LTE Standalone/NR SA are configured for peak exposure mode, but NSA and Inter band UL CA are not peak exposure mode.

The parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit Feature.

<Terminologies in this report>

P _{limit}	The time-averaged RF power which corresponds to SAR_design_target
P _{max}	Maximum tune-up power level
SAR_design_target	The design target for SAR compliance. It should be less than SAR limit to account for all device design related uncertainties.
SAR char	P _{limit} for all the technologies/bands

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for f < 6 GHz.

SAR_design_target and Uncertainty

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

$$SAR_design_target < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

Uncertainty dB (k=2)	All Band
Total uncertainty	1.0

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(1g)	SAR_design_target W/kg(1g)
Head	WWAN	1.6	1.0
Body worn	WWAN	1.6	1.0
Hotspot	WWAN	1.6	1.0

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(10g)	SAR_design_target W/kg(1g)
Product specific 10gSAR	WWAN	4.0	2.5



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The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (ECI: Device State Index).

P_{limit} for supported technologies and bands (actual EFS settings)

Band	Mode	Antenna	P_{max}^*	P_{limit} (average)		
				FCC Head	FCC Hotspot	FCC Body worn&0mm
				ECI 4	ECI 3	ECI 1
GSM 850	GPRS 4TS	1#	24.3	24.3	24.3	24.3
GSM 1900	GPRS 4TS	2#	21.3	21.3	21.3	21.3
WCDMA_B2	RMC	2#	23.0	23.0	23.0	23.0
WCDMA_B4	RMC	2#	23.0	23.0	23.0	23.0
WCDMA_B5	RMC	1#	23.0	23.0	23.0	23.0
LTE_B2	QPSK	2#	23.5	23.5	23.5	23.5
LTE_B2	QPSK	3#	22.0	17.5	22.0	22.0
ENDC LTE_B2	QPSK	3#	23.5	18.0	23.5	23.5
LTE_B4	QPSK	2#	23.5	23.5	23.5	23.5
LTE_B4	QPSK	3#	22.5	19.5	22.5	22.5
ENDC LTE_B4	QPSK	3#	23.5	18.0	23.5	23.5
LTE_B5	QPSK	1#	24.0	24.0	24.0	24.0
ENDC LTE_B5	QPSK	3#	24.0	24.0	24.0	24.0
LTE_B12	QPSK	1#	24.0	24.0	24.0	24.0
LTE_B14	QPSK	1#	24.0	24.0	24.0	24.0
LTE_B17	QPSK	1#	23.0	23.0	23.0	23.0
LTE_B26	QPSK	1#	24.0	24.0	24.0	24.0
ENDC LTE_B30	QPSK	1#	22.0	22.0	20.0	21.0
LTE_B30	QPSK	3#	22.0	12.5	17.0	20.0
LTE_B48	QPSK	5#	21.0	14.5	21.0	21.0
LTE_B66	QPSK	2#	23.5	23.5	23.5	23.5
LTE_B66	QPSK	3#	22.5	19.5	22.5	22.5
ENDC LTE_B66	QPSK	3#	23.5	18.0	23.5	23.5



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LTE_B71	QPSK	1#	24.0	24.0	24.0	24.0
NR5G_N2	QPSK	2#	23.5	23.5	23.5	23.5
NR5G_N2	QPSK	3#	22.0	17.5	22.0	22.0
NR5G_N5	QPSK	1#	24.0	24.0	24.0	24.0
NR5G_N25	QPSK	2#	23.5	23.5	23.5	23.5
NR5G_N25	QPSK	3#	22.0	18.0	22.0	22.0
NR5G_N26	QPSK	1#	24.0	24.0	24.0	24.0
NR5G_N30	QPSK	3#	22.0	14.0	18.0	21.5
NR5G_N41-PC2	QPSK	1#	22.2	22.2	22.2	18.0
NR5G_N41-PC2	QPSK	3#	23.0	12.2	14.7	17.2
NR5G_N41-PC2	QPSK	4#	21.5	21.5	21.5	21.5
NR5G_N41-PC2	QPSK	6#	22.0	22.0	22.0	22.0
NR5G_N41-PC3	QPSK	1#	21.5	21.5	21.5	20.0
NR5G_N41-PC3	QPSK	3#	22.7	14.2	16.7	19.2
NR5G_N41-PC3	QPSK	4#	20.7	20.7	20.7	20.7
NR5G_N41-PC3	QPSK	6#	21.5	21.5	21.5	21.5
NR5G_N48	QPSK	5#	22.0	15.5	20.0	20.0
NR5G_N66	QPSK	2#	23.5	23.5	23.5	23.5
NR5G_N66	QPSK	3#	22.5	19.0	22.5	22.5
NR5G_N70	QPSK	2#	23.5	23.5	23.5	23.5
NR5G_N70	QPSK	3#	22.5	20.0	22.5	22.5
NR5G_N71	QPSK	1#	24.0	24.0	24.0	24.0
NR5G_N77 L-PC2	QPSK	2#	20.0	20.0	20.0	20.0
NR5G_N77 L-PC2	QPSK	4#	21.5	21.5	21.5	21.5
NR5G_N77 L-PC2	QPSK	5#	23.7	12.7	18.2	19.2
NR5G_N77 L-PC2	QPSK	6#	21.5	19.5	21.5	21.5
NR5G_N77 L-PC3	QPSK	2#	19.0	19.0	19.0	19.0
NR5G_N77 L-PC3	QPSK	4#	20.5	20.5	20.5	20.5
NR5G_N77 L-PC3	QPSK	5#	22.7	14.7	20.2	21.2
NR5G_N77 L-PC3	QPSK	6#	20.5	20.5	20.5	20.5
NR5G_N77 H-PC2	QPSK	2#	20.0	20.0	20.0	20.0
NR5G_N77 H-PC2	QPSK	4#	21.5	21.5	21.5	21.5
NR5G_N77 H-PC2	QPSK	5#	23.7	14.7	19.7	19.7
NR5G_N77 H-PC2	QPSK	6#	21.5	17.0	21.5	21.5



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NR5G_N77 H-PC3	QPSK	2#	19.0	19.0	19.0	19.0
NR5G_N77 H-PC3	QPSK	4#	20.5	20.5	20.5	20.5
NR5G_N77 H-PC3	QPSK	5#	22.7	16.7	21.7	21.7
NR5G_N77 H-PC3	QPSK	6#	20.5	19.0	20.5	20.5

Note:

- 1) * P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to $P_{max} + \text{Total uncertainty}$.
- 2) The max allowed output power is the $P_{limit} + \text{Total uncertainty}$, and if P_{limit} is higher than P_{max} , the device output power will be P_{max} instead.
- 3) Note that WLAN operations are not enabled with Smart Transmit.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.



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1.4.3 LTE CA additional specification

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

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

UL LTE CA
CA_5B
CA_2A-12A
CA_12A-66A
CA_2A-5A
CA_5A-66A
CA_2A-14A
CA_14A-66A
CA_2A-4A
CA_2A-66A

DL LTE CA
CA_2A-5A
CA_2A-12A
CA_2A-29A
CA_12A-30A
CA_2A-30A
CA_5A-30A
CA_29A-30A
CA_5B
CA_5A-66A
CA_12A-66A
CA_2A-66A
CA_30A-66A
CA_66A-66A
CA_29A-66A
CA_2A-14A



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CA_14A-66A
 CA_14A-30A
 CA_66B
 CA_66C
 CA_2A-48A
 CA_48A-66A
 CA_48C
 CA_48A-48A
 CA_4A-48A
 CA_5A-48A
 CA_4A-4A
 CA_4A-5A
 CA_4A-12A
 CA_2A-2A
 CA_2A-4A
 CA_2C
 CA_2A-71A
 CA_4A-71A
 CA_66A-71A
 CA_2A-17A
 CA_4A-17A
 CA_26A-48A
 CA_26A-48A-48A
 CA_2A-12A-30A
 CA_4A-12A-30A
 CA_2A-5A-30A
 CA_4A-4A-12A
 CA_2A-2A-12A
 CA_2A-4A-5A
 CA_4A-5A-30A
 CA_2A-29A-30A
 CA_4A-29A-30A
 CA_2A-12A-66A
 CA_2A-5A-66A
 CA_12A-30A-66A
 CA_5A-30A-66A
 CA_12A-66A-66A
 CA_5A-66A-66A
 CA_2A-2A-66A
 CA_2A-66A-66A



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CA_30A-66A-66A
 CA_2A-30A-66A
 CA_2A-4A-12A
 CA_2A-4A-4A
 CA_2A-2A-4A
 CA_2C-66A
 CA_2A-66C
 CA_12A-66C
 CA_2A-4A-71A
 CA_2A-66A-71A
 CA_66A-66A-71A
 CA_66C-71A
 CA_66A-66C
 CA_4A-4A-71A
 CA_2A-2A-71A
 CA_48D
 CA_48C-48A
 CA_2A-48A-66A
 CA_2A-48A-48A
 CA_2A-48C
 CA_48A-48A-66A
 CA_48C-66A

b) Inter-band carrier aggregation requirements for uplink.

1. For Inter-band uplink CA mode, MTK Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from another 4G(LTE). Smart Transmit algorithm controls the total RF exposure of Inter-band uplink CA to not exceed FCC limit.

The Inter band Uplink CA as below table:

LTE Band/Antenna		B4		B5		B12	B14	B66	
		Ant2	Ant3	Ant1	Ant3	Ant1	Ant1	Ant2	Ant3
B2	Ant2		√	√		√	√		√
	Ant3			√		√	√		
B66	Ant2			√		√	√		
	Ant3			√		√	√		



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1.4.4 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.
- 3) This device uses the receiver to indicate whether the user is making a voice call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. A fixed level power reduction is applied for some frequency bands when the audio receiver is on.

The detailed power reduction information can be referred to Appendix E (Conducted RF Output Power).



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 941225 D01	3G SAR Measurement Procedures v03r01
KDB 941225 D05	SAR for LTE Devices v02r05
KDB 941225 D05A	LTE Rel.10 KDB Inquiry Sheet v01r02
KDB 941225 D06	Hotspot Mode SAR v02r01
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 616217 D04	SAR for laptop and tablets v01r02



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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:

* 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.

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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2 Laboratory Environment

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

Table 2: The Ambient Conditions



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3 SAR Measurements System Configuration

3.1 The SAR Measurement System

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

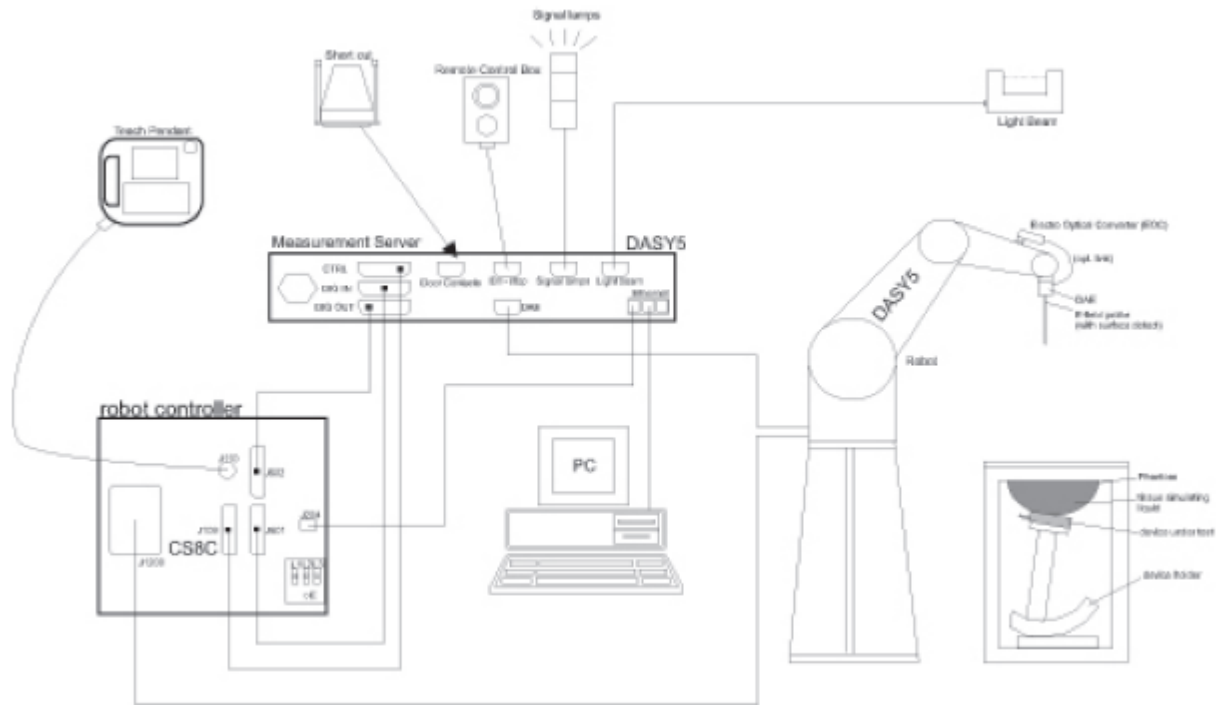
The DASY5 system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration




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

3.2 Isotropic E-field Probe EX3DV4

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




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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.

3.5 ELI Phantom

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

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

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



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



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3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

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

Step 2: Area scan

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

Step 3: Zoom scan

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

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

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



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		≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
		When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.		
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
	graded grid	$\Delta z_{Zoom}(1)$: 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
		$\Delta z_{Zoom}(n>1)$: 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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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 re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	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:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

With V_i = compensated signal of channel i ($i = x, y, z$)
 U_i = input signal of channel i ($i = x, y, z$)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

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

E-field probes:

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



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H-field probes:

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

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

Norm i = sensor sensitivity of channel i ($i = x, y, z$)
 [mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

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

H_i = 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.

$$SAR = (E_{tot}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

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

ϵ = equivalent tissue density in g/cm³

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

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

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 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 re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
 - 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
 - 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ 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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5 Description of Test Position

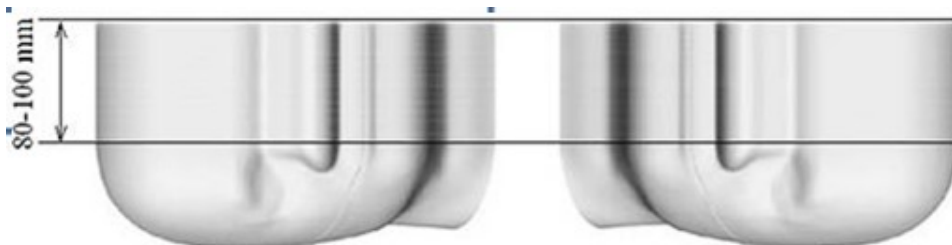
5.1 Head Exposure Condition

5.1.1 SAM Phantom Shape

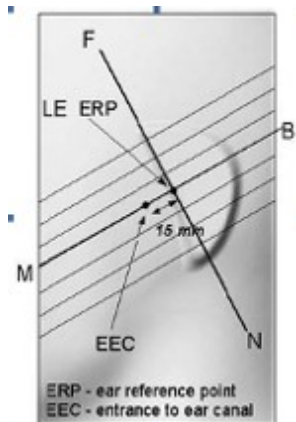


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

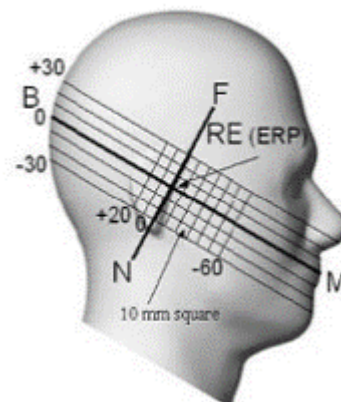
Note: The centre strip including the nose region has a different thickness tolerance.



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

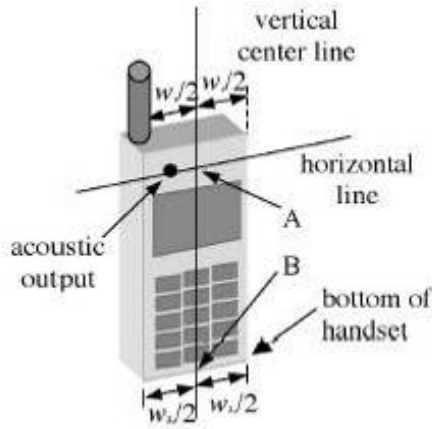


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

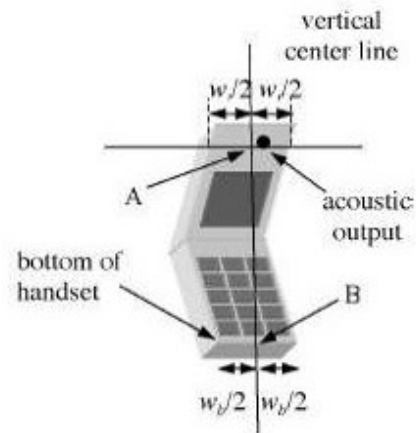


F-6. Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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

- 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.
- Translate the mobile phone box towards the phantom with the ear piece aligned with the line LE-RE until telephone touches the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the box until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



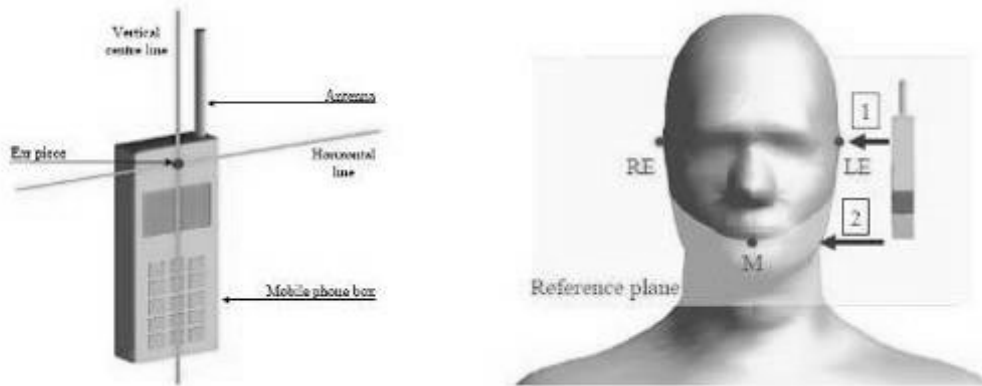
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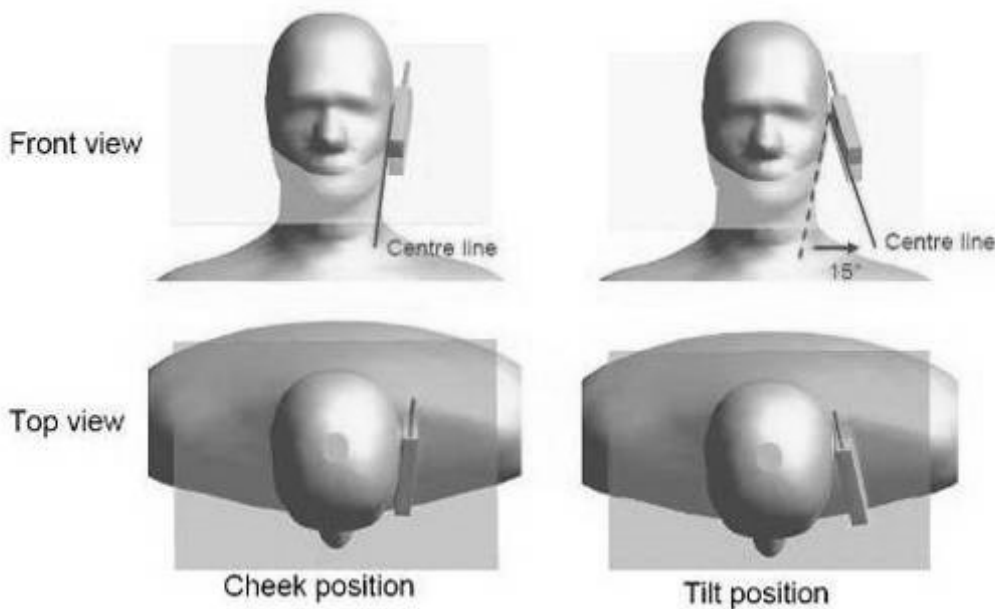
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5.1.4 Definition of the “tilted” position

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



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



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



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5.2 Body Exposure Condition

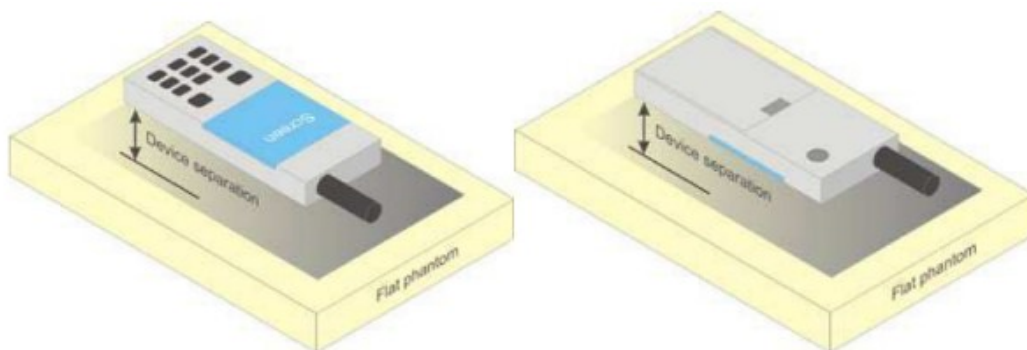
5.2.1 Body-worn accessory exposure conditions

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

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

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

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



F-11. Test positions for body-worn devices



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5.2.2 Wireless Router exposure conditions

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) 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 $\leq 25 \text{ mm}$ from that surface or edge, in direct contact with a flat phantom, for Product Specific 10-g SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, Product Specific 10-g SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

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

LTE B30 (Ant3):

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.300	0.09	17.24	20.80	2.270	0.681	Yes
Back side	10	QPSK 1_0	27710/2310	1:1	0.578	0.01	17.24	20.80	2.270	1.312	No
Left side	10	QPSK 1_0	27710/2310	1:1	0.047	0.06	17.24	20.80	2.270	0.107	Yes
Right side	10	QPSK 1_0	27710/2310	1:1	0.015	0.04	17.24	20.80	2.270	0.035	Yes
Top side	10	QPSK 1_0	27710/2310	1:1	0.645	-0.05	17.24	20.80	2.270	1.464	No
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	10	QPSK 25_25	27710/2310	1:1	0.338	0.09	17.19	20.80	2.296	0.776	Yes
Back side	10	QPSK 25_25	27710/2310	1:1	0.661	0.05	17.19	20.80	2.296	1.518	No
Left side	10	QPSK 25_25	27710/2310	1:1	0.054	0.04	17.19	20.80	2.296	0.123	Yes
Right side	10	QPSK 25_25	27710/2310	1:1	0.016	0.03	17.19	20.80	2.296	0.037	Yes
Top side	10	QPSK 25_25	27710/2310	1:1	0.758	-0.01	17.19	20.80	2.296	1.740	No
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Top side	10	QPSK 50_0	27710/2310	1:1	0.729	-0.06	17.17	20.80	2.307	1.682	No



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N30 (Ant3):

Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	10	QPSK 1_1	462000/2310	100%	0.346	0.07	18.46	22.30	2.421	0.838	Yes
Back side	10	QPSK 1_1	462000/2310	100%	0.735	0.03	18.46	22.30	2.421	1.779	No
Left side	10	QPSK 1_1	462000/2310	100%	0.052	0.09	18.46	22.30	2.421	0.125	Yes
Right side	10	QPSK 1_1	462000/2310	100%	0.016	-0.11	18.46	22.30	2.421	0.038	Yes
Top side	10	QPSK 1_1	462000/2310	100%	0.769	0.08	18.46	22.30	2.421	1.862	No
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	10	QPSK 12_6	462000/2310	100%	0.347	0.03	18.44	22.30	2.432	0.844	Yes
Back side	10	QPSK 12_6	462000/2310	100%	0.799	0.04	18.44	22.30	2.432	1.943	No
Left side	10	QPSK 12_6	462000/2310	100%	0.052	0.09	18.44	22.30	2.432	0.126	Yes
Right side	10	QPSK 12_6	462000/2310	100%	0.016	0.01	18.44	22.30	2.432	0.038	Yes
Top side	10	QPSK 12_6	462000/2310	100%	0.848	0.01	18.44	22.30	2.432	2.063	No
Top side-Repeated	10	QPSK 12_6	462000/2310	100%	0.833	0.06	18.44	22.30	2.432	2.026	No
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Back side	10	QPSK 24_0	462000/2310	100%	0.551	0.06	17.26	22.30	3.192	1.759	No
Top side	10	QPSK 24_0	462000/2310	100%	0.622	0.17	17.26	22.30	3.192	1.985	No

N41 (Ant1):

Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_1	518598/2592.99	77%	0.649	0.535	-0.14	21.72	26.00	2.679	0.931	Yes
Back side	100	QPSK 1_1	518598/2592.99	77%	0.649	0.722	0.17	21.72	26.00	2.679	1.256	No
Left side	100	QPSK 1_1	518598/2592.99	77%	0.649	0.067	-0.13	21.72	26.00	2.679	0.117	Yes
Right side	100	QPSK 1_1	518598/2592.99	77%	0.649	0.195	0.03	21.72	26.00	2.679	0.339	Yes
Bottom side	100	QPSK 1_1	518598/2592.99	77%	0.649	0.986	-0.18	21.72	26.00	2.679	1.716	No
Bottom side-Repeated	100	QPSK 1_1	518598/2592.99	77%	0.649	0.921	-0.19	21.72	26.00	2.679	1.603	No
Back side	100	QPSK 1_1	509202/2546.01	77%	0.649	0.590	0.03	21.68	26.00	2.704	1.036	Yes
Back side	100	QPSK 1_1	513900/2569.5	77%	0.649	0.663	0.05	21.67	26.00	2.710	1.167	Yes
Back side	100	QPSK 1_1	523302/2616.51	77%	0.649	0.668	0.15	21.70	26.00	2.692	1.168	Yes
Back side	100	QPSK 1_1	528000/2640	77%	0.649	0.792	0.02	21.67	26.00	2.710	1.394	No
Bottom side	100	QPSK 1_1	509202/2546.01	77%	0.649	0.770	-0.02	21.68	26.00	2.704	1.352	No
Bottom side	100	QPSK 1_1	513900/2569.5	77%	0.649	0.920	-0.09	21.67	26.00	2.710	1.619	No
Bottom side	100	QPSK 1_1	523302/2616.51	77%	0.649	0.960	-0.14	21.70	26.00	2.692	1.678	No
Bottom side	100	QPSK 1_1	528000/2640	77%	0.649	0.910	-0.06	21.67	26.00	2.710	1.601	No
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	518598/2592.99	77%	0.649	0.558	0.06	20.95	26.00	3.199	1.159	Yes
Back side	100	QPSK 135_69	518598/2592.99	77%	0.649	0.787	-0.08	20.95	26.00	3.199	1.635	No
Left side	100	QPSK 135_69	518598/2592.99	77%	0.649	0.083	0.11	20.95	26.00	3.199	0.173	Yes
Right side	100	QPSK 135_69	518598/2592.99	77%	0.649	0.219	-0.17	20.95	26.00	3.199	0.455	Yes
Bottom side	100	QPSK 135_69	518598/2592.99	77%	0.649	0.969	-0.09	20.95	26.00	3.199	2.013	No
Front side	100	QPSK 135_69	509202/2546.01	77%	0.649	0.486	0.05	20.91	26.00	3.228	1.019	Yes
Front side	100	QPSK 135_69	513900/2569.5	77%	0.649	0.558	-0.03	20.86	26.00	3.266	1.183	Yes



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Front side	100	QPSK 135_69	523302/2616.51	77%	0.649	0.573	-0.08	20.93	26.00	3.214	1.195	Yes
Front side	100	QPSK 135_69	528000/2640	77%	0.649	0.558	0.03	20.89	26.00	3.243	1.175	Yes
Back side	100	QPSK 135_69	509202/2546.01	77%	0.649	0.712	0.09	20.91	26.00	3.228	1.493	No
Back side	100	QPSK 135_69	513900/2569.5	77%	0.649	0.721	0.15	20.86	26.00	3.266	1.529	No
Back side	100	QPSK 135_69	523302/2616.51	77%	0.649	0.676	0.04	20.93	26.00	3.214	1.410	No
Back side	100	QPSK 135_69	528000/2640	77%	0.649	0.792	0.04	20.89	26.00	3.243	1.668	No
Bottom side	100	QPSK 135_69	509202/2546.01	77%	0.649	0.931	0.06	20.91	26.00	3.228	1.952	No
Bottom side	100	QPSK 135_69	513900/2569.5	77%	0.649	0.934	-0.09	20.86	26.00	3.266	1.981	No
Bottom side	100	QPSK 135_69	523302/2616.51	77%	0.649	0.851	-0.02	20.93	26.00	3.214	1.776	No
Bottom side	100	QPSK 135_69	528000/2640	77%	0.649	0.951	0.13	20.89	26.00	3.243	2.003	No
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												
Back side	100	QPSK 270_0	509202/2546.01	77%	0.649	0.505	-0.13	20.33	26.00	3.690	1.210	No
Bottom side	100	QPSK 270_0	509202/2546.01	77%	0.649	0.865	0.07	20.33	26.00	3.690	2.073	No

N41 (Ant3):

Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.241	0.01	17.71	21.00	2.133	0.534	Yes
Back side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.576	-0.06	17.71	21.00	2.133	1.277	No
Left side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.113	-0.11	17.71	21.00	2.133	0.250	Yes
Right side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.001	0.03	17.71	21.00	2.133	0.002	Yes
Top side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.796	0.07	17.71	21.00	2.133	1.764	No
Back side	100	QPSK 1_137	513900/2569.5	77%	1.039	0.560	-0.05	17.59	21.00	2.193	1.276	No
Back side	100	QPSK 1_137	518598/2592.99	77%	1.039	0.576	0.00	17.69	21.00	2.143	1.282	No
Back side	100	QPSK 1_137	523302/2616.51	77%	1.039	0.527	0.04	17.52	21.00	2.228	1.220	No
Back side	100	QPSK 1_137	528000/2640	77%	1.039	0.475	-0.03	17.30	21.00	2.344	1.157	Yes
Top side	100	QPSK 1_137	513900/2569.5	77%	1.039	0.734	-0.14	17.59	21.00	2.193	1.673	No
Top side	100	QPSK 1_137	518598/2592.99	77%	1.039	0.831	-0.16	17.69	21.00	2.143	1.850	No
Top side	100	QPSK 1_137	523302/2616.51	77%	1.039	0.646	-0.08	17.52	21.00	2.228	1.496	No
Top side	100	QPSK 1_137	528000/2640	77%	1.039	0.621	-0.17	17.30	21.00	2.344	1.513	No
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.252	0.01	17.62	21.00	2.178	0.570	Yes
Back side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.652	0.00	17.62	21.00	2.178	1.475	No
Left side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.112	0.07	17.62	21.00	2.178	0.254	Yes
Right side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.000	0.10	17.62	21.00	2.178	0.000	Yes
Top side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.786	-0.01	17.62	21.00	2.178	1.779	No
Back side	100	QPSK 135_69	513900/2569.5	77%	1.039	0.575	-0.01	17.48	21.00	2.249	1.343	No
Back side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.588	-0.17	17.61	21.00	2.183	1.333	No
Back side	100	QPSK 135_69	523302/2616.51	77%	1.039	0.546	0.10	17.57	21.00	2.203	1.250	No
Back side	100	QPSK 135_69	528000/2640	77%	1.039	0.487	-0.15	17.49	21.00	2.244	1.136	Yes
Top side	100	QPSK 135_69	513900/2569.5	77%	1.039	0.802	0.17	17.48	21.00	2.249	1.874	No
Top side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.873	0.07	17.61	21.00	2.183	1.980	No
Top side-Repeated	100	QPSK 135_69	518598/2592.99	77%	1.039	0.830	-0.05	17.61	21.00	2.183	1.883	No
Top side	100	QPSK 135_69	523302/2616.51	77%	1.039	0.820	0.09	17.57	21.00	2.203	1.876	No
Top side	100	QPSK 135_69	528000/2640	77%	1.039	0.607	0.06	17.49	21.00	2.244	1.415	No
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												
Back side	100	QPSK 270_0	509202/2546.01	77%	1.039	0.503	-0.08	16.68	21.00	2.704	1.413	No
Top side	100	QPSK 270_0	509202/2546.01	77%	1.039	0.650	0.10	16.68	21.00	2.704	1.827	No



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N77 (Ant5):
3450-3550:

Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_137	633334/3500	77%	1.039	0.467	0.16	20.66	23.00	1.714	0.831	Yes
Back side	100	QPSK 1_137	633334/3500	77%	1.039	0.618	-0.05	20.66	23.00	1.714	1.100	Yes
Left side	100	QPSK 1_137	633334/3500	77%	1.039	0.850	0.02	20.66	23.00	1.714	1.514	No
Top side	100	QPSK 1_137	633334/3500	77%	1.039	0.180	-0.02	20.66	23.00	1.714	0.321	Yes
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	633334/3500	77%	1.039	0.500	0.07	20.78	23.00	1.667	0.867	Yes
Back side	100	QPSK 135_69	633334/3500	77%	1.039	0.633	-0.13	20.78	23.00	1.667	1.096	Yes
Left side	100	QPSK 135_69	633334/3500	77%	1.039	0.878	0.15	20.78	23.00	1.667	1.521	No
Left side-Repeated	100	QPSK 135_69	633334/3500	77%	1.039	0.860	0.05	20.78	23.00	1.667	1.490	No
Top side	100	QPSK 135_69	633334/3500	77%	1.039	0.187	-0.06	20.78	23.00	1.667	0.324	Yes
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												
Back side	100	QPSK 270_0	633334/3500	77%	1.039	0.467	-0.02	19.59	23.00	2.193	1.064	Yes
Left side	100	QPSK 270_0	633334/3500	77%	1.039	0.696	0.07	19.59	23.00	2.193	1.586	No

WIFI 5G (Ant7):

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data ECI 3 of U-NII-1 (Separate 10mm)											
Front side	802.11a	44/5220	96.86%	1.032	0.078	0.02	13.86	20.00	4.111	0.331	Yes
Back side	802.11a	44/5220	96.86%	1.032	0.322	0.00	13.86	20.00	4.111	1.367	No
Right side	802.11a	44/5220	96.86%	1.032	0.246	-0.04	13.86	20.00	4.111	1.044	Yes
Top side	802.11a	44/5220	96.86%	1.032	0.301	0.09	13.86	20.00	4.111	1.278	No
Hotspot Test data ECI 3 of U-NII-3 (Separate 10mm)											
Front side	802.11a	153/5765	96.86%	1.032	0.105	0.01	10.46	17.00	4.508	0.489	Yes
Back side	802.11a	153/5765	96.86%	1.032	0.262	0.09	10.46	17.00	4.508	1.219	No
Right side	802.11a	153/5765	96.86%	1.032	0.158	0.11	10.46	17.00	4.508	0.735	Yes
Top side	802.11a	153/5765	96.86%	1.032	0.237	0.05	10.46	17.00	4.508	1.103	Yes

WIFI 5G (Ant9):

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data ECI 3 of U-NII-1 (Separate 10mm)											
Front side	802.11a	44/5220	96.86%	1.032	0.082	0.05	18.96	20.00	1.271	0.108	Yes
Back side	802.11a	44/5220	96.86%	1.032	0.245	-0.07	18.96	20.00	1.271	0.321	Yes
Right side	802.11a	44/5220	96.86%	1.032	0.215	0.06	18.96	20.00	1.271	0.282	Yes
Top side	802.11a	44/5220	96.86%	1.032	0.128	-0.16	18.96	20.00	1.271	0.168	Yes
Hotspot Test data ECI 3 of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	96.86%	1.032	0.097	0.03	12.97	19.50	4.498	0.450	Yes
Back side	802.11a	157/5785	96.86%	1.032	0.282	-0.07	12.97	19.50	4.498	1.309	No
Right side	802.11a	157/5785	96.86%	1.032	0.176	0.08	12.97	19.50	4.498	0.817	Yes
Top side	802.11a	157/5785	96.86%	1.032	0.087	-0.02	12.97	19.50	4.498	0.404	Yes



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WIFI 5G MIMO:

Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data ECI 3 of U-NII-1 (Separate 10mm)											
Front side	802.11n-HT20	44/5220	96.65%	1.035	0.081	0.06	16.71	22.00	3.381	0.283	Yes
Back side	802.11n-HT20	44/5220	96.65%	1.035	0.319	-0.03	16.71	22.00	3.381	1.116	Yes
Right side	802.11n-HT20	44/5220	96.65%	1.035	0.246	-0.07	16.71	22.00	3.381	0.860	Yes
Top side	802.11n-HT20	44/5220	96.65%	1.035	0.291	0.01	16.71	22.00	3.381	1.018	Yes
Hotspot Test data ECI 3 of U-NII-3 (Separate 10mm)											
Front side	802.11n-HT20	157/5785	96.65%	1.035	0.102	-0.08	14.40	20.00	3.631	0.383	Yes
Back side	802.11n-HT20	157/5785	96.65%	1.035	0.226	-0.05	14.40	20.00	3.631	0.849	Yes
Right side	802.11n-HT20	157/5785	96.65%	1.035	0.139	0.01	14.40	20.00	3.631	0.522	Yes
Top side	802.11n-HT20	157/5785	96.65%	1.035	0.218	0.07	14.40	20.00	3.631	0.819	Yes



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6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	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			Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose		
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 3: Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) 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.

Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue (±5%)		Deviation (Within ±5%)		Liquid Temp. (°C)	Test Date
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)		
750 Head	750	42.720	0.886	41.90	0.89	1.96%	-0.45%	22.2	2023/9/14
750 Head	750	43.798	0.880	41.90	0.89	4.53%	-1.12%	22.3	2023/9/16
835 Head	835	43.210	0.891	41.50	0.90	4.12%	-1.00%	22.1	2023/9/13
835 Head	835	43.345	0.913	41.50	0.90	4.45%	1.44%	22.1	2023/9/15
835 Head	835	43.353	0.941	41.50	0.90	4.47%	4.56%	22.3	2023/9/19
1750 Head	1750	40.772	1.331	40.10	1.37	1.68%	-2.85%	21.7	2023/9/10
1750 Head	1750	40.326	1.310	40.10	1.37	0.56%	-4.38%	22.2	2023/9/16
1750 Head	1750	40.806	1.337	40.10	1.37	1.76%	-2.41%	21.5	2023/9/28
1750 Head	1750	40.670	1.393	40.10	1.37	1.42%	1.68%	21.5	2023/9/29
1900 Head	1900	40.580	1.424	40.00	1.40	1.45%	1.71%	21.8	2023/9/14
1900 Head	1900	39.584	1.413	40.00	1.40	-1.04%	0.93%	21.8	2023/9/26
1900 Head	1900	39.482	1.423	40.00	1.40	-1.30%	1.64%	22.1	2023/9/28
2300 Head	2300	38.525	1.690	39.50	1.67	-2.47%	1.20%	22.4	2023/9/27
2300 Head	2300	39.617	1.688	39.50	1.67	0.30%	1.08%	22.1	2023/9/28
2450 Head	2450	38.744	1.855	39.20	1.80	-1.16%	3.06%	22.2	2023/10/8
2600 Head	2600	38.183	1.977	39.00	1.96	-2.09%	0.87%	22.3	2023/10/9
2600 Head	2600	38.205	2.030	39.00	1.96	-2.04%	3.57%	22.1	2023/10/11
3500 Head	3500	37.775	2.844	37.90	2.91	-0.33%	-2.27%	22.1	2023/10/5
3500 Head	3500	37.875	2.864	37.90	2.91	-0.07%	-1.58%	22.3	2023/10/8
3700 Head	3700	37.059	3.034	37.70	3.12	-1.70%	-2.76%	22.1	2023/10/5
3700 Head	3700	36.943	3.040	37.70	3.12	-2.01%	-2.56%	22.3	2023/10/9
3900 Head	3900	36.233	3.252	37.50	3.32	-3.38%	-2.05%	22.0	2023/10/10
5250 Head	5250	35.455	4.611	35.90	4.66	-1.24%	-1.05%	21.3	2023/10/11
5600 Head	5600	34.782	5.077	35.50	5.07	-2.02%	0.14%	21.4	2023/10/12
5750 Head	5750	34.411	5.257	35.40	5.22	-2.79%	0.71%	21.6	2023/10/13

Table 4: Measurement result of Tissue electric parameters



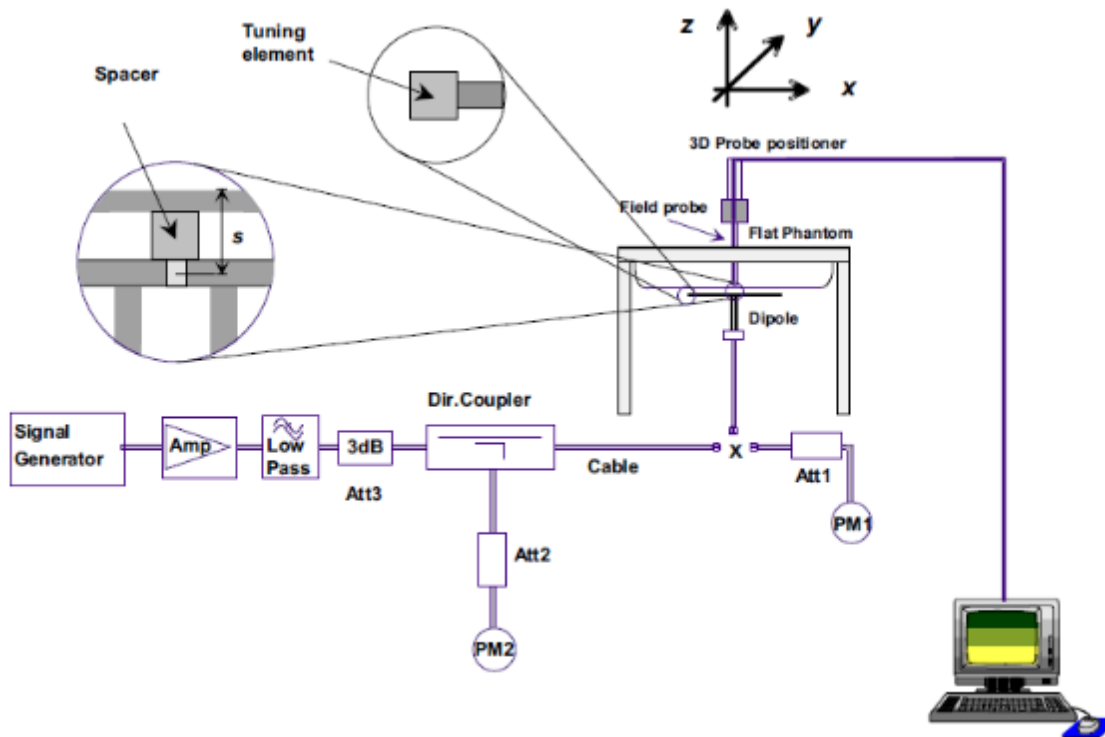
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6.2 SAR System Check

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



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



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6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D750V3	Head	2.02	1.43	8.08	5.72	8.37	5.53	-3.46%	3.44%	22.2	2023/9/14
D750V3	Head	2.06	1.46	8.24	5.84	8.37	5.53	-1.55%	5.61%	22.3	2023/9/16
D835V2	Head	2.49	1.62	9.96	6.48	9.53	6.29	4.51%	3.02%	22.1	2023/9/13
D835V2	Head	2.34	1.50	9.36	6.00	9.53	6.29	-1.78%	-4.61%	22.1	2023/9/15
D835V2	Head	2.37	1.67	9.48	6.68	9.53	6.29	-0.52%	6.20%	22.3	2023/9/19
D1750V2	Head	9.26	4.93	37.04	19.72	36.60	19.30	1.20%	2.18%	21.7	2023/9/10
D1750V2	Head	9.21	4.88	36.84	19.52	36.60	19.30	0.66%	1.14%	22.2	2023/9/16
D1750V2	Head	8.70	4.66	34.80	18.64	36.60	19.30	-4.92%	-3.42%	21.5	2023/9/28
D1750V2	Head	9.24	4.92	36.96	19.68	36.60	19.30	0.98%	1.97%	21.5	2023/9/29
D1900V2	Head	10.1	5.25	40.40	21.00	39.50	20.60	2.28%	1.94%	21.8	2023/9/14
D1900V2	Head	10.60	5.45	42.40	21.80	39.50	20.60	7.34%	5.83%	21.8	2023/9/26
D1900V2	Head	9.98	5.25	39.92	21.00	39.50	20.60	1.06%	1.94%	22.1	2023/9/28
D2300V2	Head	12.10	5.91	48.40	23.64	48.70	23.30	-0.62%	1.46%	22.4	2023/9/27
D2300V2	Head	12.10	5.91	48.40	23.64	48.70	23.30	-0.62%	1.46%	22.1	2023/9/28
D2450V2	Head	13.50	6.20	54.00	24.80	52.20	24.30	3.45%	2.06%	22.2	2023/10/8
D2600V2	Head	14.90	6.56	59.60	26.24	57.70	25.80	3.29%	1.71%	22.3	2023/10/9
D2600V2	Head	15.30	6.73	61.20	26.92	57.70	25.80	6.07%	4.34%	22.1	2023/10/11
Validation Kit		Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D3500V2	Head(3.5GHz)	6.90	2.63	69.00	26.30	65.80	25.70	4.86%	2.33%	22.1	2023/10/5
D3500V2	Head(3.5GHz)	6.80	2.61	68.00	26.10	65.80	25.70	3.34%	1.56%	22.3	2023/10/8
D3700V2	Head(3.7GHz)	7.09	2.62	70.90	26.20	66.10	24.70	7.26%	6.07%	22.1	2023/10/5
D3700V2	Head(3.7GHz)	6.96	2.58	69.60	25.80	66.10	24.70	5.30%	4.45%	22.3	2023/10/9
D3900V2	Head(3.9GHz)	6.99	2.47	69.90	24.70	66.70	23.80	4.80%	3.78%	22.0	2023/10/10
D5GHzV2	Head(5.25GHz)	7.84	2.23	78.40	22.30	77.30	22.10	1.42%	0.90%	21.3	2023/10/11
D5GHzV2	Head(5.6GHz)	8.19	2.32	81.90	23.20	81.30	23.10	0.74%	0.43%	21.4	2023/10/12
D5GHzV2	Head(5.75GHz)	8.23	2.32	82.30	23.20	77.10	21.30	6.74%	8.92%	21.6	2023/10/13

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 3G SAR Test Reduction Procedure

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

7.2 Operation Configurations

7.2.1 GSM Test Configuration

SAR tests for GSM 850 and GSM 1900, a communication link is set up with a base station by air link. Using Radio Communication Analyzer, the power lever is set to "5" and "0" in SAR of GSM 850 and GSM 1900. The tests in the band of GSM 850 and GSM 1900 are performed in the mode of GPRS/EGPRS function. Since the GPRS class is 12 for this EUT, it has at most 4 timeslots in uplink and at most 4 timeslots in downlink, the maximum total timeslot is 5. The EGPRS class is 12 for this EUT, it has at most 4 timeslots in uplink, and at most 4 timeslots in downlink, the maximum total timeslot is 5.

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

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

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



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

4) . HSDPA / HSUPA / DC-HSDPA

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

a) HSDPA

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



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Sub-test	β_c	Bd	$\beta_d(\text{SF})$	β_c/β_d	β_{hs}	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: ΔACK , ΔNACK and $\Delta\text{CQI} = 8$ Ahs = $\beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 Note2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1.A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and $\Delta\text{NACK} = 8$ (Ahs = 30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta\text{CQI} = 7$ (Ahs = 24/15) with $\beta_{hs} = 24/15 * \beta_c$.
 Note3: 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.

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

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

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



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

Table 7: HSDPA UE category

b) HSUPA

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



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Sub-test ^c	β_c ^c	β_d ^c	β_d (SF) ^c	β_c/β_d ^c	β_{hs} ⁽¹⁾ ^c	β_{ec} ^c	β_{ed} ^c	β_c ^c (SF) ^c	β_{ed} ^c (code) ^c	CM ⁽²⁾ ^c (dB) ^c	MP R ^c (dB) ^c	AG ⁽⁴⁾ Index ^c	E-TFC I ^c
1 ^c	11/15 ⁽³⁾ ^c	15/15 ⁽³⁾ ^c	64 ^c	11/15 ⁽³⁾ ^c	22/15 ^c	209/225 ^c	1039/225 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	20 ^c	75 ^c
2 ^c	6/15 ^c	15/15 ^c	64 ^c	6/15 ^c	12/15 ^c	12/15 ^c	94/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	12 ^c	67 ^c
3 ^c	15/15 ^c	9/15 ^c	64 ^c	15/9 ^c	30/15 ^c	30/15 ^c	$\beta_{ed1}:47/15$ ^c $\beta_{ed2}:47/15$ ^c	4 ^c	2 ^c	2.0 ^c	1.0 ^c	15 ^c	92 ^c
4 ^c	2/15 ^c	15/15 ^c	64 ^c	2/15 ^c	4/15 ^c	2/15 ^c	56/75 ^c	4 ^c	1 ^c	3.0 ^c	2.0 ^c	17 ^c	71 ^c
5 ^c	15/15 ⁽⁴⁾ ^c	15/15 ⁽⁴⁾ ^c	64 ^c	15/15 ⁽⁴⁾ ^c	30/15 ^c	24/15 ^c	134/15 ^c	4 ^c	1 ^c	1.0 ^c	0.0 ^c	21 ^c	81 ^c

Note 1: $\Delta ACK, \Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs}/\beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$
 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^c
 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 $\beta_d = 15/15$ ^c
 Note 4 : For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$ ^c
 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^c
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.^c

Table 8: Subtests for UMTS Release 6 HSUPA

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

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

Table 9: HSUPA UE category



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c) DC-HSDPA

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

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

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

Table E.5.0: Levels for HSDPA connection setup

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

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

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

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

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

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

Note:

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



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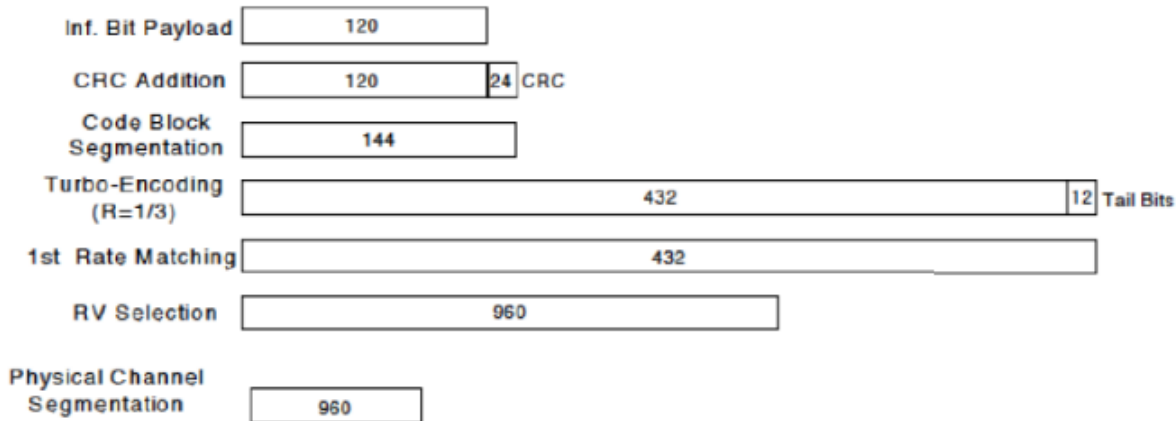


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

Sub-test ^o	β_c ^o	β_d ^o	$\beta_d \cdot (SF)$ ^o	β_c / β_d ^o	$\beta_{hs} (1)$ ^o	CM(dB)(2) ^o	MPR (dB) ^o
1 ^o	2/15 ^o	15/15 ^o	64 ^o	2/15 ^o	4/15 ^o	0.0 ^o	0 ^o
2 ^o	12/15(3) ^o	15/15(3) ^o	64 ^o	12/15(3) ^o	24/15 ^o	1.0 ^o	0 ^o
3 ^o	15/15 ^o	8/15 ^o	64 ^o	15/8 ^o	30/15 ^o	1.5 ^o	0.5 ^o
4 ^o	15/15 ^o	4/15 ^o	64 ^o	15/4 ^o	30/15 ^o	1.5 ^o	0.5 ^o

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 8$ $A_{hs} = \beta_{hs} / \beta_c = 30/15$ $\beta_{hs} = 30/15 * \beta_c$ ^o
 Note 2: CM=1 for $\beta_c / \beta_d = 12/15$, $\beta_{hs} / \beta_c = 24/15$. For all other combinations of DPDCH, DPCCCH 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.^o
 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 $\beta_d = 15/15$ ^o

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

Note:

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



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d) HSPA+

Per KDB941225D01, SAR is required for Rel. 7 HSPA+ when SAR is required for Rel. 6 HSPA; otherwise, the 3G SAR test reduction procedure is applied to (uplink) HSPA+ with 12.2 kbps RMC as the primary mode. Power is measured for HSPA+ that supports uplink 16 QAM according to configurations in Table C.11.1.4 of 3GPP TS 34.121-1 to determine SAR test reduction.

■ **Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM**

Sub-test	β_{c} (Note3)	β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
<p>Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{\frac{1}{2}} = 30/15 * \beta_c$.</p> <p>Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).</p> <p>Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.</p> <p>Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.</p> <p>Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.</p>											



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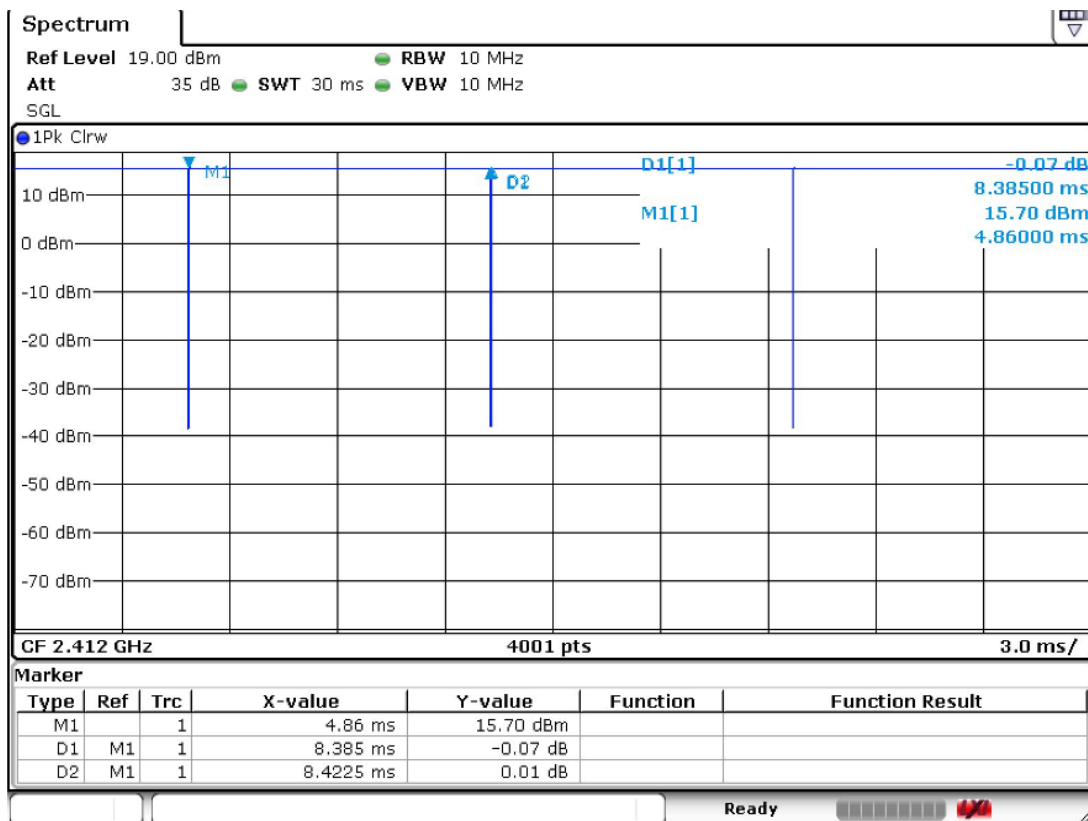
7.2.3 WiFi Test Configuration

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

7.2.3.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=8.385/8.4225=99.55%

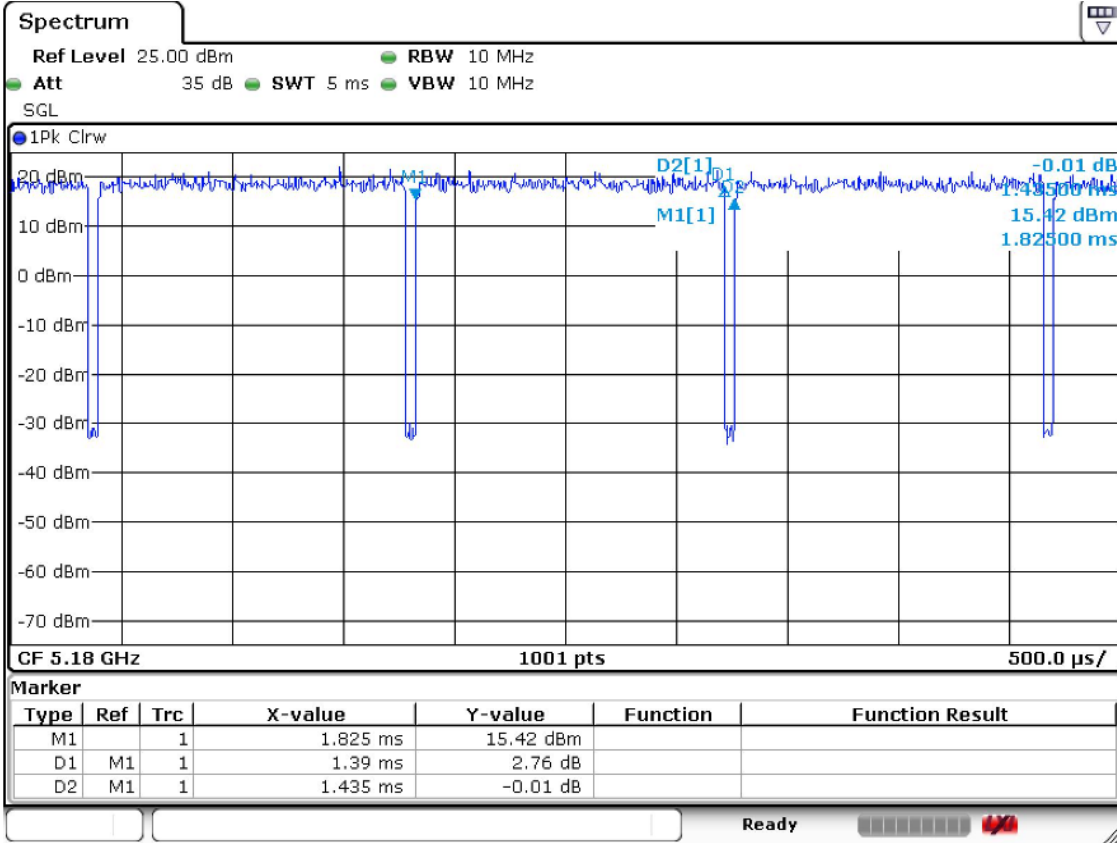


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2) Wi-Fi 5GHz 802.11a:
 Duty cycle=1.39/1.435=96.86%

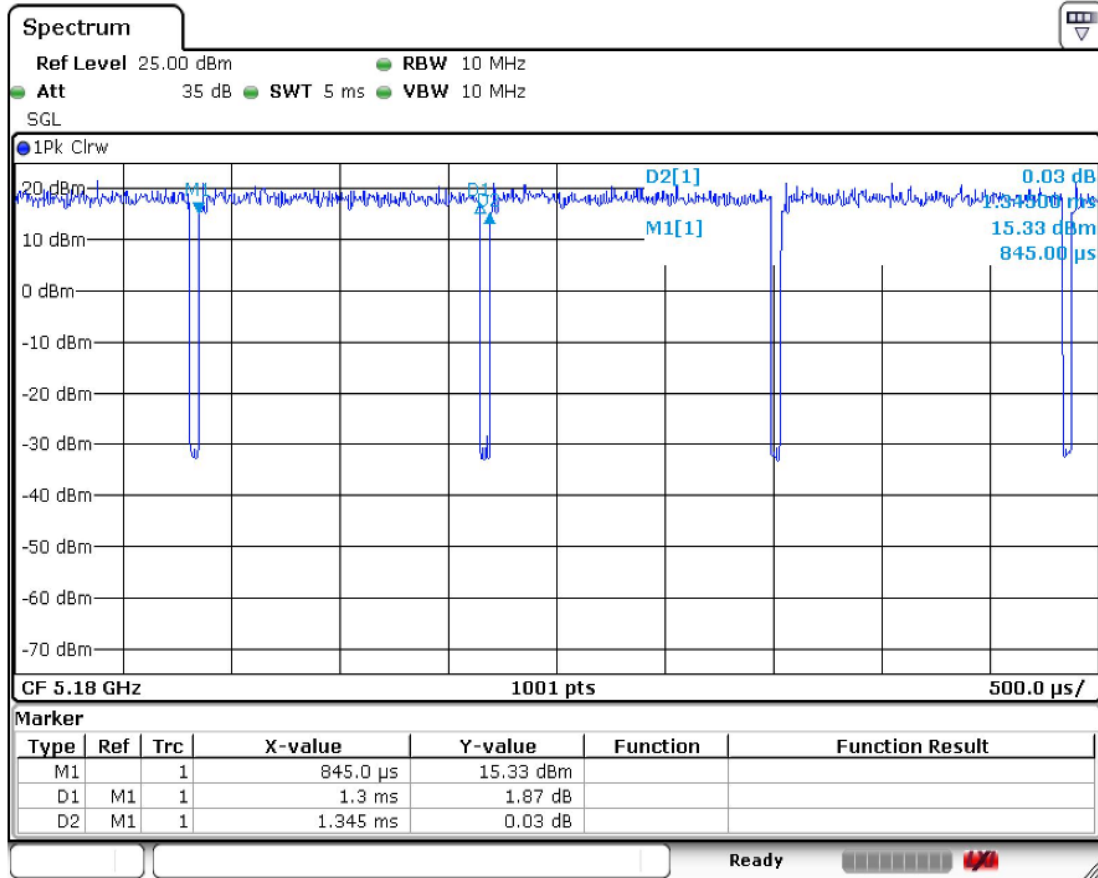


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Wi-Fi 5GHz 802.11n-HT20:
 Duty cycle=1.3/1.345=96.65%



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7.2.3.2 Initial Test Position SAR Test Reduction Procedure

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

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

7.2.3.3 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration.

For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

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

7.2.3.4 Subsequent Test Configuration Procedures

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

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



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



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7.2.3.5 2.4 GHz WiFi SAR Procedures

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

- **802.11b DSSS SAR Test Requirements**

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

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

- **2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements**

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

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

- **SAR Test Requirements for OFDM configurations**

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



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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.
- 2) 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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• **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.

- 1) 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.
 - 3) 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.
 - 4) 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.
- a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) 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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Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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

Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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

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



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A) Spectrum Plots for RB Configurations

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

B) MPR

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

Modulation	Channel bandwidth/Transmission bandwidth						MPR (dB)
	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM	≥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 > ½ 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. In this report we have checked and ensured power in higher bands are equal to or higher than the lower bands for each antenna head and body with matching channel bandwidth.



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7.2.5 NR Band Test Configuration

1. NR Band n2/n5/n25/n26/n30/n41/n48/n66/n70/n71/n77 support SA mode and n2/n5/n41/n66/n71/n77 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna	LTE Band 2		LTE Band 5		LTE Band 12	LTE Band 14	LTE Band 30		LTE Band 66	
	Ant2	Ant3	Ant1	Ant3	Ant1	Ant1	Ant1	Ant3	Ant2	Ant3
n2	Ant2		√		√	√		√		√
	Ant3		√		√	√				
n5	Ant1	√		√				√		√
n41	Ant1									
	Ant3	√							√	
	Ant4									
n66	Ant2	√			√	√		√		√
	Ant3				√	√				
n71	Ant1	√								√
n77	Ant2									
	Ant4									
	Ant5	√		√		√	√	√	√	
	Ant6									

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

Band		n2	n5	n25	n26	n30	n41(PC2)	n41(PC3)	n48	n66	n70	n71	n77(PC2)	n77(PC3)
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Max Duty Cycle	100%	100%	100%	100%	100%	50%	80%	80%	100%	100%	100%	50%



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Band	SCS	Bandwidth												
		5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz	100MHz
n2	15kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n25	15kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n26	15kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n30	15kHz	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n41	15kHz	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
n48	15kHz	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n66	15kHz	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
n70	15kHz	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n71	15kHz	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	15kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A
	30kHz	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
- 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 1/2 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.
 - 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 1/2 dB higher than the same configuration in the largest supported bandwidth.
 - 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.
 - 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
 - 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.
 - PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not 1/2 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.



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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.

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.

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	≤ 3.5 ¹	≤ 1.2 ¹	≤ 0.2 ¹
		≤ 0.5 ²	≤ 0.5 ²	0 ²
	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
CP-OFDM	256 QAM	≤ 4.5		
	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

5. For FDD NR Band operation does not have the fixed UL/DL frame structure, but during the transmitting/receiving it can be operated in the slot structure of 100% UL duty cycle, we are proposing the conservative way to evaluate SAR at 100% duty cycle. For the purpose of test NR Band standalone SAR, and also test SAR level at 100% TX duty cycle.

6. For 5G NR Sub6GHz SISO Mode, SAR Test plan as below:

1) For 5G NR NSA mode with the same UL EN_DC combination but different DL EN_DC combinations, eg: EN-DC configuration: UL DC_7A_n5 (UL two bands) with DL DC_7C_n5 (DL two bands)

a) The UL EN-DC configuration, including the Tx antenna configuration, RF path, the channel bandwidth and other operating parameters are the same.

b) The maximum output power, including tolerance, for the UL EN-DC configuration with DL two or more bands must be ≤ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

8. When the reported SAR for and EN DC configuration is greater than 1.2 W/kg, EN DC SAR is also required for other NR based test channels.

9. EN DC SAR is also required for standalone NR configurations greater than 1.2 W/kg when scaled to the EN DC power level.



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8 Test Result

8.1 Measurement of RF conducted Power

The detailed conducted power can be referred to Appendix E.

Note:

- 1) . 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.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.
 The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
 The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.
- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.



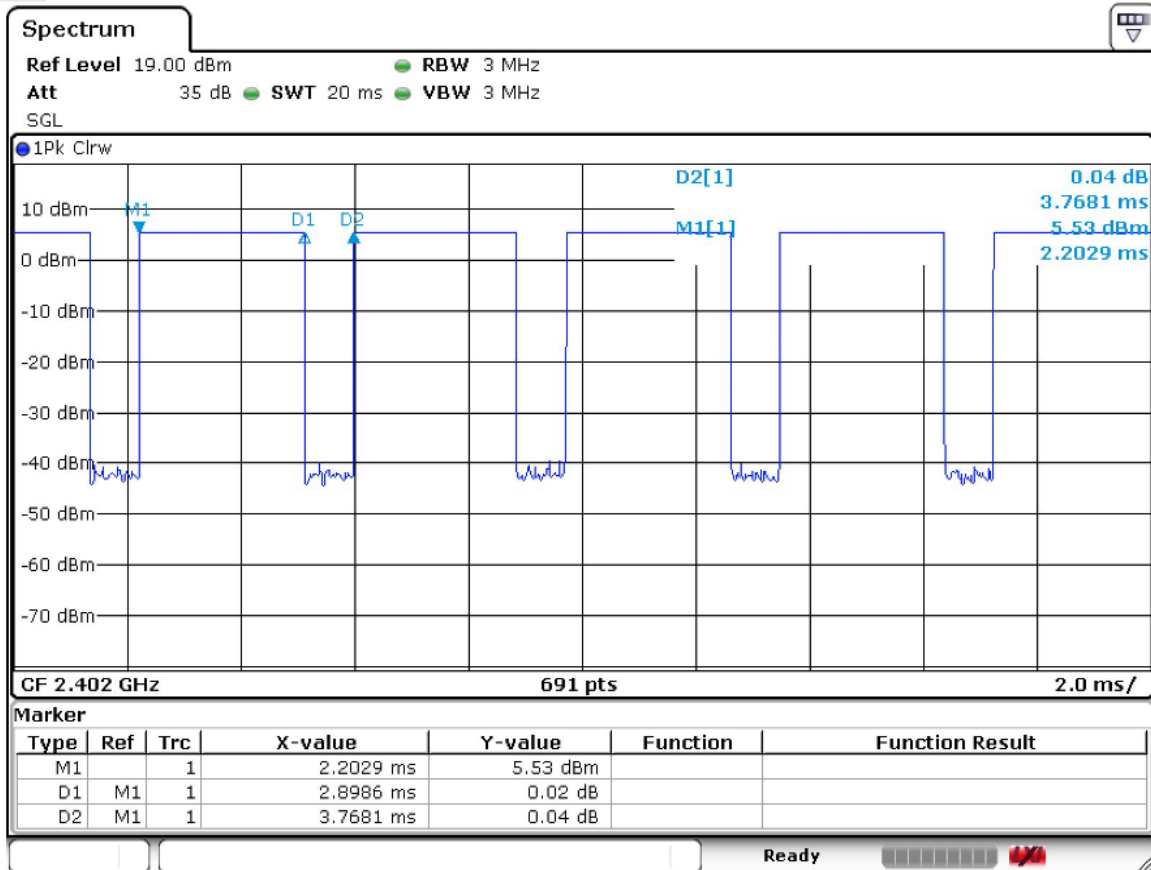
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2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.

9) . The conducted power of BT is measured with RMS detector. BT DH5 Duty Cycle=2.8986/3.7681=76.92%



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8.2 Measurement of SAR Data

Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.
- 2) Per KDB447498 D04, 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:
 - $\leq 0.8\text{W/kg}$ for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is $\leq 100\text{MHz}$.
 - $\leq 0.6\text{ W/kg}$ or 1.5 W/kg , for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
 - $\leq 0.4\text{ W/kg}$ or 1.0 W/kg , for 1-g or 10-g respectively, when the transmission band is $\geq 200\text{ MHz}$.

WiFi 2.4G:

- 1) When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- 1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is $\leq 1.2\text{ W/kg}$, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

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



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8.2.1 SAR Result of GSM850

Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4										
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.216	0.06	27.18	28.30	1.294	0.280	22.1
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.108	0.06	27.18	28.30	1.294	0.140	22.1
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.267	0.06	27.18	28.30	1.294	0.346	22.1
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.156	0.05	27.18	28.30	1.294	0.202	22.1
Body worn Test data ECI 1 (Separate 15mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.197	0.07	27.18	28.30	1.294	0.255	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.226	-0.09	27.18	28.30	1.294	0.292	22.1
Hotspot Test data ECI 3 (Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.431	0.07	27.18	28.30	1.294	0.558	22.1
Back side	GPRS 4TS	190/836.6	1:2.075	0.495	-0.02	27.18	28.30	1.294	0.641	22.1
Left side	GPRS 4TS	190/836.6	1:2.075	0.176	0.12	27.18	28.30	1.294	0.228	22.1
Right side	GPRS 4TS	190/836.6	1:2.075	0.316	0.08	27.18	28.30	1.294	0.409	22.1
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.331	0.12	27.18	28.30	1.294	0.428	22.1

Table 11: SAR of GSM850 for Head and Body.



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8.2.2 SAR Result of GSM1900

Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4										
Left cheek	GPRS 4TS	661/1880	1:2.075	0.175	-0.07	23.76	25.30	1.426	0.249	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.122	0.17	23.76	25.30	1.426	0.174	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.100	0.08	23.76	25.30	1.426	0.143	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.081	-0.06	23.76	25.30	1.426	0.115	22.1
Body worn Test data ECI 1 (Separate 15mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.196	-0.14	23.76	25.30	1.426	0.279	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.242	-0.06	23.76	25.30	1.426	0.345	22.1
Hotspot Test data ECI 3 (Separate 10mm)										
Front side	GPRS 4TS	661/1880	1:2.075	0.342	0.02	23.76	25.30	1.426	0.488	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.411	-0.01	23.76	25.30	1.426	0.586	22.1
Left side	GPRS 4TS	661/1880	1:2.075	0.277	-0.06	23.76	25.30	1.426	0.395	22.1
Bottom side	GPRS 4TS	661/1880	1:2.075	0.221	-0.01	23.76	25.30	1.426	0.315	22.1

Table 12: SAR of GSM1900 for Head and Body.



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8.2.3 SAR Result of WCDMA Band II

Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4										
Left cheek	RMC	9400/1880	1:1	0.275	0.15	22.57	23.80	1.327	0.365	21.8
Left tilted	RMC	9400/1880	1:1	0.162	0.07	22.57	23.80	1.327	0.215	21.8
Right cheek	RMC	9400/1880	1:1	0.159	0.09	22.57	23.80	1.327	0.211	21.8
Right tilted	RMC	9400/1880	1:1	0.133	0.15	22.57	23.80	1.327	0.177	21.8
Body worn Test data ECI 1 (Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.267	0.02	22.57	23.80	1.327	0.354	21.8
Back side	RMC	9400/1880	1:1	0.405	0.02	22.57	23.80	1.327	0.538	21.8
Hotspot Test data ECI 3 (Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.514	0.01	22.57	23.80	1.327	0.682	21.8
Back side	RMC	9400/1880	1:1	0.746	-0.02	22.57	23.80	1.327	0.990	21.8
Left side	RMC	9400/1880	1:1	0.582	0.11	22.57	23.80	1.327	0.773	21.8
Bottom side	RMC	9400/1880	1:1	0.372	0.04	22.57	23.80	1.327	0.494	21.8
Back side	RMC	9262/1852.4	1:1	0.650	-0.11	22.52	23.80	1.343	0.873	21.8
Back side	RMC	9538/1907.6	1:1	0.724	-0.04	22.56	23.80	1.330	0.963	21.8

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



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8.2.4 SAR Result of WCDMA Band IV

Ant 2 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4										
Left cheek	RMC	1412/1732.4	1:1	0.248	0.08	22.48	23.80	1.355	0.336	22.1
Left tilted	RMC	1412/1732.4	1:1	0.187	-0.04	22.48	23.80	1.355	0.253	22.1
Right cheek	RMC	1412/1732.4	1:1	0.171	-0.11	22.48	23.80	1.355	0.232	22.1
Right tilted	RMC	1412/1732.4	1:1	0.206	-0.05	22.48	23.80	1.355	0.279	22.1
Body worn Test data ECI 1 (Separate 15mm)										
Front side	RMC	1412/1732.4	1:1	0.261	0.12	22.48	23.80	1.355	0.354	22.1
Back side	RMC	1412/1732.4	1:1	0.244	0.18	22.48	23.80	1.355	0.331	22.1
Hotspot Test data ECI 3 (Separate 10mm)										
Front side	RMC	1412/1732.4	1:1	0.437	0.01	22.48	23.80	1.355	0.592	22.1
Back side	RMC	1412/1732.4	1:1	0.516	0.09	22.48	23.80	1.355	0.699	22.1
Left side	RMC	1412/1732.4	1:1	0.404	0.05	22.48	23.80	1.355	0.547	22.1
Bottom side	RMC	1412/1732.4	1:1	0.320	0.15	22.48	23.80	1.355	0.434	22.1

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



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8.2.5 SAR Result of WCDMA Band V

Ant 1 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4										
Left cheek	RMC	4182/836.4	1:1	0.312	0.09	23.02	23.80	1.197	0.373	22.1
Left tilted	RMC	4182/836.4	1:1	0.173	0.06	23.02	23.80	1.197	0.207	22.1
Right cheek	RMC	4182/836.4	1:1	0.389	0.01	23.02	23.80	1.197	0.466	22.1
Right tilted	RMC	4182/836.4	1:1	0.198	0.19	23.02	23.80	1.197	0.237	22.1
Body worn Test data ECI 1 (Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.307	0.08	23.02	23.80	1.197	0.367	22.1
Back side	RMC	4182/836.4	1:1	0.326	0.01	23.02	23.80	1.197	0.390	22.1
Hotspot Test data ECI 3 (Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.377	0.07	23.02	23.80	1.197	0.451	22.1
Back side	RMC	4182/836.4	1:1	0.593	-0.01	23.02	23.80	1.197	0.710	22.1
Left side	RMC	4182/836.4	1:1	0.293	0.03	23.02	23.80	1.197	0.351	22.1
Right side	RMC	4182/836.4	1:1	0.474	0.01	23.02	23.80	1.197	0.567	22.1
Bottom side	RMC	4182/836.4	1:1	0.406	0.03	23.02	23.80	1.197	0.486	22.1

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



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8.2.6 SAR Result of LTE Band 2

Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_99	19100/1900	1:1	0.342	0.13	23.37	24.30	1.239	0.424	21.8
Left tilted	20	QPSK 1_99	19100/1900	1:1	0.219	-0.10	23.37	24.30	1.239	0.271	21.8
Right cheek	20	QPSK 1_99	19100/1900	1:1	0.193	0.15	23.37	24.30	1.239	0.239	21.8
Right tilted	20	QPSK 1_99	19100/1900	1:1	0.148	0.12	23.37	24.30	1.239	0.183	21.8
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 50_25	18900/1880	1:1	0.271	0.12	22.31	23.30	1.256	0.340	21.8
Left tilted	20	QPSK 50_25	18900/1880	1:1	0.140	-0.19	22.31	23.30	1.256	0.176	21.8
Right cheek	20	QPSK 50_25	18900/1880	1:1	0.136	0.13	22.31	23.30	1.256	0.171	21.8
Right tilted	20	QPSK 50_25	18900/1880	1:1	0.102	-0.07	22.31	23.30	1.256	0.128	21.8
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_99	19100/1900	1:1	0.344	-0.10	23.37	24.30	1.239	0.426	21.8
Back side	20	QPSK 1_99	19100/1900	1:1	0.406	0.01	23.37	24.30	1.239	0.503	21.8
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	18900/1880	1:1	0.275	0.07	22.31	23.30	1.256	0.345	21.8
Back side	20	QPSK 50_25	18900/1880	1:1	0.353	-0.05	22.31	23.30	1.256	0.443	21.8
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_99	19100/1900	1:1	0.625	0.06	23.37	24.30	1.239	0.774	21.8
Back side	20	QPSK 1_99	19100/1900	1:1	0.830	-0.04	23.37	24.30	1.239	1.028	21.8
Left side	20	QPSK 1_99	19100/1900	1:1	0.683	0.02	23.37	24.30	1.239	0.846	21.8
Bottom side	20	QPSK 1_99	19100/1900	1:1	0.432	-0.02	23.37	24.30	1.239	0.535	21.8
Back side	20	QPSK 1_99	18700/1860	1:1	0.864	-0.07	23.36	24.30	1.242	1.073	21.8
Back side-Repeated	20	QPSK 1_99	18700/1860	1:1	0.807	-0.05	23.36	24.30	1.242	1.002	21.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.775	-0.04	23.31	24.30	1.256	0.973	21.8
Left side	20	QPSK 1_99	18700/1860	1:1	0.724	0.14	23.36	24.30	1.242	0.899	21.8
Left side	20	QPSK 1_0	18900/1880	1:1	0.726	0.16	23.31	24.30	1.256	0.912	21.8
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	18900/1880	1:1	0.496	0.06	22.31	23.30	1.256	0.623	21.8
Back side	20	QPSK 50_25	18900/1880	1:1	0.746	0.00	22.31	23.30	1.256	0.937	21.8
Left side	20	QPSK 50_25	18900/1880	1:1	0.556	0.16	22.31	23.30	1.256	0.698	21.8
Bottom side	20	QPSK 50_25	18900/1880	1:1	0.392	-0.04	22.31	23.30	1.256	0.492	21.8
Back side	20	QPSK 50_0	18700/1860	1:1	0.733	-0.06	22.27	23.30	1.268	0.929	21.8
Back side	20	QPSK 50_25	19100/1900	1:1	0.702	-0.06	22.27	23.30	1.268	0.890	21.8
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Left side	20	QPSK 100_0	19100/1900	1:1	0.536	0.08	22.36	23.30	1.242	0.666	21.8
Back side	20	QPSK 100_0	19100/1900	1:1	0.708	-0.05	22.36	23.30	1.242	0.879	21.8
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_0	18700/1860	1:1	0.480	-0.12	17.86	18.30	1.107	0.531	21.8
Left tilted	20	QPSK 1_0	18700/1860	1:1	0.572	0.00	17.86	18.30	1.107	0.633	21.8
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.679	0.01	17.86	18.30	1.107	0.751	21.8
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.821	-0.03	17.86	18.30	1.107	0.909	21.8
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.875	-0.02	17.85	18.30	1.109	0.971	21.8



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Right tilted	20	QPSK 1_99	19100/1900	1:1	0.881	-0.04	17.71	18.30	1.146	1.009	21.8
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 50_50	18900/1880	1:1	0.511	-0.16	17.87	18.30	1.104	0.564	21.8
Left tilted	20	QPSK 50_50	18900/1880	1:1	0.536	-0.03	17.87	18.30	1.104	0.592	21.8
Right cheek	20	QPSK 50_50	18900/1880	1:1	0.762	-0.05	17.87	18.30	1.104	0.841	21.8
Right tilted	20	QPSK 50_50	18900/1880	1:1	0.864	-0.06	17.87	18.30	1.104	0.954	21.8
Right cheek	20	QPSK 50_50	18700/1860	1:1	0.709	-0.01	17.83	18.30	1.114	0.790	21.8
Right cheek	20	QPSK 50_0	19100/1900	1:1	0.694	-0.01	17.80	18.30	1.122	0.779	21.8
Right tilted	20	QPSK 50_50	18700/1860	1:1	0.853	-0.07	17.83	18.30	1.114	0.950	21.8
Right tilted	20	QPSK 50_0	19100/1900	1:1	0.820	-0.01	17.80	18.30	1.122	0.920	21.8
Head Test Data ECI 4 (100%RB)											
Right cheek	20	QPSK 100_0	18900/1880	1:1	0.706	-0.01	17.82	18.30	1.117	0.789	21.8
Right tilted	20	QPSK 100_0	18900/1880	1:1	0.890	-0.10	17.82	18.30	1.117	0.994	21.8
Right tilted-Repeated	20	QPSK 100_0	18900/1880	1:1	0.870	-0.03	17.82	18.30	1.117	0.972	21.8
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.298	0.01	22.63	22.80	1.040	0.310	21.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.434	-0.09	22.63	22.80	1.040	0.451	21.8
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	18900/1880	1:1	0.248	0.11	21.77	21.80	1.007	0.250	21.8
Back side	20	QPSK 50_50	18900/1880	1:1	0.354	0.00	21.77	21.80	1.007	0.356	21.8
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.493	0.09	22.63	22.80	1.040	0.513	21.8
Back side	20	QPSK 1_0	18900/1880	1:1	0.763	-0.14	22.63	22.80	1.040	0.793	21.8
Left side	20	QPSK 1_0	18900/1880	1:1	0.213	0.09	22.63	22.80	1.040	0.222	21.8
Right side	20	QPSK 1_0	18900/1880	1:1	0.087	-0.09	22.63	22.80	1.040	0.091	21.8
Top side	20	QPSK 1_0	18900/1880	1:1	0.794	0.03	22.63	22.80	1.040	0.826	21.8
Top side	20	QPSK 1_0	18700/1860	1:1	0.779	0.00	22.58	22.80	1.052	0.819	21.8
Top side	20	QPSK 1_0	19100/1900	1:1	0.856	0.01	22.50	22.80	1.072	0.917	21.8
Top side-Repeated	20	QPSK 1_0	19100/1900	1:1	0.804	0.02	22.50	22.80	1.072	0.862	21.8
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	18900/1880	1:1	0.407	0.04	21.77	21.80	1.007	0.410	21.8
Back side	20	QPSK 50_50	18900/1880	1:1	0.667	-0.01	21.77	21.80	1.007	0.672	21.8
Left side	20	QPSK 50_50	18900/1880	1:1	0.147	-0.05	21.77	21.80	1.007	0.148	21.8
Right side	20	QPSK 50_50	18900/1880	1:1	0.056	-0.19	21.77	21.80	1.007	0.056	21.8
Top side	20	QPSK 50_50	18900/1880	1:1	0.671	0.00	21.77	21.80	1.007	0.676	21.8
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Top side	20	QPSK 100_0	19100/1900	1:1	0.640	0.00	21.58	21.80	1.052	0.673	21.8

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	18700/1860	0.864	0.807	1.071	N/A	N/A
Right tilted	18900/1880	0.890	0.87	1.023	N/A	N/A
Top side	19100/1900	0.856	0.804	1.065	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement



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results must be clearly identified in the SAR report.

ENDC LTE Band 2 SAR Test Record											
Ant 3 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_0	18700/1860	1:1	0.513	0.03	18.42	18.80	1.091	0.560	22.1
Left tilted	20	QPSK 1_0	18700/1860	1:1	0.583	-0.13	18.42	18.80	1.091	0.636	22.1
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.732	-0.06	18.42	18.80	1.091	0.799	22.1
Right tilted	20	QPSK 1_0	18700/1860	1:1	0.850	0.10	18.42	18.80	1.091	0.928	22.1
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.846	-0.04	18.31	18.80	1.119	0.947	22.1
Right tilted	20	QPSK 1_50	19100/1900	1:1	0.962	-0.11	18.34	18.80	1.112	1.069	22.1
Right tilted-Repeated	20	QPSK 1_50	19100/1900	1:1	0.853	-0.01	18.34	18.80	1.112	0.948	22.1
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.511	0.17	18.44	18.80	1.086	0.555	22.1
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.583	-0.08	18.44	18.80	1.086	0.633	22.1
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.734	-0.12	18.44	18.80	1.086	0.797	22.1
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.826	0.10	18.44	18.80	1.086	0.897	22.1
Right tilted	20	QPSK 50_0	18700/1860	1:1	0.829	0.11	18.33	18.80	1.114	0.924	22.1
Right tilted	20	QPSK 50_0	19100/1900	1:1	0.824	0.15	18.25	18.80	1.135	0.935	22.1
Head Test Data ECI 4 (100%RB)											
Right tilted	20	QPSK 100_0	18900/1880	1:1	0.822	0.02	18.32	18.80	1.117	0.918	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_0	18700/1860	1:1	0.352	0.06	23.95	24.30	1.084	0.382	22.1
Back side	20	QPSK 1_0	18700/1860	1:1	0.502	0.09	23.95	24.30	1.084	0.544	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	18900/1880	1:1	0.250	0.03	23.11	23.30	1.045	0.261	22.1
Back side	20	QPSK 50_25	18900/1880	1:1	0.359	0.03	23.11	23.30	1.045	0.375	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18700/1860	1:1	0.559	0.11	23.95	24.30	1.084	0.606	22.1
Back side	20	QPSK 1_0	18700/1860	1:1	0.909	-0.06	23.95	24.30	1.084	0.985	22.1
Left side	20	QPSK 1_0	18700/1860	1:1	0.256	-0.05	23.95	24.30	1.084	0.277	22.1
Right side	20	QPSK 1_0	18700/1860	1:1	0.083	0.05	23.95	24.30	1.084	0.090	22.1
Top side	20	QPSK 1_0	18700/1860	1:1	0.929	-0.18	23.95	24.30	1.084	1.007	22.1
Back side	20	QPSK 1_0	18900/1880	1:1	0.760	-0.04	23.93	24.30	1.089	0.828	22.1
Back side	20	QPSK 1_50	19100/1900	1:1	0.882	-0.13	23.90	24.30	1.096	0.967	22.1
Top side	20	QPSK 1_0	18900/1880	1:1	0.965	0.18	23.93	24.30	1.089	1.051	22.1
Top side	20	QPSK 1_50	19100/1900	1:1	0.982	0.11	23.90	24.30	1.096	1.077	22.1
Top side-Repeated	20	QPSK 1_50	19100/1900	1:1	0.980	0.12	23.90	24.30	1.096	1.075	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	18900/1880	1:1	0.452	-0.07	23.11	23.30	1.045	0.472	22.1
Back side	20	QPSK 50_25	18900/1880	1:1	0.724	-0.15	23.11	23.30	1.045	0.756	22.1
Left side	20	QPSK 50_25	18900/1880	1:1	0.193	0.00	23.11	23.30	1.045	0.202	22.1
Right side	20	QPSK 50_25	18900/1880	1:1	0.059	-0.01	23.11	23.30	1.045	0.061	22.1
Top side	20	QPSK 50_25	18900/1880	1:1	0.778	0.19	23.11	23.30	1.045	0.813	22.1
Top side	20	QPSK 50_25	18700/1860	1:1	0.753	-0.13	23.10	23.30	1.047	0.788	22.1
Top side	20	QPSK 50_0	19100/1900	1:1	0.751	-0.09	23.10	23.30	1.047	0.786	22.1
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Back side	20	QPSK 100_0	18900/1880	1:1	0.742	-0.03	23.06	23.30	1.057	0.784	22.1



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Top side	20	QPSK 100_0	18900/1880	1:1	0.736	0.08	23.06	23.30	1.057	0.778	22.1
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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	19100/1900	0.962	0.853	1.128	N/A	N/A
Top side	19100/1900	0.982	0.980	1.002	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

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



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8.2.7 SAR Result of LTE Band 5

ENDC LTE Band 5 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	10	QPSK 1_25	20450/829	1:1	0.294	-0.12	24.38	24.80	1.102	0.324	22.3
Left tilted	10	QPSK 1_25	20450/829	1:1	0.310	0.14	24.38	24.80	1.102	0.341	22.3
Right cheek	10	QPSK 1_25	20450/829	1:1	0.493	0.02	24.38	24.80	1.102	0.543	22.3
Right tilted	10	QPSK 1_25	20450/829	1:1	0.356	0.10	24.38	24.80	1.102	0.392	22.3
Head Test Data ECI 4 (50%RB)											
Left cheek	10	QPSK 25_25	20450/829	1:1	0.246	0.01	23.32	23.80	1.117	0.275	22.3
Left tilted	10	QPSK 25_25	20450/829	1:1	0.271	0.02	23.32	23.80	1.117	0.303	22.3
Right cheek	10	QPSK 25_25	20450/829	1:1	0.401	0.01	23.32	23.80	1.117	0.448	22.3
Right tilted	10	QPSK 25_25	20450/829	1:1	0.325	0.06	23.32	23.80	1.117	0.363	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	10	QPSK 1_25	20450/829	1:1	0.024	0.06	24.38	24.80	1.102	0.026	22.3
Back side	10	QPSK 1_25	20450/829	1:1	0.125	-0.14	24.38	24.80	1.102	0.138	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	10	QPSK 25_25	20450/829	1:1	0.018	0.04	23.32	23.80	1.117	0.020	22.3
Back side	10	QPSK 25_25	20450/829	1:1	0.026	0.08	23.32	23.80	1.117	0.029	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	10	QPSK 1_25	20450/829	1:1	0.047	0.02	24.38	24.80	1.102	0.052	22.3
Back side	10	QPSK 1_25	20450/829	1:1	0.209	-0.14	24.38	24.80	1.102	0.230	22.3
Left side	10	QPSK 1_25	20450/829	1:1	0.121	0.07	24.38	24.80	1.102	0.133	22.3
Right side	10	QPSK 1_25	20450/829	1:1	0.091	0.04	24.38	24.80	1.102	0.101	22.3
Top side	10	QPSK 1_25	20450/829	1:1	0.155	0.05	24.38	24.80	1.102	0.171	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	10	QPSK 25_25	20450/829	1:1	0.037	0.12	23.32	23.80	1.117	0.042	22.3
Back side	10	QPSK 25_25	20450/829	1:1	0.069	0.07	23.32	23.80	1.117	0.077	22.3
Left side	10	QPSK 25_25	20450/829	1:1	0.031	-0.12	23.32	23.80	1.117	0.034	22.3
Right side	10	QPSK 25_25	20450/829	1:1	0.020	0.08	23.32	23.80	1.117	0.022	22.3
Top side	10	QPSK 25_25	20450/829	1:1	0.053	-0.09	23.32	23.80	1.117	0.059	22.3

Table 17: SAR of LTE Band 5 for Head and Body.



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8.2.8 SAR Result of LTE Band 12

Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	10	QPSK 1_25	23130/711	1:1	0.203	0.02	23.91	24.80	1.227	0.249	22.3
Left tilted	10	QPSK 1_25	23130/711	1:1	0.107	0.02	23.91	24.80	1.227	0.131	22.3
Right cheek	10	QPSK 1_25	23130/711	1:1	0.244	0.02	23.91	24.80	1.227	0.299	22.3
Right tilted	10	QPSK 1_25	23130/711	1:1	0.117	0.03	23.91	24.80	1.227	0.144	22.3
Head Test Data ECI 4 (50%RB)											
Left cheek	10	QPSK 25_25	23130/711	1:1	0.155	-0.09	22.92	23.80	1.225	0.190	22.3
Left tilted	10	QPSK 25_25	23130/711	1:1	0.086	0.03	22.92	23.80	1.225	0.106	22.3
Right cheek	10	QPSK 25_25	23130/711	1:1	0.189	0.03	22.92	23.80	1.225	0.231	22.3
Right tilted	10	QPSK 25_25	23130/711	1:1	0.094	0.08	22.92	23.80	1.225	0.115	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	10	QPSK 1_25	23130/711	1:1	0.306	-0.03	23.91	24.80	1.227	0.376	22.3
Back side	10	QPSK 1_25	23130/711	1:1	0.341	-0.02	23.91	24.80	1.227	0.419	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	10	QPSK 25_25	23130/711	1:1	0.245	0.09	22.92	23.80	1.225	0.300	22.3
Back side	10	QPSK 25_25	23130/711	1:1	0.279	-0.03	22.92	23.80	1.225	0.342	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	10	QPSK 1_25	23130/711	1:1	0.294	0.04	23.91	24.80	1.227	0.361	22.3
Back side	10	QPSK 1_25	23130/711	1:1	0.349	0.01	23.91	24.80	1.227	0.428	22.3
Left side	10	QPSK 1_25	23130/711	1:1	0.294	0.00	23.91	24.80	1.227	0.361	22.3
Right side	10	QPSK 1_25	23130/711	1:1	0.403	-0.01	23.91	24.80	1.227	0.495	22.3
Bottom side	10	QPSK 1_25	23130/711	1:1	0.221	0.10	23.91	24.80	1.227	0.271	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	10	QPSK 25_25	23130/711	1:1	0.236	0.03	22.92	23.80	1.225	0.289	22.3
Back side	10	QPSK 25_25	23130/711	1:1	0.279	0.05	22.92	23.80	1.225	0.342	22.3
Left side	10	QPSK 25_25	23130/711	1:1	0.226	-0.08	22.92	23.80	1.225	0.277	22.3
Right side	10	QPSK 25_25	23130/711	1:1	0.365	-0.02	22.92	23.80	1.225	0.447	22.3
Bottom side	10	QPSK 25_25	23130/711	1:1	0.183	0.12	22.92	23.80	1.225	0.224	22.3

Table 18: SAR of LTE Band 12 for Head and Body.



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8.2.9 SAR Result of LTE Band 14

Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	10	QPSK 1_25	23330/793	1:1	0.269	0.02	24.58	24.80	1.052	0.283	22.3
Left tilted	10	QPSK 1_25	23330/793	1:1	0.132	0.01	24.58	24.80	1.052	0.139	22.3
Right cheek	10	QPSK 1_25	23330/793	1:1	0.321	0.03	24.58	24.80	1.052	0.338	22.3
Right tilted	10	QPSK 1_25	23330/793	1:1	0.141	0.07	24.58	24.80	1.052	0.148	22.3
Head Test Data ECI 4 (50%RB)											
Left cheek	10	QPSK 25_13	23330/793	1:1	0.205	0.17	23.54	23.80	1.062	0.218	22.3
Left tilted	10	QPSK 25_13	23330/793	1:1	0.103	0.07	23.54	23.80	1.062	0.109	22.3
Right cheek	10	QPSK 25_13	23330/793	1:1	0.245	0.01	23.54	23.80	1.062	0.260	22.3
Right tilted	10	QPSK 25_13	23330/793	1:1	0.110	0.05	23.54	23.80	1.062	0.117	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	10	QPSK 1_25	23330/793	1:1	0.367	-0.05	24.58	24.80	1.052	0.386	22.3
Back side	10	QPSK 1_25	23330/793	1:1	0.341	0.00	24.58	24.80	1.052	0.359	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	10	QPSK 25_13	23330/793	1:1	0.283	-0.04	23.54	23.80	1.062	0.300	22.3
Back side	10	QPSK 25_13	23330/793	1:1	0.264	0.02	23.54	23.80	1.062	0.280	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	10	QPSK 1_25	23330/793	1:1	0.333	0.03	24.58	24.80	1.052	0.350	22.3
Back side	10	QPSK 1_25	23330/793	1:1	0.443	0.05	24.58	24.80	1.052	0.466	22.3
Left side	10	QPSK 1_25	23330/793	1:1	0.249	0.01	24.58	24.80	1.052	0.262	22.3
Right side	10	QPSK 1_25	23330/793	1:1	0.441	0.02	24.58	24.80	1.052	0.464	22.3
Bottom side	10	QPSK 1_25	23330/793	1:1	0.400	0.11	24.58	24.80	1.052	0.421	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	10	QPSK 25_13	23330/793	1:1	0.260	0.07	23.54	23.80	1.062	0.276	22.3
Back side	10	QPSK 25_13	23330/793	1:1	0.348	0.09	23.54	23.80	1.062	0.369	22.3
Left side	10	QPSK 25_13	23330/793	1:1	0.188	-0.06	23.54	23.80	1.062	0.200	22.3
Right side	10	QPSK 25_13	23330/793	1:1	0.364	-0.04	23.54	23.80	1.062	0.386	22.3
Bottom side	10	QPSK 25_13	23330/793	1:1	0.313	0.08	23.54	23.80	1.062	0.332	22.3

Table 19: SAR of LTE Band 14 for Head and Body.



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8.2.10 SAR Result of LTE Band 26

Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	15	QPSK 1_74	26865/831.5	1:1	0.273	0.17	24.28	24.80	1.127	0.308	22.1
Left tilted	15	QPSK 1_74	26865/831.5	1:1	0.142	0.03	24.28	24.80	1.127	0.160	22.1
Right cheek	15	QPSK 1_74	26865/831.5	1:1	0.319	0.01	24.28	24.80	1.127	0.360	22.1
Right tilted	15	QPSK 1_74	26865/831.5	1:1	0.174	0.06	24.28	24.80	1.127	0.196	22.1
Head Test Data ECI 4 (50%RB)											
Left cheek	15	QPSK 36_39	26865/831.5	1:1	0.225	0.01	23.40	23.80	1.096	0.247	22.1
Left tilted	15	QPSK 36_39	26865/831.5	1:1	0.121	0.09	23.40	23.80	1.096	0.133	22.1
Right cheek	15	QPSK 36_39	26865/831.5	1:1	0.271	0.03	23.40	23.80	1.096	0.297	22.1
Right tilted	15	QPSK 36_39	26865/831.5	1:1	0.148	0.07	23.40	23.80	1.096	0.162	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	15	QPSK 1_74	26865/831.5	1:1	0.268	0.15	24.28	24.80	1.127	0.302	22.1
Back side	15	QPSK 1_74	26865/831.5	1:1	0.241	0.15	24.28	24.80	1.127	0.272	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	15	QPSK 36_39	26865/831.5	1:1	0.237	0.02	23.40	23.80	1.096	0.260	22.1
Back side	15	QPSK 36_39	26865/831.5	1:1	0.232	0.07	23.40	23.80	1.096	0.254	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	15	QPSK 1_74	26865/831.5	1:1	0.361	0.01	24.28	24.80	1.127	0.407	22.1
Back side	15	QPSK 1_74	26865/831.5	1:1	0.493	0.04	24.28	24.80	1.127	0.556	22.1
Left side	15	QPSK 1_74	26865/831.5	1:1	0.223	0.01	24.28	24.80	1.127	0.251	22.1
Right side	15	QPSK 1_74	26865/831.5	1:1	0.372	-0.02	24.28	24.80	1.127	0.419	22.1
Bottom side	15	QPSK 1_74	26865/831.5	1:1	0.426	0.09	24.28	24.80	1.127	0.480	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	15	QPSK 36_39	26865/831.5	1:1	0.308	0.02	23.40	23.80	1.096	0.338	22.1
Back side	15	QPSK 36_39	26865/831.5	1:1	0.419	0.02	23.40	23.80	1.096	0.459	22.1
Left side	15	QPSK 36_39	26865/831.5	1:1	0.189	-0.03	23.40	23.80	1.096	0.207	22.1
Right side	15	QPSK 36_39	26865/831.5	1:1	0.340	-0.04	23.40	23.80	1.096	0.373	22.1
Bottom side	15	QPSK 36_39	26865/831.5	1:1	0.366	0.11	23.40	23.80	1.096	0.401	22.1

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



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8.2.11 SAR Result of LTE Band 30

Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	10	QPSK 1_0	27710/2310	1:1	0.343	0.06	12.55	13.30	1.189	0.408	22.4
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.454	0.01	12.55	13.30	1.189	0.540	22.4
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.657	-0.04	12.55	13.30	1.189	0.781	22.4
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.751	-0.09	12.55	13.30	1.189	0.893	22.4
Head Test Data ECI 4 (50%RB)											
Left cheek	10	QPSK 25_13	27710/2310	1:1	0.362	0.03	12.53	13.30	1.194	0.432	22.4
Left tilted	10	QPSK 25_13	27710/2310	1:1	0.497	0.03	12.53	13.30	1.194	0.593	22.4
Right cheek	10	QPSK 25_13	27710/2310	1:1	0.662	-0.03	12.53	13.30	1.194	0.790	22.4
Right tilted	10	QPSK 25_13	27710/2310	1:1	0.752	0.09	12.53	13.30	1.194	0.898	22.4
Head Test Data ECI 4 (100%RB)											
Right tilted	10	QPSK 50_0	27710/2310	1:1	0.756	0.09	12.51	13.30	1.199	0.907	22.4
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.345	0.09	20.35	20.80	1.109	0.383	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.701	0.02	20.35	20.80	1.109	0.778	22.4
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	27710/2310	1:1	0.361	0.09	20.20	20.80	1.148	0.414	22.4
Back side	10	QPSK 25_0	27710/2310	1:1	0.686	-0.02	20.20	20.80	1.148	0.788	22.4
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.300	0.09	17.24	17.80	1.138	0.341	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.578	0.01	17.24	17.80	1.138	0.658	22.4
Left side	10	QPSK 1_0	27710/2310	1:1	0.047	0.06	17.24	17.80	1.138	0.054	22.4
Right side	10	QPSK 1_0	27710/2310	1:1	0.015	0.04	17.24	17.80	1.138	0.017	22.4
Top side	10	QPSK 1_0	27710/2310	1:1	0.645	-0.05	17.24	17.80	1.138	0.734	22.4
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	10	QPSK 25_25	27710/2310	1:1	0.338	0.09	17.19	17.80	1.151	0.389	22.4
Back side	10	QPSK 25_25	27710/2310	1:1	0.661	0.05	17.19	17.80	1.151	0.761	22.4
Left side	10	QPSK 25_25	27710/2310	1:1	0.054	0.04	17.19	17.80	1.151	0.062	22.4
Right side	10	QPSK 25_25	27710/2310	1:1	0.016	0.03	17.19	17.80	1.151	0.019	22.4
Top side	10	QPSK 25_25	27710/2310	1:1	0.758	-0.01	17.19	17.80	1.151	0.872	22.4
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Top side	10	QPSK 50_0	27710/2310	1:1	0.729	-0.06	17.17	17.80	1.156	0.843	22.4
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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB)											
Back side	10	QPSK 1_0	27710/2310	1:1	2.320	0.04	20.25	20.80	1.135	2.633	22.4
Top side	10	QPSK 1_0	27710/2310	1:1	2.030	-0.03	20.25	20.80	1.135	2.304	22.4
Product specific 10g SAR Test data (Separate 0mm 50%RB)											
Back side	10	QPSK 25_0	27710/2310	1:1	2.480	0.06	20.20	20.80	1.148	2.847	22.4
Back side-Repeated	10	QPSK 25_0	27710/2310	1:1	2.430	0.06	20.20	20.80	1.148	2.790	22.4
Top side	10	QPSK 25_0	27710/2310	1:1	2.040	0.01	20.20	20.80	1.148	2.342	22.4
Product specific 10g SAR Test data (Separate 0mm 100%RB)											
Back side	10	QPSK 50_0	27710/2310	1:1	1.980	0.18	20.13	20.80	1.167	2.310	22.4
Top side	10	QPSK 50_0	27710/2310	1:1	2.000	0.01	20.13	20.80	1.167	2.334	22.4



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Back side	27710/2310	2.480	2.430	1.021	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

ENDC LTE Band 30 Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	10	QPSK 1_49	27710/2310	1:1	0.003	0.01	22.53	22.80	1.064	0.003	22.4
Left tilted	10	QPSK 1_49	27710/2310	1:1	0.001	-0.01	22.53	22.80	1.064	0.001	22.4
Right cheek	10	QPSK 1_49	27710/2310	1:1	0.004	0.01	22.53	22.80	1.064	0.004	22.4
Right tilted	10	QPSK 1_49	27710/2310	1:1	0.001	-0.03	22.53	22.80	1.064	0.001	22.4
Head Test Data ECI 4 (50%RB)											
Left cheek	10	QPSK 25_25	27710/2310	1:1	0.001	0.02	21.46	21.80	1.081	0.001	22.4
Left tilted	10	QPSK 25_25	27710/2310	1:1	0.001	0.01	21.46	21.80	1.081	0.001	22.4
Right cheek	10	QPSK 25_25	27710/2310	1:1	0.003	-0.01	21.46	21.80	1.081	0.003	22.4
Right tilted	10	QPSK 25_25	27710/2310	1:1	0.001	-0.02	21.46	21.80	1.081	0.001	22.4
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	10	QPSK 1_49	27710/2310	1:1	0.233	0.09	21.52	21.80	1.067	0.249	22.4
Back side	10	QPSK 1_49	27710/2310	1:1	0.502	-0.19	21.52	21.80	1.067	0.535	22.4
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	10	QPSK 25_25	27710/2310	1:1	0.226	0.09	21.46	21.80	1.081	0.244	22.4
Back side	10	QPSK 25_25	27710/2310	1:1	0.462	0.05	21.46	21.80	1.081	0.500	22.4
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	10	QPSK 1_49	27710/2310	1:1	0.338	-0.05	20.67	20.80	1.030	0.348	22.4
Back side	10	QPSK 1_49	27710/2310	1:1	0.740	0.11	20.67	20.80	1.030	0.762	22.4
Left side	10	QPSK 1_49	27710/2310	1:1	0.180	0.11	20.67	20.80	1.030	0.185	22.4
Right side	10	QPSK 1_49	27710/2310	1:1	0.124	-0.02	20.67	20.80	1.030	0.128	22.4
Bottom side	10	QPSK 1_49	27710/2310	1:1	0.747	0.12	20.67	20.80	1.030	0.770	22.4
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	10	QPSK 25_25	27710/2310	1:1	0.337	-0.14	20.48	20.80	1.076	0.363	22.4
Back side	10	QPSK 25_25	27710/2310	1:1	0.723	0.07	20.48	20.80	1.076	0.778	22.4
Left side	10	QPSK 25_25	27710/2310	1:1	0.206	-0.06	20.48	20.80	1.076	0.222	22.4
Right side	10	QPSK 25_25	27710/2310	1:1	0.136	0.09	20.48	20.80	1.076	0.146	22.4
Bottom side	10	QPSK 25_25	27710/2310	1:1	0.776	0.05	20.48	20.80	1.076	0.835	22.4
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Bottom side	10	QPSK 50_0	27710/2310	1:1	0.711	-0.10	20.47	20.80	1.079	0.767	22.4

Table 21: SAR of LTE Band 30 for Head and Body and Product specific 10g.



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8.2.12 SAR Result of LTE Band 48

Ant 5 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_0	55990/3625	1:1.58	0.151	0.12	17.03	17.30	1.064	0.161	22.1
Left tilted	20	QPSK 1_0	55990/3625	1:1.58	0.118	0.10	17.03	17.30	1.064	0.126	22.1
Right cheek	20	QPSK 1_0	55990/3625	1:1.58	0.640	0.02	17.03	17.30	1.064	0.681	22.1
Right tilted	20	QPSK 1_0	55990/3625	1:1.58	0.297	0.01	17.03	17.30	1.064	0.316	22.1
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 50_50	55990/3625	1:1.58	0.152	-0.04	16.92	17.30	1.091	0.166	22.1
Left tilted	20	QPSK 50_50	55990/3625	1:1.58	0.121	-0.05	16.92	17.30	1.091	0.132	22.1
Right cheek	20	QPSK 50_50	55990/3625	1:1.58	0.579	0.00	16.92	17.30	1.091	0.632	22.1
Right tilted	20	QPSK 50_50	55990/3625	1:1.58	0.288	0.08	16.92	17.30	1.091	0.314	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.363	0.04	23.70	23.80	1.023	0.371	22.1
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.322	0.03	23.70	23.80	1.023	0.330	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	55990/3625	1:1.58	0.300	0.06	22.74	22.80	1.014	0.304	22.1
Back side	20	QPSK 50_0	55990/3625	1:1.58	0.264	0.08	22.74	22.80	1.014	0.268	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_0	55990/3625	1:1.58	0.630	-0.18	23.70	23.80	1.023	0.645	22.1
Back side	20	QPSK 1_0	55990/3625	1:1.58	0.735	-0.18	23.70	23.80	1.023	0.752	22.1
Left side	20	QPSK 1_0	55990/3625	1:1.58	1.000	0.11	23.70	23.80	1.023	1.023	22.1
Top side	20	QPSK 1_0	55990/3625	1:1.58	0.198	0.07	23.70	23.80	1.023	0.203	22.1
Left side	20	QPSK 1_99	55340/3560	1:1.58	1.010	0.13	23.49	23.80	1.074	1.085	22.1
Left side-Repeated	20	QPSK 1_99	55340/3560	1:1.58	0.986	0.03	23.49	23.80	1.074	1.059	22.1
Left side	20	QPSK 1_99	56640/3690	1:1.58	0.951	-0.04	23.61	23.80	1.045	0.994	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	55990/3625	1:1.58	0.506	-0.10	22.74	22.80	1.014	0.513	22.1
Back side	20	QPSK 50_0	55990/3625	1:1.58	0.595	-0.08	22.74	22.80	1.014	0.603	22.1
Left side	20	QPSK 50_0	55990/3625	1:1.58	0.854	-0.16	22.74	22.80	1.014	0.866	22.1
Top side	20	QPSK 50_0	55990/3625	1:1.58	0.162	0.02	22.74	22.80	1.014	0.164	22.1
Left side	20	QPSK 50_50	55340/3560	1:1.58	0.877	0.16	22.54	22.80	1.062	0.931	22.1
Left side	20	QPSK 50_25	56640/3690	1:1.58	0.765	0.15	22.61	22.80	1.045	0.799	22.1
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Left side	20	QPSK 100_0	55990/3625	1:1.58	0.793	0.03	22.69	22.80	1.026	0.813	22.1



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left side	55340/3560	1.010	0.986	1.024	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 22: SAR of LTE Band 48 for Head and Body.



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8.2.13 SAR Result of LTE Band 66

Ant 2 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_99	132072/1720	1:1	0.269	-0.16	23.65	24.30	1.161	0.312	21.5
Left tilted	20	QPSK 1_99	132072/1720	1:1	0.199	0.08	23.65	24.30	1.161	0.231	21.5
Right cheek	20	QPSK 1_99	132072/1720	1:1	0.171	0.13	23.65	24.30	1.161	0.199	21.5
Right tilted	20	QPSK 1_99	132072/1720	1:1	0.230	-0.12	23.65	24.30	1.161	0.267	21.5
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 50_50	132072/1720	1:1	0.200	0.04	22.70	23.30	1.148	0.230	21.5
Left tilted	20	QPSK 50_50	132072/1720	1:1	0.154	0.07	22.70	23.30	1.148	0.177	21.5
Right cheek	20	QPSK 50_50	132072/1720	1:1	0.149	-0.19	22.70	23.30	1.148	0.171	21.5
Right tilted	20	QPSK 50_50	132072/1720	1:1	0.168	0.06	22.70	23.30	1.148	0.193	21.5
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_99	132072/1720	1:1	0.300	0.07	23.65	24.30	1.161	0.348	21.5
Back side	20	QPSK 1_99	132072/1720	1:1	0.341	0.05	23.65	24.30	1.161	0.396	21.5
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	132072/1720	1:1	0.242	0.09	22.70	23.30	1.148	0.278	21.5
Back side	20	QPSK 50_50	132072/1720	1:1	0.247	0.09	22.70	23.30	1.148	0.284	21.5
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_99	132072/1720	1:1	0.507	0.08	23.65	24.30	1.161	0.589	21.5
Back side	20	QPSK 1_99	132072/1720	1:1	0.609	0.02	23.65	24.30	1.161	0.707	21.5
Left side	20	QPSK 1_99	132072/1720	1:1	0.556	0.14	23.65	24.30	1.161	0.646	21.5
Bottom side	20	QPSK 1_99	132072/1720	1:1	0.379	0.03	23.65	24.30	1.161	0.440	21.5
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	132072/1720	1:1	0.400	0.13	22.70	23.30	1.148	0.459	21.5
Back side	20	QPSK 50_50	132072/1720	1:1	0.515	0.05	22.70	23.30	1.148	0.591	21.5
Left side	20	QPSK 50_50	132072/1720	1:1	0.425	0.15	22.70	23.30	1.148	0.488	21.5
Bottom side	20	QPSK 50_50	132072/1720	1:1	0.292	0.07	22.70	23.30	1.148	0.335	21.5
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_0	132072/1720	1:1	0.330	-0.03	19.63	20.30	1.167	0.385	21.5
Left tilted	20	QPSK 1_0	132072/1720	1:1	0.353	0.01	19.63	20.30	1.167	0.412	21.5
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.445	0.01	19.63	20.30	1.167	0.519	21.5
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.523	0.05	19.63	20.30	1.167	0.610	21.5
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 50_0	132072/1720	1:1	0.321	-0.08	19.61	20.30	1.172	0.376	21.5
Left tilted	20	QPSK 50_0	132072/1720	1:1	0.347	0.00	19.61	20.30	1.172	0.407	21.5
Right cheek	20	QPSK 50_0	132072/1720	1:1	0.436	-0.11	19.61	20.30	1.172	0.511	21.5
Right tilted	20	QPSK 50_0	132072/1720	1:1	0.513	-0.08	19.61	20.30	1.172	0.601	21.5
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_99	132072/1720	1:1	0.184	0.09	23.15	23.30	1.035	0.190	21.5
Back side	20	QPSK 1_99	132072/1720	1:1	0.245	-0.04	23.15	23.30	1.035	0.254	21.5
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	132572/1770	1:1	0.177	0.13	22.16	22.30	1.033	0.183	21.5
Back side	20	QPSK 50_0	132572/1770	1:1	0.247	-0.09	22.16	22.30	1.033	0.255	21.5
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_99	132072/1720	1:1	0.350	0.05	23.15	23.30	1.035	0.362	21.5
Back side	20	QPSK 1_99	132072/1720	1:1	0.468	-0.14	23.15	23.30	1.035	0.484	21.5
Left side	20	QPSK 1_99	132072/1720	1:1	0.127	-0.03	23.15	23.30	1.035	0.131	21.5
Right side	20	QPSK 1_99	132072/1720	1:1	0.113	-0.02	23.15	23.30	1.035	0.117	21.5
Top side	20	QPSK 1_99	132072/1720	1:1	0.472	-0.10	23.15	23.30	1.035	0.489	21.5



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Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132572/1770	1:1	0.329	0.00	22.16	22.30	1.033	0.340	21.5
Back side	20	QPSK 50_0	132572/1770	1:1	0.466	0.06	22.16	22.30	1.033	0.481	21.5
Left side	20	QPSK 50_0	132572/1770	1:1	0.130	-0.09	22.16	22.30	1.033	0.134	21.5
Right side	20	QPSK 50_0	132572/1770	1:1	0.079	-0.12	22.16	22.30	1.033	0.082	21.5
Top side	20	QPSK 50_0	132572/1770	1:1	0.462	-0.10	22.16	22.30	1.033	0.477	21.5

ENDC LTE Band 66 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_0	132072/1720	1:1	0.497	-0.05	18.53	18.80	1.064	0.529	21.5
Left tilted	20	QPSK 1_0	132072/1720	1:1	0.537	0.03	18.53	18.80	1.064	0.571	21.5
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.702	-0.03	18.53	18.80	1.064	0.747	21.5
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.802	-0.10	18.53	18.80	1.064	0.853	21.5
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.805	-0.12	18.44	18.80	1.086	0.875	21.5
Right tilted	20	QPSK 1_0	132572/1770	1:1	0.897	-0.08	18.50	18.80	1.072	0.961	21.5
Right tilted-Repeated	20	QPSK 1_0	132572/1770	1:1	0.869	-0.06	18.50	18.80	1.072	0.931	21.5
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 50_0	132072/1720	1:1	0.476	-0.07	18.60	18.80	1.047	0.498	21.5
Left tilted	20	QPSK 50_0	132072/1720	1:1	0.517	0.03	18.60	18.80	1.047	0.541	21.5
Right cheek	20	QPSK 50_0	132072/1720	1:1	0.667	0.03	18.60	18.80	1.047	0.698	21.5
Right tilted	20	QPSK 50_0	132072/1720	1:1	0.784	-0.06	18.60	18.80	1.047	0.821	21.5
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.803	-0.13	18.53	18.80	1.064	0.855	21.5
Right tilted	20	QPSK 50_0	132572/1770	1:1	0.847	0.09	18.39	18.80	1.099	0.931	21.5
Head Test Data ECI 4 (100%RB)											
Right tilted	20	QPSK 100_0	132072/1720	1:1	0.836	-0.06	18.38	18.80	1.102	0.921	21.5
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_0	132072/1720	1:1	0.268	0.08	23.89	24.30	1.099	0.295	21.5
Back side	20	QPSK 1_0	132072/1720	1:1	0.356	0.00	23.89	24.30	1.099	0.391	21.5
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 50_25	132072/1720	1:1	0.218	0.12	23.08	23.30	1.052	0.229	21.5
Back side	20	QPSK 50_25	132072/1720	1:1	0.284	-0.01	23.08	23.30	1.052	0.299	21.5
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132072/1720	1:1	0.504	0.06	23.89	24.30	1.099	0.554	21.5
Back side	20	QPSK 1_0	132072/1720	1:1	0.630	0.01	23.89	24.30	1.099	0.692	21.5
Left side	20	QPSK 1_0	132072/1720	1:1	0.206	0.05	23.89	24.30	1.099	0.226	21.5
Right side	20	QPSK 1_0	132072/1720	1:1	0.132	0.05	23.89	24.30	1.099	0.145	21.5
Top side	20	QPSK 1_0	132072/1720	1:1	0.613	-0.01	23.89	24.30	1.099	0.674	21.5
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 50_25	132072/1720	1:1	0.400	0.06	23.08	23.30	1.052	0.421	21.5
Back side	20	QPSK 50_25	132072/1720	1:1	0.552	0.00	23.08	23.30	1.052	0.581	21.5
Left side	20	QPSK 50_25	132072/1720	1:1	0.148	-0.01	23.08	23.30	1.052	0.156	21.5
Right side	20	QPSK 50_25	132072/1720	1:1	0.101	-0.06	23.08	23.30	1.052	0.106	21.5
Top side	20	QPSK 50_25	132072/1720	1:1	0.493	-0.07	23.08	23.30	1.052	0.519	21.5



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	132572/1770	0.897	0.869	1.032	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 23: SAR of LTE Band 66 for Head and Body.



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8.2.14 SAR Result of LTE Band 71

Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_50	133322/683	1:1	0.218	0.08	24.55	24.80	1.059	0.231	22.2
Left tilted	20	QPSK 1_50	133322/683	1:1	0.105	0.08	24.55	24.80	1.059	0.111	22.2
Right cheek	20	QPSK 1_50	133322/683	1:1	0.275	0.03	24.55	24.80	1.059	0.291	22.2
Right tilted	20	QPSK 1_50	133322/683	1:1	0.121	0.09	24.55	24.80	1.059	0.128	22.2
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 50_50	133322/683	1:1	0.179	0.04	23.56	23.80	1.057	0.189	22.2
Left tilted	20	QPSK 50_50	133322/683	1:1	0.093	0.05	23.56	23.80	1.057	0.098	22.2
Right cheek	20	QPSK 50_50	133322/683	1:1	0.224	0.06	23.56	23.80	1.057	0.237	22.2
Right tilted	20	QPSK 50_50	133322/683	1:1	0.101	0.01	23.56	23.80	1.057	0.107	22.2
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_50	133322/683	1:1	0.306	0.10	24.55	24.80	1.059	0.324	22.2
Back side	20	QPSK 1_50	133322/683	1:1	0.335	0.05	24.55	24.80	1.059	0.355	22.2
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 50_50	133322/683	1:1	0.253	0.06	23.56	23.80	1.057	0.267	22.2
Back side	20	QPSK 50_50	133322/683	1:1	0.282	0.07	23.56	23.80	1.057	0.298	22.2
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_50	133322/683	1:1	0.297	0.06	24.55	24.80	1.059	0.315	22.2
Back side	20	QPSK 1_50	133322/683	1:1	0.356	-0.07	24.55	24.80	1.059	0.377	22.2
Left side	20	QPSK 1_50	133322/683	1:1	0.313	0.05	24.55	24.80	1.059	0.332	22.2
Right side	20	QPSK 1_50	133322/683	1:1	0.535	0.05	24.55	24.80	1.059	0.567	22.2
Bottom side	20	QPSK 1_50	133322/683	1:1	0.205	0.13	24.55	24.80	1.059	0.217	22.2
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 50_50	133322/683	1:1	0.251	0.08	23.56	23.80	1.057	0.265	22.2
Back side	20	QPSK 50_50	133322/683	1:1	0.295	0.09	23.56	23.80	1.057	0.312	22.2
Left side	20	QPSK 50_50	133322/683	1:1	0.269	0.05	23.56	23.80	1.057	0.284	22.2
Right side	20	QPSK 50_50	133322/683	1:1	0.449	0.04	23.56	23.80	1.057	0.475	22.2
Bottom side	20	QPSK 50_50	133322/683	1:1	0.178	-0.05	23.56	23.80	1.057	0.188	22.2

Table 24: SAR of LTE Band 71 for Head and Body.



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8.2.15 SAR Result of 5G NR n2

Ant2 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_26	380000/1900	100%	0.307	-0.15	23.29	24.30	1.262	0.387	22.1
Left tilted	20	QPSK 1_26	380000/1900	100%	0.145	0.08	23.29	24.30	1.262	0.183	22.1
Right cheek	20	QPSK 1_26	380000/1900	100%	0.188	0.09	23.29	24.30	1.262	0.237	22.1
Right tilted	20	QPSK 1_26	380000/1900	100%	0.137	0.11	23.29	24.30	1.262	0.173	22.1
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 25_13	372000/1860	100%	0.283	0.08	23.35	24.30	1.245	0.352	22.1
Left tilted	20	QPSK 25_13	372000/1860	100%	0.168	0.06	23.35	24.30	1.245	0.209	22.1
Right cheek	20	QPSK 25_13	372000/1860	100%	0.179	0.05	23.35	24.30	1.245	0.223	22.1
Right tilted	20	QPSK 25_13	372000/1860	100%	0.147	-0.01	23.35	24.30	1.245	0.183	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_26	380000/1900	100%	0.322	-0.12	23.29	24.30	1.262	0.406	22.1
Back side	20	QPSK 1_26	380000/1900	100%	0.447	-0.03	23.29	24.30	1.262	0.564	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 25_13	372000/1860	100%	0.335	-0.11	23.35	24.30	1.245	0.417	22.1
Back side	20	QPSK 25_13	372000/1860	100%	0.498	0.04	23.35	24.30	1.245	0.620	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_26	380000/1900	100%	0.609	-0.04	23.29	24.30	1.262	0.768	22.1
Back side	20	QPSK 1_26	380000/1900	100%	0.720	0.06	23.29	24.30	1.262	0.909	22.1
Left side	20	QPSK 1_26	380000/1900	100%	0.627	-0.05	23.29	24.30	1.262	0.791	22.1
Bottom side	20	QPSK 1_26	380000/1900	100%	0.392	0.02	23.29	24.30	1.262	0.495	22.1
Back side	20	QPSK 1_26	372000/1860	100%	0.712	-0.01	23.25	24.30	1.274	0.907	22.1
Back side	20	QPSK 1_26	376000/1880	100%	0.751	0.02	23.24	24.30	1.276	0.959	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 25_13	372000/1860	100%	0.563	0.10	23.35	24.30	1.245	0.701	22.1
Back side	20	QPSK 25_13	372000/1860	100%	0.688	-0.03	23.35	24.30	1.245	0.856	22.1
Left side	20	QPSK 25_13	372000/1860	100%	0.611	-0.04	23.35	24.30	1.245	0.760	22.1
Bottom side	20	QPSK 25_13	372000/1860	100%	0.430	-0.08	23.35	24.30	1.245	0.535	22.1
Back side	20	QPSK 25_13	376000/1880	100%	0.759	0.01	23.30	24.30	1.259	0.956	22.1
Back side	20	QPSK 25_13	380000/1900	100%	0.722	-0.05	23.32	24.30	1.253	0.905	22.1
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Back side	20	QPSK 50_0	380000/1900	100%	0.662	-0.02	22.32	23.30	1.253	0.830	22.1
Ant3 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_1	372000/1860	100%	0.544	-0.07	17.64	18.30	1.164	0.633	22.1
Left tilted	20	QPSK 1_1	372000/1860	100%	0.621	0.15	17.64	18.30	1.164	0.723	22.1
Right cheek	20	QPSK 1_1	372000/1860	100%	0.714	-0.16	17.64	18.30	1.164	0.831	22.1
Right tilted	20	QPSK 1_1	372000/1860	100%	0.800	-0.12	17.64	18.30	1.164	0.931	22.1
Right cheek	20	QPSK 1_1	376000/1880	100%	0.759	0.09	17.56	18.30	1.186	0.900	22.1
Right cheek	20	QPSK 1_1	380000/1900	100%	0.738	0.01	17.42	18.30	1.225	0.904	22.1
Right tilted	20	QPSK 1_1	376000/1880	100%	0.834	-0.15	17.56	18.30	1.186	0.989	22.1
Right tilted	20	QPSK 1_1	380000/1900	100%	0.857	0.06	17.42	18.30	1.225	1.049	22.1
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 25_13	372000/1860	100%	0.581	-0.02	17.56	18.30	1.186	0.689	22.1



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Left tilted	20	QPSK 25_13	372000/1860	100%	0.656	-0.13	17.56	18.30	1.186	0.778	22.1
Right cheek	20	QPSK 25_13	372000/1860	100%	0.749	-0.05	17.56	18.30	1.186	0.888	22.1
Right tilted	20	QPSK 25_13	372000/1860	100%	0.845	-0.06	17.56	18.30	1.186	1.002	22.1
Right cheek	20	QPSK 25_13	376000/1880	100%	0.778	0.10	17.37	18.30	1.239	0.964	22.1
Right cheek	20	QPSK 25_13	380000/1900	100%	0.738	0.10	17.42	18.30	1.225	0.904	22.1
Right tilted	20	QPSK 25_13	376000/1880	100%	0.954	0.02	17.37	18.30	1.239	1.182	22.1
Right tilted-Repeated	20	QPSK 25_13	376000/1880	100%	0.853	0.08	17.37	18.30	1.239	1.057	22.1
Right tilted	20	QPSK 25_13	380000/1900	100%	0.878	-0.13	17.42	18.30	1.225	1.075	22.1
Head Test Data ECI 4 (100%RB)											
Right tilted	20	QPSK 50_0	376000/1880	100%	0.641	0.01	16.50	17.30	1.202	0.771	22.1
Right tilted	20	QPSK 50_0	376000/1880	100%	0.723	0.07	16.50	17.30	1.202	0.869	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	372000/1860	100%	0.298	0.11	22.47	22.80	1.079	0.322	22.2
Back side	20	QPSK 1_1	372000/1860	100%	0.465	0.06	22.47	22.80	1.079	0.502	22.2
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 25_13	372000/1860	100%	0.269	-0.05	22.38	22.80	1.102	0.296	22.2
Back side	20	QPSK 25_13	372000/1860	100%	0.399	0.06	22.38	22.80	1.102	0.440	22.2
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	372000/1860	100%	0.558	-0.03	22.47	22.80	1.079	0.602	22.1
Back side	20	QPSK 1_1	372000/1860	100%	0.819	0.09	22.47	22.80	1.079	0.884	22.1
Left side	20	QPSK 1_1	372000/1860	100%	0.253	0.19	22.47	22.80	1.079	0.273	22.1
Right side	20	QPSK 1_1	372000/1860	100%	0.121	0.04	22.47	22.80	1.079	0.131	22.1
Top side	20	QPSK 1_1	372000/1860	100%	0.799	0.15	22.47	22.80	1.079	0.862	22.1
Back side	20	QPSK 1_1	376000/1880	100%	0.804	0.10	22.37	22.80	1.104	0.888	22.1
Back side	20	QPSK 1_26	380000/1900	100%	0.814	0.16	22.37	22.80	1.104	0.899	22.1
Back side-Repeated	20	QPSK 1_26	380000/1900	100%	0.714	0.00	22.37	22.80	1.104	0.788	22.1
Top side	20	QPSK 1_1	376000/1880	100%	0.762	-0.08	22.37	22.80	1.104	0.841	22.1
Top side	20	QPSK 1_26	380000/1900	100%	0.758	-0.01	22.37	22.80	1.104	0.837	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 25_13	372000/1860	100%	0.447	0.01	22.38	22.80	1.102	0.492	22.1
Back side	20	QPSK 25_13	372000/1860	100%	0.733	-0.04	22.38	22.80	1.102	0.807	22.1
Left side	20	QPSK 25_13	372000/1860	100%	0.216	-0.17	22.38	22.80	1.102	0.238	22.1
Right side	20	QPSK 25_13	372000/1860	100%	0.083	-0.15	22.38	22.80	1.102	0.092	22.1
Top side	20	QPSK 25_13	372000/1860	100%	0.666	0.02	22.38	22.80	1.102	0.734	22.1
Back side	20	QPSK 25_13	376000/1880	100%	0.691	0.09	22.32	22.80	1.117	0.772	22.1
Back side	20	QPSK 25_13	380000/1900	100%	0.650	-0.01	22.30	22.80	1.122	0.729	22.1
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Back side	20	QPSK 50_0	376000/1880	100%	0.620	-0.05	21.38	21.80	1.102	0.683	22.1
Top side	20	QPSK 50_0	376000/1880	100%	0.584	-0.01	21.38	21.80	1.102	0.643	22.1



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	376000/1880	0.954	0.853	1.118	N/A	N/A
Back side	380000/1900	0.814	0.714	1.140	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 25: SAR of 5G NR n2 for Head and Body.



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8.2.16 SAR Result of 5G NR n5

Ant1 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_26	166800/834	100%	0.276	-0.03	23.62	24.80	1.312	0.362	22.1
Left tilted	20	QPSK 1_26	166800/834	100%	0.138	0.02	23.62	24.80	1.312	0.181	22.1
Right cheek	20	QPSK 1_26	166800/834	100%	0.316	0.08	23.62	24.80	1.312	0.415	22.1
Right tilted	20	QPSK 1_26	166800/834	100%	0.172	0.07	23.62	24.80	1.312	0.226	22.1
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 25_13	166800/834	100%	0.241	0.04	23.64	24.80	1.306	0.315	22.1
Left tilted	20	QPSK 25_13	166800/834	100%	0.131	0.03	23.64	24.80	1.306	0.171	22.1
Right cheek	20	QPSK 25_13	166800/834	100%	0.313	0.06	23.64	24.80	1.306	0.409	22.1
Right tilted	20	QPSK 25_13	166800/834	100%	0.161	0.04	23.64	24.80	1.306	0.210	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_26	166800/834	100%	0.260	0.08	23.62	24.80	1.312	0.341	22.1
Back side	20	QPSK 1_26	166800/834	100%	0.268	-0.15	23.62	24.80	1.312	0.352	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 25_13	166800/834	100%	0.251	0.11	23.64	24.80	1.306	0.328	22.1
Back side	20	QPSK 25_13	166800/834	100%	0.267	0.05	23.64	24.80	1.306	0.349	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_26	166800/834	100%	0.321	0.10	23.62	24.80	1.312	0.421	22.1
Back side	20	QPSK 1_26	166800/834	100%	0.487	0.07	23.62	24.80	1.312	0.639	22.1
Left side	20	QPSK 1_26	166800/834	100%	0.234	0.14	23.62	24.80	1.312	0.307	22.1
Right side	20	QPSK 1_26	166800/834	100%	0.379	0.04	23.62	24.80	1.312	0.497	22.1
Bottom side	20	QPSK 1_26	166800/834	100%	0.395	0.13	23.62	24.80	1.312	0.518	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 25_13	166800/834	100%	0.324	0.07	23.64	24.80	1.306	0.423	22.1
Back side	20	QPSK 25_13	166800/834	100%	0.505	0.08	23.64	24.80	1.306	0.660	22.1
Left side	20	QPSK 25_13	166800/834	100%	0.237	0.08	23.64	24.80	1.306	0.310	22.1
Right side	20	QPSK 25_13	166800/834	100%	0.399	0.02	23.64	24.80	1.306	0.521	22.1
Bottom side	20	QPSK 25_13	166800/834	100%	0.386	0.03	23.64	24.80	1.306	0.504	22.1

Table 26: SAR of 5G NR n5 for Head and Body.



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8.2.17 SAR Result of 5G NR n25

Ant2 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	40	QPSK 1_104	379000/1895	100%	0.258	0.08	22.89	24.30	1.384	0.357	21.8
Left tilted	40	QPSK 1_104	379000/1895	100%	0.170	0.05	22.89	24.30	1.384	0.235	21.8
Right cheek	40	QPSK 1_104	379000/1895	100%	0.183	0.04	22.89	24.30	1.384	0.253	21.8
Right tilted	40	QPSK 1_104	379000/1895	100%	0.125	0.00	22.89	24.30	1.384	0.173	21.8
Head Test Data ECI 4 (50%RB)											
Left cheek	40	QPSK 50_28	376500/1882.5	100%	0.276	0.10	22.90	24.30	1.380	0.381	21.8
Left tilted	40	QPSK 50_28	376500/1882.5	100%	0.156	0.10	22.90	24.30	1.380	0.215	21.8
Right cheek	40	QPSK 50_28	376500/1882.5	100%	0.146	0.05	22.90	24.30	1.380	0.202	21.8
Right tilted	40	QPSK 50_28	376500/1882.5	100%	0.116	-0.09	22.90	24.30	1.380	0.160	21.8
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	40	QPSK 1_104	379000/1895	100%	0.281	0.09	22.89	24.30	1.384	0.389	21.8
Back side	40	QPSK 1_104	379000/1895	100%	0.349	-0.03	22.89	24.30	1.384	0.483	21.8
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	376500/1882.5	100%	0.281	-0.01	22.90	24.30	1.380	0.388	21.8
Back side	40	QPSK 50_28	376500/1882.5	100%	0.385	-0.03	22.90	24.30	1.380	0.531	21.8
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	40	QPSK 1_104	379000/1895	100%	0.500	0.10	22.89	24.30	1.384	0.692	21.8
Back side	40	QPSK 1_104	379000/1895	100%	0.653	0.06	22.89	24.30	1.384	0.903	21.8
Left side	40	QPSK 1_104	379000/1895	100%	0.466	0.17	22.89	24.30	1.384	0.645	21.8
Bottom side	40	QPSK 1_104	379000/1895	100%	0.316	0.08	22.89	24.30	1.384	0.437	21.8
Back side	40	QPSK 1_104	374000/1870	100%	0.633	-0.04	22.80	24.30	1.413	0.894	21.8
Back side	40	QPSK 1_53	376500/1882.5	100%	0.659	0.02	22.83	24.30	1.403	0.924	21.8
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	376500/1882.5	100%	0.527	-0.03	22.90	24.30	1.380	0.727	21.8
Back side	40	QPSK 50_28	376500/1882.5	100%	0.670	-0.02	22.90	24.30	1.380	0.925	21.8
Left side	40	QPSK 50_28	376500/1882.5	100%	0.452	-0.02	22.90	24.30	1.380	0.624	21.8
Bottom side	40	QPSK 50_28	376500/1882.5	100%	0.339	-0.01	22.90	24.30	1.380	0.468	21.8
Back side	40	QPSK 50_28	374000/1870	100%	0.674	-0.11	22.82	24.30	1.406	0.948	21.8
Back side	40	QPSK 50_28	379000/1895	100%	0.636	-0.02	22.87	24.30	1.390	0.884	21.8
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Back side	40	QPSK 100_0	376500/1882.5	100%	0.605	0.01	21.86	23.30	1.393	0.843	21.8
Ant3 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	40	QPSK 1_53	376500/1882.5	100%	0.594	-0.01	18.01	18.80	1.199	0.713	21.8
Left tilted	40	QPSK 1_53	376500/1882.5	100%	0.664	-0.04	18.01	18.80	1.199	0.796	21.8
Right cheek	40	QPSK 1_53	376500/1882.5	100%	0.860	0.11	18.01	18.80	1.199	1.032	21.8
Right tilted	40	QPSK 1_53	376500/1882.5	100%	0.958	0.04	18.01	18.80	1.199	1.149	21.8
Right cheek	40	QPSK 1_104	374000/1870	100%	0.954	-0.01	18.01	18.80	1.199	1.144	21.8
Right cheek	40	QPSK 1_104	379000/1895	100%	0.933	-0.03	17.99	18.80	1.205	1.124	21.8
Right tilted	40	QPSK 1_104	374000/1870	100%	0.944	0.02	18.01	18.80	1.199	1.132	21.8
Right tilted	40	QPSK 1_104	379000/1895	100%	0.920	0.09	17.99	18.80	1.205	1.109	21.8
Head Test Data ECI 4 (50%RB)											
Left cheek	40	QPSK 50_28	376500/1882.5	100%	0.557	0.02	18.06	18.80	1.186	0.660	21.8



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Left tilted	40	QPSK 50_28	376500/1882.5	100%	0.669	0.11	18.06	18.80	1.186	0.793	21.8
Right cheek	40	QPSK 50_28	376500/1882.5	100%	0.929	-0.15	18.06	18.80	1.186	1.102	21.8
Right tilted	40	QPSK 50_28	376500/1882.5	100%	0.967	-0.12	18.06	18.80	1.186	1.147	21.8
Right cheek	40	QPSK 50_28	374000/1870	100%	0.966	0.00	18.04	18.80	1.191	1.151	21.8
Right cheek	40	QPSK 50_28	379000/1895	100%	0.972	0.02	17.84	18.80	1.247	1.212	21.8
Right tilted	40	QPSK 50_28	374000/1870	100%	0.948	-0.08	18.04	18.80	1.191	1.129	21.8
Right tilted	40	QPSK 50_28	379000/1895	100%	0.989	0.01	17.84	18.80	1.247	1.234	21.8
Right tilted-Repeated	40	QPSK 50_28	379000/1895	100%	0.979	-0.02	17.84	18.80	1.247	1.221	21.8
Head Test Data ECI 4 (100%RB)											
Right cheek	40	QPSK 100_0	376500/1882.5	100%	0.630	-0.02	17.15	17.80	1.161	0.732	21.8
Right tilted	40	QPSK 100_0	376500/1882.5	100%	0.800	-0.03	17.15	17.80	1.161	0.929	21.8
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	40	QPSK 1_1	376500/1882.5	100%	0.242	0.16	21.96	22.80	1.213	0.294	21.8
Back side	40	QPSK 1_1	376500/1882.5	100%	0.336	-0.02	21.96	22.80	1.213	0.408	21.8
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	376500/1882.5	100%	0.244	-0.04	21.96	22.80	1.213	0.296	21.8
Back side	40	QPSK 50_28	376500/1882.5	100%	0.326	0.09	21.96	22.80	1.213	0.396	21.8
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	40	QPSK 1_1	376500/1882.5	100%	0.445	0.11	21.96	22.80	1.213	0.540	21.8
Back side	40	QPSK 1_1	376500/1882.5	100%	0.634	0.12	21.96	22.80	1.213	0.769	21.8
Left side	40	QPSK 1_1	376500/1882.5	100%	0.200	-0.06	21.96	22.80	1.213	0.243	21.8
Right side	40	QPSK 1_1	376500/1882.5	100%	0.077	0.01	21.96	22.80	1.213	0.094	21.8
Top side	40	QPSK 1_1	376500/1882.5	100%	0.725	0.05	21.96	22.80	1.213	0.880	21.8
Top side	40	QPSK 1_1	374000/1870	100%	0.558	0.02	21.90	22.80	1.230	0.686	21.8
Top side	40	QPSK 1_53	379000/1895	100%	0.568	0.06	21.81	22.80	1.256	0.713	21.8
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	376500/1882.5	100%	0.444	0.03	21.96	22.80	1.213	0.539	21.8
Back side	40	QPSK 50_28	376500/1882.5	100%	0.591	-0.01	21.96	22.80	1.213	0.717	21.8
Left side	40	QPSK 50_28	376500/1882.5	100%	0.185	0.05	21.96	22.80	1.213	0.224	21.8
Right side	40	QPSK 50_28	376500/1882.5	100%	0.059	-0.04	21.96	22.80	1.213	0.072	21.8
Top side	40	QPSK 50_28	376500/1882.5	100%	0.735	0.03	21.96	22.80	1.213	0.892	21.8
Top side	40	QPSK 50_28	374000/1870	100%	0.716	-0.03	21.88	22.80	1.236	0.885	21.8
Top side	40	QPSK 50_28	379000/1895	100%	0.669	0.13	21.79	22.80	1.262	0.844	21.8
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Top side	40	QPSK 100_0	376500/1882.5	100%	0.598	0.03	21.03	21.80	1.194	0.714	21.8

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	379000/1895	0.989	0.979	1.010214505	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 27: SAR of 5G NR n25 for Head and Body.



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8.2.18 SAR Result of 5G NR n26

Ant 1 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_1	167800/839	100%	0.276	-0.02	23.64	24.80	1.306	0.361	22.1
Left tilted	20	QPSK 1_1	167800/839	100%	0.135	0.07	23.64	24.80	1.306	0.176	22.1
Right cheek	20	QPSK 1_1	167800/839	100%	0.293	0.03	23.64	24.80	1.306	0.383	22.1
Right tilted	20	QPSK 1_1	167800/839	100%	0.160	0.11	23.64	24.80	1.306	0.209	22.1
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 25_13	166300/831.5	100%	0.262	0.03	23.66	24.80	1.300	0.341	22.1
Left tilted	20	QPSK 25_13	166300/831.5	100%	0.136	0.06	23.66	24.80	1.300	0.177	22.1
Right cheek	20	QPSK 25_13	166300/831.5	100%	0.298	0.02	23.66	24.80	1.300	0.387	22.1
Right tilted	20	QPSK 25_13	166300/831.5	100%	0.157	0.04	23.66	24.80	1.300	0.204	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	167800/839	100%	0.281	-0.09	23.64	24.80	1.306	0.367	22.1
Back side	20	QPSK 1_1	167800/839	100%	0.247	-0.05	23.64	24.80	1.306	0.323	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 25_13	166300/831.5	100%	0.280	0.17	23.66	24.80	1.300	0.364	22.1
Back side	20	QPSK 25_13	166300/831.5	100%	0.275	0.11	23.66	24.80	1.300	0.358	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	167800/839	100%	0.323	0.10	23.64	24.80	1.306	0.422	22.1
Back side	20	QPSK 1_1	167800/839	100%	0.466	0.03	23.64	24.80	1.306	0.609	22.1
Left side	20	QPSK 1_1	167800/839	100%	0.249	0.04	23.64	24.80	1.306	0.325	22.1
Right side	20	QPSK 1_1	167800/839	100%	0.397	0.01	23.64	24.80	1.306	0.519	22.1
Bottom side	20	QPSK 1_1	167800/839	100%	0.386	0.07	23.64	24.80	1.306	0.504	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 25_13	166300/831.5	100%	0.280	-0.10	23.66	24.80	1.300	0.364	22.1
Back side	20	QPSK 25_13	166300/831.5	100%	0.541	0.04	23.66	24.80	1.300	0.703	22.1
Left side	20	QPSK 25_13	166300/831.5	100%	0.226	-0.18	23.66	24.80	1.300	0.294	22.1
Right side	20	QPSK 25_13	166300/831.5	100%	0.402	-0.03	23.66	24.80	1.300	0.523	22.1
Bottom side	20	QPSK 25_13	166300/831.5	100%	0.368	0.06	23.66	24.80	1.300	0.478	22.1

Table 28: SAR of 5G NR n26 for Head and Body.



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8.2.19 SAR Result of 5G NR n30

Ant3 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	10	QPSK 1_1	462000/2310	100%	0.414	0.03	14.28	14.80	1.127	0.467	22.1
Left tilted	10	QPSK 1_1	462000/2310	100%	0.537	0.02	14.28	14.80	1.127	0.605	22.1
Right cheek	10	QPSK 1_1	462000/2310	100%	0.752	-0.08	14.28	14.80	1.127	0.848	22.1
Right tilted	10	QPSK 1_1	462000/2310	100%	0.933	0.08	14.28	14.80	1.127	1.052	22.1
Right tilted-Repeated	10	QPSK 1_1	462000/2310	100%	0.878	-0.08	14.28	14.80	1.127	0.990	22.1
Head Test Data ECI 4 (50%RB)											
Left cheek	10	QPSK 12_6	462000/2310	100%	0.449	0.02	14.15	14.80	1.161	0.521	22.1
Left tilted	10	QPSK 12_6	462000/2310	100%	0.571	0.05	14.15	14.80	1.161	0.663	22.1
Right cheek	10	QPSK 12_6	462000/2310	100%	0.845	0.02	14.15	14.80	1.161	0.981	22.1
Right tilted	10	QPSK 12_6	462000/2310	100%	0.898	0.09	14.15	14.80	1.161	1.043	22.1
Head Test Data ECI 4 (100%RB)											
Right cheek	10	QPSK 24_0	462000/2310	100%	0.723	-0.08	13.02	13.80	1.197	0.865	22.1
Right tilted	10	QPSK 24_0	462000/2310	100%	0.754	0.11	13.02	13.80	1.197	0.902	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	10	QPSK 1_1	462000/2310	100%	0.301	0.18	21.94	22.30	1.086	0.327	22.1
Back side	10	QPSK 1_1	462000/2310	100%	0.654	-0.02	21.94	22.30	1.086	0.711	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	10	QPSK 12_6	462000/2310	100%	0.381	0.08	21.88	22.30	1.102	0.420	22.1
Back side	10	QPSK 12_6	462000/2310	100%	0.700	0.03	21.88	22.30	1.102	0.771	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	10	QPSK 1_1	462000/2310	100%	0.346	0.07	18.46	18.80	1.081	0.374	22.1
Back side	10	QPSK 1_1	462000/2310	100%	0.735	0.03	18.46	18.80	1.081	0.795	22.1
Left side	10	QPSK 1_1	462000/2310	100%	0.052	0.09	18.46	18.80	1.081	0.056	22.1
Right side	10	QPSK 1_1	462000/2310	100%	0.016	-0.11	18.46	18.80	1.081	0.017	22.1
Top side	10	QPSK 1_1	462000/2310	100%	0.769	0.08	18.46	18.80	1.081	0.832	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	10	QPSK 12_6	462000/2310	100%	0.347	0.03	18.44	18.80	1.086	0.377	22.1
Back side	10	QPSK 12_6	462000/2310	100%	0.799	0.04	18.44	18.80	1.086	0.868	22.1
Left side	10	QPSK 12_6	462000/2310	100%	0.052	0.09	18.44	18.80	1.086	0.056	22.1
Right side	10	QPSK 12_6	462000/2310	100%	0.016	0.01	18.44	18.80	1.086	0.017	22.1
Top side	10	QPSK 12_6	462000/2310	100%	0.848	0.01	18.44	18.80	1.086	0.921	22.1
Top side-Repeated	10	QPSK 12_6	462000/2310	100%	0.833	0.06	18.44	18.80	1.086	0.905	22.1
Hotspot Test data ECI 3 (Separate 10mm 100%RB)											
Back side	10	QPSK 24_0	462000/2310	100%	0.551	0.06	17.26	17.80	1.132	0.624	22.1
Top side	10	QPSK 24_0	462000/2310	100%	0.622	0.17	17.26	17.80	1.132	0.704	22.1
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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data ECI 1 (Separate 0mm 1RB)											
Back side	10	QPSK 1_1	462000/2310	100%	1.880	0.08	21.94	22.30	1.086	2.042	22.1



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Top side	10	QPSK 1_1	462000/2310	100%	2.060	-0.01	21.94	22.30	1.086	2.238	22.1
Product specific 10g SAR Test data ECI 1 (Separate 0mm 50%RB)											
Back side	10	QPSK 12_6	462000/2310	100%	2.130	0.01	21.88	22.30	1.102	2.346	22.1
Back side-Repeated	10	QPSK 12_6	462000/2310	100%	2.100	0.11	21.88	22.30	1.102	2.313	22.1
Top side	10	QPSK 12_6	462000/2310	100%	2.040	-0.08	21.88	22.30	1.102	2.247	22.1
Product specific 10g SAR Test data ECI 1 (Separate 0mm 100%RB)											
Back side	10	QPSK 24_0	462000/2310	100%	1.850	0.09	20.76	21.30	1.132	2.095	22.1
Top side	10	QPSK 24_0	462000/2310	100%	1.960	0.13	20.76	21.30	1.132	2.220	22.1

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	462000/2310	0.933	0.878	1.063	N/A	N/A
Top side	462000/2310	0.848	0.833	1.018	N/A	N/A
Back side	462000/2310	2.130	2.100	1.014	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 29: SAR of 5G NR n30 for Head and Body and Product specific 10g.



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8.2.20 SAR Result of 5G NR n41

Ant1 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_1	518598/2592.99	50%	1.000	0.026	0.00	25.85	26.00	1.035	0.027	22.1
Left tilted	100	QPSK 1_1	518598/2592.99	50%	1.000	0.001	0.09	25.85	26.00	1.035	0.001	22.1
Right cheek	100	QPSK 1_1	518598/2592.99	50%	1.000	0.001	0.09	25.85	26.00	1.035	0.001	22.1
Right tilted	100	QPSK 1_1	518598/2592.99	50%	1.000	0.001	0.09	25.85	26.00	1.035	0.001	22.1
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	518598/2592.99	50%	1.000	0.041	0.01	24.85	26.00	1.303	0.054	22.1
Left tilted	100	QPSK 135_69	518598/2592.99	50%	1.000	0.029	0.08	24.85	26.00	1.303	0.038	22.1
Right cheek	100	QPSK 135_69	518598/2592.99	50%	1.000	0.001	0.09	24.85	26.00	1.303	0.001	22.1
Right tilted	100	QPSK 135_69	518598/2592.99	50%	1.000	0.007	0.03	24.85	26.00	1.303	0.009	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_1	518598/2592.99	50%	1.000	0.379	-0.08	25.85	26.00	1.035	0.392	22.1
Back side	100	QPSK 1_1	518598/2592.99	50%	1.000	0.356	0.08	25.85	26.00	1.035	0.369	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	518598/2592.99	50%	1.000	0.302	0.09	24.85	26.00	1.303	0.394	22.1
Back side	100	QPSK 135_69	518598/2592.99	50%	1.000	0.368	0.05	24.85	26.00	1.303	0.480	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_1	518598/2592.99	77%	1.039	0.535	-0.14	21.72	21.80	1.019	0.566	22.1
Back side	100	QPSK 1_1	518598/2592.99	77%	1.039	0.722	0.17	21.72	21.80	1.019	0.764	22.1
Left side	100	QPSK 1_1	518598/2592.99	77%	1.039	0.067	-0.13	21.72	21.80	1.019	0.071	22.1
Right side	100	QPSK 1_1	518598/2592.99	77%	1.039	0.195	0.03	21.72	21.80	1.019	0.207	22.1
Bottom side	100	QPSK 1_1	518598/2592.99	77%	1.039	0.986	-0.18	21.72	21.80	1.019	1.043	22.1
Bottom side-Repeated	100	QPSK 1_1	518598/2592.99	77%	1.039	0.921	-0.19	21.72	21.80	1.019	0.975	22.1
Back side	100	QPSK 1_1	509202/2546.01	77%	1.039	0.590	0.03	21.68	21.80	1.028	0.631	22.1
Back side	100	QPSK 1_1	513900/2569.5	77%	1.039	0.663	0.05	21.67	21.80	1.030	0.710	22.1
Back side	100	QPSK 1_1	523302/2616.51	77%	1.039	0.668	0.15	21.70	21.80	1.023	0.711	22.1
Back side	100	QPSK 1_1	528000/2640	77%	1.039	0.792	0.02	21.67	21.80	1.030	0.848	22.1
Bottom side	100	QPSK 1_1	509202/2546.01	77%	1.039	0.770	-0.02	21.68	21.80	1.028	0.823	22.1
Bottom side	100	QPSK 1_1	513900/2569.5	77%	1.039	0.920	-0.09	21.67	21.80	1.030	0.985	22.1
Bottom side	100	QPSK 1_1	523302/2616.51	77%	1.039	0.960	-0.14	21.70	21.80	1.023	1.020	22.1
Bottom side	100	QPSK 1_1	528000/2640	77%	1.039	0.910	-0.06	21.67	21.80	1.030	0.975	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.558	0.06	20.95	21.80	1.216	0.705	22.1
Back side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.787	-0.08	20.95	21.80	1.216	0.994	22.1
Left side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.083	0.11	20.95	21.80	1.216	0.105	22.1
Right side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.219	-0.17	20.95	21.80	1.216	0.276	22.1
Bottom side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.969	-0.09	20.95	21.80	1.216	1.224	22.1
Front side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.486	0.05	20.91	21.80	1.227	0.620	22.1
Front side	100	QPSK 135_69	513900/2569.5	77%	1.039	0.558	-0.03	20.86	21.80	1.242	0.720	22.1
Front side	100	QPSK 135_69	523302/2616.51	77%	1.039	0.573	-0.08	20.93	21.80	1.222	0.727	22.1
Front side	100	QPSK 135_69	528000/2640	77%	1.039	0.558	0.03	20.89	21.80	1.233	0.715	22.1
Back side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.712	0.09	20.91	21.80	1.227	0.908	22.1
Back side	100	QPSK 135_69	513900/2569.5	77%	1.039	0.721	0.15	20.86	21.80	1.242	0.930	22.1
Back side	100	QPSK 135_69	523302/2616.51	77%	1.039	0.676	0.04	20.93	21.80	1.222	0.858	22.1
Back side	100	QPSK 135_69	528000/2640	77%	1.039	0.792	0.04	20.89	21.80	1.233	1.015	22.1
Bottom side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.931	0.06	20.91	21.80	1.227	1.188	22.1
Bottom side	100	QPSK 135_69	513900/2569.5	77%	1.039	0.934	-0.09	20.86	21.80	1.242	1.205	22.1
Bottom side	100	QPSK 135_69	523302/2616.51	77%	1.039	0.851	-0.02	20.93	21.80	1.222	1.081	22.1
Bottom side	100	QPSK 135_69	528000/2640	77%	1.039	0.951	0.13	20.89	21.80	1.233	1.219	22.1
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												



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Test position	BW.	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 10-g SAR(W/kg)	Liquid Temp.
Back side	100	QPSK 270_0	509202/2546.01	77%	1.039	0.505	-0.13	20.33	20.80	1.114	0.585	22.1
Bottom side	100	QPSK 270_0	509202/2546.01	77%	1.039	0.865	0.07	20.33	20.80	1.114	1.002	22.1
Product specific 10g SAR Test data ECI 1 (Separate 0mm 1RB)												
Back side	100	QPSK 1_1	518598/2592.99	50%	1.000	2.150	0.00	25.85	26.00	1.035	2.226	22.1
Bottom side	100	QPSK 1_1	518598/2592.99	50%	1.000	1.960	-0.18	25.85	26.00	1.035	2.029	22.1
Back side	100	QPSK 1_1	509202/2546.01	50%	1.000	2.060	0.13	25.70	26.00	1.072	2.207	22.1
Back side	100	QPSK 1_1	513900/2569.5	50%	1.000	2.210	0.06	25.68	26.00	1.076	2.379	22.1
Back side	100	QPSK 1_1	523302/2616.51	50%	1.000	1.710	0.11	25.64	26.00	1.086	1.858	22.1
Back side	100	QPSK 1_1	528000/2640	50%	1.000	1.900	0.14	25.62	26.00	1.091	2.074	22.1
Bottom side	100	QPSK 1_1	509202/2546.01	50%	1.000	2.400	-0.09	25.70	26.00	1.072	2.572	22.1
Bottom side-Repeated	100	QPSK 1_1	509202/2546.01	50%	1.000	2.340	-0.01	25.70	26.00	1.072	2.507	22.1
Bottom side	100	QPSK 1_1	513900/2569.5	50%	1.000	2.250	0.01	25.68	26.00	1.076	2.422	22.1
Bottom side	100	QPSK 1_1	523302/2616.51	50%	1.000	1.760	0.06	25.64	26.00	1.086	1.912	22.1
Bottom side	100	QPSK 1_1	528000/2640	50%	1.000	1.930	-0.04	25.62	26.00	1.091	2.106	22.1
Product specific 10g SAR Test data ECI 1 (Separate 0mm 50%RB)												
Back side	100	QPSK 135_69	518598/2592.99	50%	1.000	1.700	0.03	24.85	26.00	1.303	2.215	22.1
Bottom side	100	QPSK 135_69	518598/2592.99	50%	1.000	1.950	-0.01	24.85	26.00	1.303	2.541	22.1
Back side	100	QPSK 135_69	509202/2546.01	50%	1.000	1.920	0.09	24.63	26.00	1.371	2.632	22.1
Back side	100	QPSK 135_69	513900/2569.5	50%	1.000	1.990	-0.17	24.65	26.00	1.365	2.716	22.1
Back side	100	QPSK 135_69	523302/2616.51	50%	1.000	1.640	0.06	24.68	26.00	1.355	2.223	22.1
Back side	100	QPSK 135_69	528000/2640	50%	1.000	1.930	-0.02	24.61	26.00	1.377	2.658	22.1
Bottom side	100	QPSK 135_69	509202/2546.01	50%	1.000	2.080	-0.03	24.63	26.00	1.371	2.851	22.1
Bottom side	100	QPSK 135_69	513900/2569.5	50%	1.000	2.050	-0.18	24.65	26.00	1.365	2.797	22.1
Bottom side	100	QPSK 135_69	523302/2616.51	50%	1.000	1.660	0.08	24.68	26.00	1.355	2.250	22.1
Bottom side	100	QPSK 135_69	528000/2640	50%	1.000	1.860	0.14	24.61	26.00	1.377	2.562	22.1
Product specific 10g SAR Test data ECI 1 (Separate 0mm 100%RB)												
Back side	100	QPSK 270_0	518598/2592.99	50%	1.000	1.770	0.11	24.22	25.00	1.197	2.118	22.1
Bottom side	100	QPSK 270_0	518598/2592.99	50%	1.000	1.530	-0.09	24.22	25.00	1.197	1.831	22.1
Ant3 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_137	513900/2569.5	77%	1.039	0.234	0.04	15.14	16.00	1.219	0.296	22.1
Left tilted	100	QPSK 1_137	513900/2569.5	77%	1.039	0.314	-0.12	15.14	16.00	1.219	0.398	22.1
Right cheek	100	QPSK 1_137	513900/2569.5	77%	1.039	0.620	0.15	15.14	16.00	1.219	0.785	22.1
Right tilted	100	QPSK 1_137	513900/2569.5	77%	1.039	0.777	-0.16	15.14	16.00	1.219	0.984	22.1
Right cheek	100	QPSK 1_137	509202/2546.01	77%	1.039	0.616	-0.03	15.10	16.00	1.230	0.788	22.1
Right cheek	100	QPSK 1_137	518598/2592.99	77%	1.039	0.668	-0.15	15.09	16.00	1.233	0.856	22.1
Right cheek	100	QPSK 1_137	523302/2616.51	77%	1.039	0.628	0.01	14.86	16.00	1.300	0.849	22.1
Right cheek	100	QPSK 1_137	528000/2640	77%	1.039	0.578	0.14	14.79	16.00	1.321	0.794	22.1
Right tilted	100	QPSK 1_137	509202/2546.01	77%	1.039	0.762	0.16	15.10	16.00	1.230	0.974	22.1
Right tilted	100	QPSK 1_137	518598/2592.99	77%	1.039	0.737	-0.10	15.09	16.00	1.233	0.944	22.1
Right tilted	100	QPSK 1_137	523302/2616.51	77%	1.039	0.642	0.12	14.86	16.00	1.300	0.868	22.1
Right tilted	100	QPSK 1_137	528000/2640	77%	1.039	0.654	-0.03	14.79	16.00	1.321	0.898	22.1
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	509202/2546.01	77%	1.039	0.246	-0.01	15.11	16.00	1.227	0.314	22.1
Left tilted	100	QPSK 135_69	509202/2546.01	77%	1.039	0.349	-0.14	15.11	16.00	1.227	0.445	22.1
Right cheek	100	QPSK 135_69	509202/2546.01	77%	1.039	0.699	-0.08	15.11	16.00	1.227	0.891	22.1
Right tilted	100	QPSK 135_69	509202/2546.01	77%	1.039	0.782	0.09	15.11	16.00	1.227	0.997	22.1
Right cheek	100	QPSK 135_69	518598/2592.99	77%	1.039	0.632	-0.11	14.97	16.00	1.268	0.832	22.1
Right cheek	100	QPSK 135_69	513900/2569.5	77%	1.039	0.673	-0.15	14.90	16.00	1.288	0.901	22.1
Right cheek	100	QPSK 135_69	523302/2616.51	77%	1.039	0.649	0.12	14.75	16.00	1.334	0.899	22.1
Right cheek	100	QPSK 135_69	528000/2640	77%	1.039	0.597	0.03	14.82	16.00	1.312	0.814	22.1



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Right tilted	100	QPSK 135_69	518598/2592.99	77%	1.039	0.757	0.12	14.97	16.00	1.268	0.997	22.1
Right tilted	100	QPSK 135_69	513900/2569.5	77%	1.039	0.749	0.01	14.90	16.00	1.288	1.003	22.1
Right tilted	100	QPSK 135_69	523302/2616.51	77%	1.039	0.706	-0.05	14.75	16.00	1.334	0.978	22.1
Right tilted	100	QPSK 135_69	528000/2640	77%	1.039	0.597	-0.06	14.82	16.00	1.312	0.814	22.1
Head Test Data ECI 4 (100%RB)												
Right cheek	100	QPSK 270_0	509202/2546.01	77%	1.039	0.478	0.01	14.29	15.00	1.178	0.585	22.1
Right tilted	100	QPSK 270_0	509202/2546.01	77%	1.039	0.571	0.11	14.29	15.00	1.178	0.698	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.209	0.12	19.97	21.00	1.268	0.275	22.1
Back side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.477	-0.02	19.97	21.00	1.268	0.629	22.1
Back side	100	QPSK 1_137	513900/2569.5	77%	1.039	0.450	0.08	19.92	21.00	1.282	0.600	22.1
Back side	100	QPSK 1_137	518598/2592.99	77%	1.039	0.448	0.16	19.86	21.00	1.300	0.605	22.1
Back side	100	QPSK 1_137	523302/2616.51	77%	1.039	0.415	-0.12	19.82	21.00	1.312	0.566	22.1
Back side	100	QPSK 1_137	528000/2640	77%	1.039	0.377	-0.14	19.66	21.00	1.361	0.533	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.219	0.02	19.97	21.00	1.268	0.289	22.1
Back side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.562	0.03	19.97	21.00	1.268	0.740	22.1
Back side	100	QPSK 135_69	513900/2569.5	77%	1.039	0.459	0.01	19.74	21.00	1.337	0.637	22.1
Back side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.452	-0.14	19.86	21.00	1.300	0.611	22.1
Back side	100	QPSK 135_69	523302/2616.51	77%	1.039	0.428	-0.06	19.88	21.00	1.294	0.576	22.1
Back side	100	QPSK 135_69	528000/2640	77%	1.039	0.385	0.03	19.61	21.00	1.377	0.551	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.241	0.01	17.71	18.50	1.199	0.300	22.1
Back side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.576	-0.06	17.71	18.50	1.199	0.718	22.1
Left side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.113	-0.11	17.71	18.50	1.199	0.141	22.1
Right side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.001	0.03	17.71	18.50	1.199	0.001	22.1
Top side	100	QPSK 1_137	509202/2546.01	77%	1.039	0.796	0.07	17.71	18.50	1.199	0.992	22.1
Back side	100	QPSK 1_137	513900/2569.5	77%	1.039	0.560	-0.05	17.59	18.50	1.233	0.718	22.1
Back side	100	QPSK 1_137	518598/2592.99	77%	1.039	0.576	0.00	17.69	18.50	1.205	0.721	22.1
Back side	100	QPSK 1_137	523302/2616.51	77%	1.039	0.527	0.04	17.52	18.50	1.253	0.686	22.1
Back side	100	QPSK 1_137	528000/2640	77%	1.039	0.475	-0.03	17.30	18.50	1.318	0.650	22.1
Top side	100	QPSK 1_137	513900/2569.5	77%	1.039	0.734	-0.14	17.59	18.50	1.233	0.940	22.1
Top side	100	QPSK 1_137	518598/2592.99	77%	1.039	0.831	-0.16	17.69	18.50	1.205	1.040	22.1
Top side	100	QPSK 1_137	523302/2616.51	77%	1.039	0.646	-0.08	17.52	18.50	1.253	0.842	22.1
Top side	100	QPSK 1_137	528000/2640	77%	1.039	0.621	-0.17	17.30	18.50	1.318	0.851	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.252	0.01	17.62	18.50	1.225	0.321	22.1
Back side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.652	0.00	17.62	18.50	1.225	0.829	22.1
Left side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.112	0.07	17.62	18.50	1.225	0.142	22.1
Right side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.000	0.10	17.62	18.50	1.225	0.000	22.1
Top side	100	QPSK 135_69	509202/2546.01	77%	1.039	0.786	-0.01	17.62	18.50	1.225	1.001	22.1
Back side	100	QPSK 135_69	513900/2569.5	77%	1.039	0.575	-0.01	17.48	18.50	1.265	0.755	22.1
Back side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.588	-0.17	17.61	18.50	1.227	0.750	22.1
Back side	100	QPSK 135_69	523302/2616.51	77%	1.039	0.546	0.10	17.57	18.50	1.239	0.702	22.1
Back side	100	QPSK 135_69	528000/2640	77%	1.039	0.487	-0.15	17.49	18.50	1.262	0.639	22.1
Top side	100	QPSK 135_69	513900/2569.5	77%	1.039	0.802	0.17	17.48	18.50	1.265	1.054	22.1
Top side	100	QPSK 135_69	518598/2592.99	77%	1.039	0.873	0.07	17.61	18.50	1.227	1.114	22.1
Top side-Repeated	100	QPSK 135_69	518598/2592.99	77%	1.039	0.830	-0.05	17.61	18.50	1.227	1.059	22.1
Top side	100	QPSK 135_69	523302/2616.51	77%	1.039	0.820	0.09	17.57	18.50	1.239	1.056	22.1
Top side	100	QPSK 135_69	528000/2640	77%	1.039	0.607	0.06	17.49	18.50	1.262	0.796	22.1
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												
Back side	100	QPSK 270_0	509202/2546.01	77%	1.039	0.503	-0.08	16.68	17.50	1.208	0.632	22.1
Top side	100	QPSK 270_0	509202/2546.01	77%	1.039	0.650	0.10	16.68	17.50	1.208	0.816	22.1
Test position	BW.	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 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data ECI 1 (Separate 0mm 1RB)												
Back side	100	QPSK 1_137	509202/2546.01	77%	1.039	2.000	0.10	19.97	21.00	1.268	2.634	22.1



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Top side	100	QPSK 1_137	509202/2546.01	77%	1.039	1.100	0.13	19.97	21.00	1.268	1.448	22.1
Back side	100	QPSK 1_137	513900/2569.5	77%	1.039	1.950	-0.15	19.92	21.00	1.282	2.599	22.1
Back side	100	QPSK 1_137	518598/2592.99	77%	1.039	1.920	0.05	19.86	21.00	1.300	2.593	22.1
Back side	100	QPSK 1_137	523302/2616.51	77%	1.039	1.810	-0.08	19.82	21.00	1.312	2.468	22.1
Back side	100	QPSK 1_137	528000/2640	77%	1.039	1.750	0.08	19.66	21.00	1.361	2.476	22.1
Product specific 10g SAR Test data ECI 1 (Separate 0mm 50%RB)												
Back side	100	QPSK 135_69	509202/2546.01	77%	1.039	2.300	-0.03	19.97	21.00	1.268	3.030	22.1
Back side-Repeated	100	QPSK 135_69	509202/2546.01	77%	1.039	2.250	0.13	19.97	21.00	1.268	2.963	22.1
Top side	100	QPSK 135_69	509202/2546.01	77%	1.039	1.130	0.14	19.97	21.00	1.268	1.488	22.1
Back side	100	QPSK 135_69	523302/2616.51	77%	1.039	1.910	0.09	19.88	21.00	1.294	2.568	22.1
Back side	100	QPSK 135_69	518598/2592.99	77%	1.039	2.030	0.01	19.86	21.00	1.300	2.742	22.1
Back side	100	QPSK 135_69	513900/2569.5	77%	1.039	2.050	0.03	19.74	21.00	1.337	2.847	22.1
Back side	100	QPSK 135_69	528000/2640	77%	1.039	1.790	0.18	19.61	21.00	1.377	2.561	22.1
Product specific 10g SAR Test data ECI 1 (Separate 0mm 100%RB)												
Back side	100	QPSK 270_0	513900/2569.5	77%	1.039	1.580	0.03	19.07	20.00	1.239	2.033	22.1
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_1	513900/2569.5	50%	1.000	0.342	-0.11	24.55	25.30	1.189	0.406	22.1
Left tilted	100	QPSK 1_1	513900/2569.5	50%	1.000	0.127	-0.15	24.55	25.30	1.189	0.151	22.1
Right cheek	100	QPSK 1_1	513900/2569.5	50%	1.000	0.543	0.07	24.55	25.30	1.189	0.645	22.1
Right tilted	100	QPSK 1_1	513900/2569.5	50%	1.000	0.170	0.13	24.55	25.30	1.189	0.202	22.1
Right cheek	100	QPSK 1_1	509202/2546.01	50%	1.000	0.541	0.04	24.36	25.30	1.242	0.672	22.1
Right cheek	100	QPSK 1_1	518598/2592.99	50%	1.000	0.458	-0.17	24.38	25.30	1.236	0.566	22.1
Right cheek	100	QPSK 1_1	523302/2616.51	50%	1.000	0.449	0.08	24.06	25.30	1.330	0.597	22.1
Right cheek	100	QPSK 1_1	528000/2640	50%	1.000	0.403	-0.11	23.82	25.30	1.406	0.567	22.1
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	509202/2546.01	50%	1.000	0.253	0.06	24.45	25.30	1.216	0.308	22.1
Left tilted	100	QPSK 135_69	509202/2546.01	50%	1.000	0.087	-0.02	24.45	25.30	1.216	0.106	22.1
Right cheek	100	QPSK 135_69	509202/2546.01	50%	1.000	0.490	0.14	24.45	25.30	1.216	0.596	22.1
Right tilted	100	QPSK 135_69	509202/2546.01	50%	1.000	0.151	0.05	24.45	25.30	1.216	0.184	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.099	0.17	24.55	25.30	1.189	0.118	22.1
Back side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.294	-0.01	24.55	25.30	1.189	0.349	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.071	0.13	24.45	25.30	1.216	0.086	22.1
Back side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.258	-0.16	24.45	25.30	1.216	0.314	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.200	-0.14	24.55	25.30	1.189	0.238	22.1
Back side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.668	-0.08	24.55	25.30	1.189	0.794	22.1
Left side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.562	-0.11	24.55	25.30	1.189	0.668	22.1
Back side	100	QPSK 1_1	509202/2546.01	50%	1.000	0.624	0.17	24.36	25.30	1.242	0.775	22.1
Back side	100	QPSK 1_1	518598/2592.99	50%	1.000	0.502	0.06	24.38	25.30	1.236	0.620	22.1
Back side	100	QPSK 1_1	523302/2616.51	50%	1.000	0.473	0.02	24.06	25.30	1.330	0.629	22.1
Back side	100	QPSK 1_1	528000/2640	50%	1.000	0.441	0.06	23.82	25.30	1.406	0.620	22.1
Left side	100	QPSK 1_1	509202/2546.01	50%	1.000	0.500	-0.08	24.36	25.30	1.242	0.621	22.1
Left side	100	QPSK 1_1	518598/2592.99	50%	1.000	0.436	-0.12	24.38	25.30	1.236	0.539	22.1
Left side	100	QPSK 1_1	523302/2616.51	50%	1.000	0.362	-0.08	24.06	25.30	1.330	0.482	22.1
Left side	100	QPSK 1_1	528000/2640	50%	1.000	0.368	-0.10	23.82	25.30	1.406	0.517	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.149	-0.16	24.45	25.30	1.216	0.181	22.1
Back side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.457	0.02	24.45	25.30	1.216	0.556	22.1
Left side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.433	-0.03	24.45	25.30	1.216	0.527	22.1
Ant6 Test Record												



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Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_1	513900/2569.5	50%	1.000	0.182	0.08	25.69	25.80	1.026	0.187	22.1
Left tilted	100	QPSK 1_1	513900/2569.5	50%	1.000	0.085	-0.02	25.69	25.80	1.026	0.087	22.1
Right cheek	100	QPSK 1_1	513900/2569.5	50%	1.000	0.048	0.16	25.69	25.80	1.026	0.049	22.1
Right tilted	100	QPSK 1_1	513900/2569.5	50%	1.000	0.001	-0.03	25.69	25.80	1.026	0.001	22.1
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	509202/2546.01	50%	1.000	0.152	-0.07	25.02	25.80	1.197	0.182	22.1
Left tilted	100	QPSK 135_69	509202/2546.01	50%	1.000	0.062	-0.17	25.02	25.80	1.197	0.074	22.1
Right cheek	100	QPSK 135_69	509202/2546.01	50%	1.000	0.001	-0.02	25.02	25.80	1.197	0.001	22.1
Right tilted	100	QPSK 135_69	509202/2546.01	50%	1.000	0.001	0.11	25.02	25.80	1.197	0.001	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.001	0.01	25.69	25.80	1.026	0.001	22.1
Back side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.036	0.00	25.69	25.80	1.026	0.037	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.001	-0.16	25.02	25.80	1.197	0.001	22.1
Back side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.001	-0.06	25.02	25.80	1.197	0.001	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.001	0.11	25.69	25.80	1.026	0.001	22.1
Back side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.060	0.05	25.69	25.80	1.026	0.062	22.1
Right side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.071	-0.05	25.69	25.80	1.026	0.073	22.1
Top side	100	QPSK 1_1	513900/2569.5	50%	1.000	0.001	0.04	25.69	25.80	1.026	0.001	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.032	-0.07	25.02	25.80	1.197	0.038	22.1
Back side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.056	-0.08	25.02	25.80	1.197	0.067	22.1
Right side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.033	0.10	25.02	25.80	1.197	0.039	22.1
Top side	100	QPSK 135_69	509202/2546.01	50%	1.000	0.001	0.05	25.02	25.80	1.197	0.001	22.1

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Bottom side	518598/2592.99	0.986	0.921	1.071	N/A	N/A
Bottom side	509202/2546.01	2.400	2.340	1.026	N/A	N/A
Top side	518598/2592.99	0.873	0.830	1.052	N/A	N/A
Back side	509202/2546.01	2.300	2.250	1.022	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 30: SAR of 5G NR n41 for Head and Body and Product specific 10g.



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8.2.21 SAR Result of 5G NR n48

Ant5 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	40	QPSK 1_104	640000/3600	77%	1.039	0.220	0.18	17.04	17.30	1.062	0.243	22.1
Left tilted	40	QPSK 1_104	640000/3600	77%	1.039	0.123	0.06	17.04	17.30	1.062	0.136	22.1
Right cheek	40	QPSK 1_104	640000/3600	77%	1.039	0.644	0.08	17.04	17.30	1.062	0.711	22.1
Right tilted	40	QPSK 1_104	640000/3600	77%	1.039	0.329	0.02	17.04	17.30	1.062	0.363	22.1
Head Test Data ECI 4 (50%RB)												
Left cheek	40	QPSK 50_28	641666/3624.99	77%	1.039	0.208	0.09	17.04	17.30	1.062	0.230	22.1
Left tilted	40	QPSK 50_28	641666/3624.99	77%	1.039	0.130	0.03	17.04	17.30	1.062	0.143	22.1
Right cheek	40	QPSK 50_28	641666/3624.99	77%	1.039	0.768	0.08	17.04	17.30	1.062	0.847	22.1
Right tilted	40	QPSK 50_28	641666/3624.99	77%	1.039	0.324	0.01	17.04	17.30	1.062	0.357	22.1
Right cheek	40	QPSK 50_28	640000/3600	77%	1.039	0.647	0.04	16.88	17.30	1.102	0.741	22.1
Right cheek	40	QPSK 50_28	643332/3649.98	77%	1.039	0.624	0.07	17.01	17.30	1.069	0.693	22.1
Head Test Data ECI 4 (100%RB)												
Right cheek	40	QPSK 100_0	641666/3624.99	77%	1.039	0.486	0.00	16.05	16.30	1.059	0.535	22.1
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	40	QPSK 1_53	640000/3600	77%	1.039	0.240	0.03	21.50	21.80	1.072	0.267	22.1
Back side	40	QPSK 1_53	640000/3600	77%	1.039	0.271	0.03	21.50	21.80	1.072	0.301	22.1
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	40	QPSK 50_28	641666/3624.99	77%	1.039	0.249	0.09	21.56	21.80	1.057	0.273	22.1
Back side	40	QPSK 50_28	641666/3624.99	77%	1.039	0.274	0.06	21.56	21.80	1.057	0.301	22.1
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	40	QPSK 1_53	640000/3600	77%	1.039	0.445	0.02	21.50	21.80	1.072	0.496	22.1
Back side	40	QPSK 1_53	640000/3600	77%	1.039	0.527	0.07	21.50	21.80	1.072	0.587	22.1
Left side	40	QPSK 1_53	640000/3600	77%	1.039	0.771	0.09	21.50	21.80	1.072	0.858	22.1
Top side	40	QPSK 1_53	640000/3600	77%	1.039	0.130	-0.09	21.50	21.80	1.072	0.144	22.1
Left side	40	QPSK 1_53	641666/3624.99	77%	1.039	0.780	-0.01	21.44	21.80	1.086	0.880	22.1
Left side	40	QPSK 1_53	643332/3649.98	77%	1.039	0.772	-0.01	21.48	21.80	1.076	0.863	22.1
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	40	QPSK 50_28	641666/3624.99	77%	1.039	0.463	0.01	21.56	21.80	1.057	0.508	22.1
Back side	40	QPSK 50_28	641666/3624.99	77%	1.039	0.540	0.14	21.56	21.80	1.057	0.593	22.1
Left side	40	QPSK 50_28	641666/3624.99	77%	1.039	0.793	0.03	21.56	21.80	1.057	0.871	22.1
Top side	40	QPSK 50_28	641666/3624.99	77%	1.039	0.125	0.08	21.56	21.80	1.057	0.137	22.1
Left side	40	QPSK 50_28	640000/3600	77%	1.039	0.791	0.04	21.53	21.80	1.064	0.875	22.1
Left side	40	QPSK 50_28	643332/3649.98	77%	1.039	0.824	-0.04	21.52	21.80	1.067	0.913	22.1
Left side-Repeated	40	QPSK 50_28	643332/3649.98	77%	1.039	0.803	-0.11	21.52	21.80	1.067	0.889	22.1
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												
Left side	40	QPSK 100_0	641666/3624.99	77%	1.039	0.610	0.06	20.45	20.80	1.084	0.687	22.1



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left side	643332/3649.98	0.824	0.803	1.026	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

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



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8.2.22 SAR Result of 5G NR n66

Ant2 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	40	QPSK 1_1	346000/1730	100%	0.237	-0.02	23.10	24.30	1.318	0.312	21.7
Left tilted	40	QPSK 1_1	346000/1730	100%	0.197	0.08	23.10	24.30	1.318	0.260	21.7
Right cheek	40	QPSK 1_1	346000/1730	100%	0.179	0.03	23.10	24.30	1.318	0.236	21.7
Right tilted	40	QPSK 1_1	346000/1730	100%	0.207	-0.01	23.10	24.30	1.318	0.273	21.7
Head Test Data ECI 4 (50%RB)											
Left cheek	40	QPSK 50_28	346000/1730	100%	0.245	0.02	23.21	24.30	1.285	0.315	21.7
Left tilted	40	QPSK 50_28	346000/1730	100%	0.195	-0.09	23.21	24.30	1.285	0.251	21.7
Right cheek	40	QPSK 50_28	346000/1730	100%	0.196	0.15	23.21	24.30	1.285	0.252	21.7
Right tilted	40	QPSK 50_28	346000/1730	100%	0.209	-0.01	23.21	24.30	1.285	0.269	21.7
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	40	QPSK 1_1	346000/1730	100%	0.306	0.09	23.10	24.30	1.318	0.403	21.7
Back side	40	QPSK 1_1	346000/1730	100%	0.311	0.11	23.10	24.30	1.318	0.410	21.7
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	346000/1730	100%	0.294	0.03	23.21	24.30	1.285	0.378	21.7
Back side	40	QPSK 50_28	346000/1730	100%	0.306	0.00	23.21	24.30	1.285	0.393	21.7
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	40	QPSK 1_1	346000/1730	100%	0.425	-0.03	23.10	24.30	1.318	0.560	21.7
Back side	40	QPSK 1_1	346000/1730	100%	0.559	0.06	23.10	24.30	1.318	0.737	21.7
Left side	40	QPSK 1_1	346000/1730	100%	0.481	0.11	23.10	24.30	1.318	0.634	21.7
Bottom side	40	QPSK 1_1	346000/1730	100%	0.326	0.09	23.10	24.30	1.318	0.430	21.7
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	346000/1730	100%	0.507	0.04	23.21	24.30	1.285	0.652	21.7
Back side	40	QPSK 50_28	346000/1730	100%	0.592	-0.09	23.21	24.30	1.285	0.761	21.7
Left side	40	QPSK 50_28	346000/1730	100%	0.580	-0.01	23.21	24.30	1.285	0.745	21.7
Bottom side	40	QPSK 50_28	346000/1730	100%	0.296	-0.02	23.21	24.30	1.285	0.380	21.7
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	40	QPSK 1_53	346000/1730	100%	0.503	-0.01	19.05	19.80	1.189	0.598	21.7
Left tilted	40	QPSK 1_53	346000/1730	100%	0.611	-0.02	19.05	19.80	1.189	0.726	21.7
Right cheek	40	QPSK 1_53	346000/1730	100%	0.784	-0.02	19.05	19.80	1.189	0.932	21.7
Right tilted	40	QPSK 1_53	346000/1730	100%	0.945	0.02	19.05	19.80	1.189	1.123	21.7
Right tilted-Repeated	40	QPSK 1_53	346000/1730	100%	0.810	0.09	19.05	19.80	1.189	0.963	21.7
Right cheek	40	QPSK 1_53	349000/1745	100%	0.739	-0.02	18.79	19.80	1.262	0.932	21.7
Right cheek	40	QPSK 1_104	352000/1760	100%	0.761	-0.01	18.79	19.80	1.262	0.960	21.7
Right tilted	40	QPSK 1_53	349000/1745	100%	0.892	-0.06	18.79	19.80	1.262	1.126	21.7
Right tilted	40	QPSK 1_104	352000/1760	100%	0.942	-0.01	18.79	19.80	1.262	1.189	21.7
Head Test Data ECI 4 (50%RB)											
Left cheek	40	QPSK 50_28	346000/1730	100%	0.569	-0.09	19.06	19.80	1.186	0.675	21.7
Left tilted	40	QPSK 50_28	346000/1730	100%	0.604	-0.03	19.06	19.80	1.186	0.716	21.7
Right cheek	40	QPSK 50_28	346000/1730	100%	0.801	-0.04	19.06	19.80	1.186	0.950	21.7
Right tilted	40	QPSK 50_28	346000/1730	100%	0.896	-0.02	19.06	19.80	1.186	1.062	21.7
Right cheek	40	QPSK 50_28	349000/1745	100%	0.762	-0.10	18.88	19.80	1.236	0.942	21.7



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Right cheek	40	QPSK 50_28	352000/1760	100%	0.772	0.00	18.86	19.80	1.242	0.959	21.7
Right tilted	40	QPSK 50_28	349000/1745	100%	0.916	-0.04	18.88	19.80	1.236	1.132	21.7
Right tilted	40	QPSK 50_28	352000/1760	100%	0.816	0.00	18.86	19.80	1.242	1.013	21.7
Head Test data ECI 4 (100%RB)											
Right cheek	40	QPSK 100_0	352000/1760	100%	0.590	-0.02	18.16	18.80	1.159	0.684	21.7
Right tilted	40	QPSK 100_0	352000/1760	100%	0.710	0.01	18.16	18.80	1.159	0.823	21.7
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	40	QPSK 1_1	346000/1730	100%	0.221	0.03	22.55	23.30	1.189	0.263	21.7
Back side	40	QPSK 1_1	346000/1730	100%	0.231	-0.17	22.55	23.30	1.189	0.275	21.7
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	40	QPSK 50_28	346000/1730	100%	0.201	0.02	22.51	23.30	1.199	0.241	21.7
Back side	40	QPSK 50_28	346000/1730	100%	0.244	-0.01	22.51	23.30	1.199	0.293	21.7
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	40	QPSK 1_1	346000/1730	100%	0.426	0.10	22.55	23.30	1.189	0.506	21.7
Back side	40	QPSK 1_1	346000/1730	100%	0.457	-0.13	22.55	23.30	1.189	0.543	21.7
Left side	40	QPSK 1_1	346000/1730	100%	0.127	0.11	22.55	23.30	1.189	0.151	21.7
Right side	40	QPSK 1_1	346000/1730	100%	0.109	0.18	22.55	23.30	1.189	0.130	21.7
Top side	40	QPSK 1_1	346000/1730	100%	0.439	0.17	22.55	23.30	1.189	0.522	21.7
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	40	QPSK 50_28	346000/1730	100%	0.347	-0.10	22.51	23.30	1.199	0.416	21.7
Back side	40	QPSK 50_28	346000/1730	100%	0.507	0.11	22.51	23.30	1.199	0.608	21.7
Left side	40	QPSK 50_28	346000/1730	100%	0.135	0.05	22.51	23.30	1.199	0.162	21.7
Right side	40	QPSK 50_28	346000/1730	100%	0.093	0.05	22.51	23.30	1.199	0.112	21.7
Top side	40	QPSK 50_28	346000/1730	100%	0.424	-0.07	22.51	23.30	1.199	0.509	21.7

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	346000/1730	0.945	0.810	1.1666667	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

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



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8.2.23 SAR Result of 5G NR n70

Ant2 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	15	QPSK 1_19	340500/1702.5	100%	0.235	0.08	23.08	24.30	1.324	0.311	22.2
Left tilted	15	QPSK 1_19	340500/1702.5	100%	0.184	-0.07	23.08	24.30	1.324	0.244	22.2
Right cheek	15	QPSK 1_19	340500/1702.5	100%	0.186	-0.18	23.08	24.30	1.324	0.246	22.2
Right tilted	15	QPSK 1_19	340500/1702.5	100%	0.208	0.13	23.08	24.30	1.324	0.275	22.2
Head Test Data ECI 4 (50%RB)											
Left cheek	15	QPSK 18_10	340500/1702.5	100%	0.241	0.19	23.21	24.30	1.285	0.310	22.2
Left tilted	15	QPSK 18_10	340500/1702.5	100%	0.174	-0.06	23.21	24.30	1.285	0.224	22.2
Right cheek	15	QPSK 18_10	340500/1702.5	100%	0.166	0.19	23.21	24.30	1.285	0.213	22.2
Right tilted	15	QPSK 18_10	340500/1702.5	100%	0.182	-0.12	23.21	24.30	1.285	0.234	22.2
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	15	QPSK 1_19	340500/1702.5	100%	0.301	0.17	23.08	24.30	1.324	0.399	22.2
Back side	15	QPSK 1_19	340500/1702.5	100%	0.317	-0.07	23.08	24.30	1.324	0.420	22.2
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	15	QPSK 18_10	340500/1702.5	100%	0.261	-0.04	23.21	24.30	1.285	0.335	22.2
Back side	15	QPSK 18_10	340500/1702.5	100%	0.267	0.06	23.21	24.30	1.285	0.343	22.2
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	15	QPSK 1_19	340500/1702.5	100%	0.486	-0.02	23.08	24.30	1.324	0.644	22.2
Back side	15	QPSK 1_19	340500/1702.5	100%	0.516	-0.08	23.08	24.30	1.324	0.683	22.2
Left side	15	QPSK 1_19	340500/1702.5	100%	0.514	0.01	23.08	24.30	1.324	0.681	22.2
Bottom side	15	QPSK 1_19	340500/1702.5	100%	0.344	0.03	23.08	24.30	1.324	0.456	22.2
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	15	QPSK 18_10	340500/1702.5	100%	0.473	-0.07	23.21	24.30	1.285	0.608	22.2
Back side	15	QPSK 18_10	340500/1702.5	100%	0.485	-0.02	23.21	24.30	1.285	0.623	22.2
Left side	15	QPSK 18_10	340500/1702.5	100%	0.457	-0.04	23.21	24.30	1.285	0.587	22.2
Bottom side	15	QPSK 18_10	340500/1702.5	100%	0.308	0.02	23.21	24.30	1.285	0.396	22.2
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	15	QPSK 1_1	340500/1702.5	100%	0.728	-0.01	20.04	20.80	1.191	0.867	22.2
Left tilted	15	QPSK 1_1	340500/1702.5	100%	0.731	-0.03	20.04	20.80	1.191	0.871	22.2
Right cheek	15	QPSK 1_1	340500/1702.5	100%	0.841	0.17	20.04	20.80	1.191	1.002	22.2
Right tilted	15	QPSK 1_1	340500/1702.5	100%	0.951	0.13	20.04	20.80	1.191	1.133	22.2
Head Test Data ECI 4 (50%RB)											
Left cheek	15	QPSK 18_10	340500/1702.5	100%	0.744	-0.03	20.00	20.80	1.202	0.894	22.2
Left tilted	15	QPSK 18_10	340500/1702.5	100%	0.753	-0.04	20.00	20.80	1.202	0.905	22.2
Right cheek	15	QPSK 18_10	340500/1702.5	100%	0.877	0.07	20.00	20.80	1.202	1.054	22.2
Right tilted	15	QPSK 18_10	340500/1702.5	100%	0.996	0.03	20.00	20.80	1.202	1.197	22.2
Right tilted-Repeated	15	QPSK 18_10	340500/1702.5	100%	0.963	0.04	20.00	20.80	1.202	1.158	22.2
Head Test Data ECI 4 (100%RB)											
Left cheek	15	QPSK 36_0	340500/1702.5	100%	0.651	0.02	19.12	19.80	1.169	0.761	22.2
Left tilted	15	QPSK 36_0	340500/1702.5	100%	0.744	0.09	19.12	19.80	1.169	0.870	22.2
Right cheek	15	QPSK 36_0	340500/1702.5	100%	0.718	0.05	19.12	19.80	1.169	0.840	22.2
Right tilted	15	QPSK 36_0	340500/1702.5	100%	0.785	0.06	19.12	19.80	1.169	0.918	22.2



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Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	15	QPSK 1_19	340500/1702.5	100%	0.200	-0.06	22.66	23.30	1.159	0.232	22.2
Back side	15	QPSK 1_19	340500/1702.5	100%	0.272	0.03	22.66	23.30	1.159	0.315	22.2
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	15	QPSK 18_10	340500/1702.5	100%	0.201	-0.06	22.63	23.30	1.167	0.235	22.2
Back side	15	QPSK 18_10	340500/1702.5	100%	0.258	0.02	22.63	23.30	1.167	0.301	22.2
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	15	QPSK 1_19	340500/1702.5	100%	0.386	0.03	22.66	23.30	1.159	0.447	22.2
Back side	15	QPSK 1_19	340500/1702.5	100%	0.526	0.11	22.66	23.30	1.159	0.610	22.2
Left side	15	QPSK 1_19	340500/1702.5	100%	0.182	0.17	22.66	23.30	1.159	0.211	22.2
Right side	15	QPSK 1_19	340500/1702.5	100%	0.089	-0.19	22.66	23.30	1.159	0.104	22.2
Top side	15	QPSK 1_19	340500/1702.5	100%	0.481	-0.02	22.66	23.30	1.159	0.557	22.2
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	15	QPSK 18_10	340500/1702.5	100%	0.381	0.02	22.63	23.30	1.167	0.445	22.2
Back side	15	QPSK 18_10	340500/1702.5	100%	0.480	0.05	22.63	23.30	1.167	0.560	22.2
Left side	15	QPSK 18_10	340500/1702.5	100%	0.165	0.17	22.63	23.30	1.167	0.193	22.2
Right side	15	QPSK 18_10	340500/1702.5	100%	0.083	0.01	22.63	23.30	1.167	0.096	22.2
Top side	15	QPSK 18_10	340500/1702.5	100%	0.439	-0.04	22.63	23.30	1.167	0.512	22.2

Test Position	Channel/ Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	340500/1702.5	0.996	0.963	1.034	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 33: SAR of 5G NR n70 for Head and Body.



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8.2.24 SAR Result of 5G NR n71

Ant1 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)											
Left cheek	20	QPSK 1_1	136100/680.5	100%	0.194	0.01	24.14	24.80	1.164	0.226	22.2
Left tilted	20	QPSK 1_1	136100/680.5	100%	0.091	-0.05	24.14	24.80	1.164	0.106	22.2
Right cheek	20	QPSK 1_1	136100/680.5	100%	0.237	0.07	24.14	24.80	1.164	0.276	22.2
Right tilted	20	QPSK 1_1	136100/680.5	100%	0.093	0.08	24.14	24.80	1.164	0.108	22.2
Head Test Data ECI 4 (50%RB)											
Left cheek	20	QPSK 25_13	134600/673	100%	0.193	0.01	24.23	24.80	1.140	0.220	22.2
Left tilted	20	QPSK 25_13	134600/673	100%	0.088	0.02	24.23	24.80	1.140	0.101	22.2
Right cheek	20	QPSK 25_13	134600/673	100%	0.256	0.08	24.23	24.80	1.140	0.292	22.2
Right tilted	20	QPSK 25_13	134600/673	100%	0.103	0.09	24.23	24.80	1.140	0.117	22.2
Body worn Test data ECI 1 (Separate 15mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	100%	0.256	0.04	24.14	24.80	1.164	0.298	22.2
Back side	20	QPSK 1_1	136100/680.5	100%	0.296	0.02	24.14	24.80	1.164	0.345	22.2
Body worn Test data ECI 1 (Separate 15mm 50%RB)											
Front side	20	QPSK 25_13	134600/673	100%	0.265	0.05	24.23	24.80	1.140	0.302	22.2
Back side	20	QPSK 25_13	134600/673	100%	0.328	0.04	24.23	24.80	1.140	0.374	22.2
Hotspot Test data ECI 3 (Separate 10mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	100%	0.254	0.05	24.14	24.80	1.164	0.296	22.2
Back side	20	QPSK 1_1	136100/680.5	100%	0.262	-0.06	24.14	24.80	1.164	0.305	22.2
Left side	20	QPSK 1_1	136100/680.5	100%	0.247	0.07	24.14	24.80	1.164	0.288	22.2
Right side	20	QPSK 1_1	136100/680.5	100%	0.442	-0.04	24.14	24.80	1.164	0.515	22.2
Bottom side	20	QPSK 1_1	136100/680.5	100%	0.182	0.08	24.14	24.80	1.164	0.212	22.2
Hotspot Test data ECI 3 (Separate 10mm 50%RB)											
Front side	20	QPSK 25_13	134600/673	100%	0.271	0.11	24.23	24.80	1.140	0.309	22.2
Back side	20	QPSK 25_13	134600/673	100%	0.292	0.07	24.23	24.80	1.140	0.333	22.2
Left side	20	QPSK 25_13	134600/673	100%	0.274	0.04	24.23	24.80	1.140	0.312	22.2
Right side	20	QPSK 25_13	134600/673	100%	0.470	0.04	24.23	24.80	1.140	0.536	22.2
Bottom side	20	QPSK 25_13	134600/673	100%	0.201	0.07	24.23	24.80	1.140	0.229	22.2

Table 34: SAR of 5G NR n71 for Head and Body.



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8.2.25 SAR Result of 5G NR n77

SA N77 (3450-3550) SAR Test Record												
Ant2 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_271	633334/3500	50%	1.000	0.082	0.00	23.17	23.80	1.156	0.095	22.3
Left tilted	100	QPSK 1_271	633334/3500	50%	1.000	0.063	0.05	23.17	23.80	1.156	0.073	22.3
Right cheek	100	QPSK 1_271	633334/3500	50%	1.000	0.035	0.02	23.17	23.80	1.156	0.040	22.3
Right tilted	100	QPSK 1_271	633334/3500	50%	1.000	0.033	0.06	23.17	23.80	1.156	0.038	22.3
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	633334/3500	50%	1.000	0.078	-0.15	23.17	23.80	1.156	0.090	22.3
Left tilted	100	QPSK 135_69	633334/3500	50%	1.000	0.040	0.03	23.17	23.80	1.156	0.046	22.3
Right cheek	100	QPSK 135_69	633334/3500	50%	1.000	0.053	0.07	23.17	23.80	1.156	0.061	22.3
Right tilted	100	QPSK 135_69	633334/3500	50%	1.000	0.056	-0.11	23.17	23.80	1.156	0.065	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_271	633334/3500	50%	1.000	0.146	0.09	23.17	23.80	1.156	0.169	22.3
Back side	100	QPSK 1_271	633334/3500	50%	1.000	0.214	0.09	23.17	23.80	1.156	0.247	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	633334/3500	50%	1.000	0.140	-0.06	23.17	23.80	1.156	0.162	22.3
Back side	100	QPSK 135_69	633334/3500	50%	1.000	0.198	0.12	23.17	23.80	1.156	0.229	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_271	633334/3500	50%	1.000	0.307	0.08	23.17	23.80	1.156	0.355	22.3
Back side	100	QPSK 1_271	633334/3500	50%	1.000	0.350	0.17	23.17	23.80	1.156	0.405	22.3
Left side	100	QPSK 1_271	633334/3500	50%	1.000	0.342	0.16	23.17	23.80	1.156	0.395	22.3
Bottom side	100	QPSK 1_271	633334/3500	50%	1.000	0.326	0.05	23.17	23.80	1.156	0.377	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	633334/3500	50%	1.000	0.263	-0.06	23.17	23.80	1.156	0.304	22.3
Back side	100	QPSK 135_69	633334/3500	50%	1.000	0.345	0.16	23.17	23.80	1.156	0.399	22.3
Left side	100	QPSK 135_69	633334/3500	50%	1.000	0.340	-0.08	23.17	23.80	1.156	0.393	22.3
Bottom side	100	QPSK 135_69	633334/3500	50%	1.000	0.339	0.00	23.17	23.80	1.156	0.392	22.3
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_137	633334/3500	50%	1.000	0.055	-0.13	24.07	25.30	1.327	0.073	22.3
Left tilted	100	QPSK 1_137	633334/3500	50%	1.000	0.045	0.03	24.07	25.30	1.327	0.060	22.3
Right cheek	100	QPSK 1_137	633334/3500	50%	1.000	0.089	0.00	24.07	25.30	1.327	0.118	22.3
Right tilted	100	QPSK 1_137	633334/3500	50%	1.000	0.001	-0.10	24.07	25.30	1.327	0.001	22.3
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	633334/3500	50%	1.000	0.001	0.11	24.11	25.30	1.315	0.001	22.3
Left tilted	100	QPSK 135_69	633334/3500	50%	1.000	0.036	0.09	24.11	25.30	1.315	0.047	22.3
Right cheek	100	QPSK 135_69	633334/3500	50%	1.000	0.040	0.06	24.11	25.30	1.315	0.053	22.3
Right tilted	100	QPSK 135_69	633334/3500	50%	1.000	0.001	-0.06	24.11	25.30	1.315	0.001	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)												



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Front side	100	QPSK 1_137	633334/3500	50%	1.000	0.033	-0.02	24.07	25.30	1.327	0.044	22.3
Back side	100	QPSK 1_137	633334/3500	50%	1.000	0.038	-0.11	24.07	25.30	1.327	0.050	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	633334/3500	50%	1.000	0.034	-0.03	24.11	25.30	1.315	0.045	22.3
Back side	100	QPSK 135_69	633334/3500	50%	1.000	0.039	0.00	24.11	25.30	1.315	0.051	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_137	633334/3500	50%	1.000	0.036	-0.06	24.07	25.30	1.327	0.048	22.3
Back side	100	QPSK 1_137	633334/3500	50%	1.000	0.107	0.02	24.07	25.30	1.327	0.142	22.3
Left side	100	QPSK 1_137	633334/3500	50%	1.000	0.101	-0.07	24.07	25.30	1.327	0.134	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	633334/3500	50%	1.000	0.046	0.13	24.11	25.30	1.315	0.061	22.3
Back side	100	QPSK 135_69	633334/3500	50%	1.000	0.111	0.00	24.11	25.30	1.315	0.146	22.3
Left side	100	QPSK 135_69	633334/3500	50%	1.000	0.098	0.07	24.11	25.30	1.315	0.129	22.3
Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scale factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_271	633334/3500	77%	1.039	0.193	0.17	15.09	16.50	1.384	0.277	22.3
Left tilted	100	QPSK 1_271	633334/3500	77%	1.039	0.141	0.14	15.09	16.50	1.384	0.203	22.3
Right cheek	100	QPSK 1_271	633334/3500	77%	1.039	0.656	-0.11	15.09	16.50	1.384	0.943	22.3
Right tilted	100	QPSK 1_271	633334/3500	77%	1.039	0.373	-0.08	15.09	16.50	1.384	0.536	22.3
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	633334/3500	77%	1.039	0.175	0.09	15.07	16.50	1.390	0.252	22.3
Left tilted	100	QPSK 135_69	633334/3500	77%	1.039	0.133	-0.06	15.07	16.50	1.390	0.192	22.3
Right cheek	100	QPSK 135_69	633334/3500	77%	1.039	0.763	0.05	15.07	16.50	1.390	1.102	22.3
Right tilted	100	QPSK 135_69	633334/3500	77%	1.039	0.354	-0.05	15.07	16.50	1.390	0.511	22.3
Head Test Data ECI 4 (100%RB)												
Right cheek	100	QPSK 270_0	633334/3500	77%	1.039	0.672	-0.01	14.11	15.50	1.377	0.961	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_271	633334/3500	77%	1.039	0.316	-0.02	21.70	23.00	1.349	0.443	22.3
Back side	100	QPSK 1_271	633334/3500	77%	1.039	0.356	-0.06	21.70	23.00	1.349	0.499	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	633334/3500	77%	1.039	0.342	-0.15	21.84	23.00	1.306	0.464	22.3
Back side	100	QPSK 135_69	633334/3500	77%	1.039	0.370	-0.17	21.84	23.00	1.306	0.502	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_137	633334/3500	77%	1.039	0.467	0.16	20.66	22.00	1.361	0.661	22.3
Back side	100	QPSK 1_137	633334/3500	77%	1.039	0.618	-0.05	20.66	22.00	1.361	0.874	22.3
Left side	100	QPSK 1_137	633334/3500	77%	1.039	0.850	0.02	20.66	22.00	1.361	1.202	22.3
Top side	100	QPSK 1_137	633334/3500	77%	1.039	0.180	-0.02	20.66	22.00	1.361	0.255	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	633334/3500	77%	1.039	0.500	0.07	20.78	22.00	1.324	0.688	22.3
Back side	100	QPSK 135_69	633334/3500	77%	1.039	0.633	-0.13	20.78	22.00	1.324	0.871	22.3
Left side	100	QPSK 135_69	633334/3500	77%	1.039	0.878	0.15	20.78	22.00	1.324	1.208	22.3
Left side-Repeated	100	QPSK 135_69	633334/3500	77%	1.039	0.860	0.05	20.78	22.00	1.324	1.183	22.3
Top side	100	QPSK 135_69	633334/3500	77%	1.039	0.187	-0.06	20.78	22.00	1.324	0.258	22.3
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												
Back side	100	QPSK 270_0	633334/3500	77%	1.039	0.467	-0.02	19.59	21.00	1.384	0.671	22.3
Left side	100	QPSK 270_0	633334/3500	77%	1.039	0.696	0.07	19.59	21.00	1.384	1.001	22.3



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Test position	BW.	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)	Scale d factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data ECI 1 (Separate 0mm 1RB)												
Left side	100	QPSK 1_271	633334/3500	77%	1.039	2.220	0.08	21.70	23.00	1.349	3.112	22.3
Left side-Repeated	100	QPSK 1_271	633334/3500	77%	1.039	2.140	0.07	21.70	23.00	1.349	3.000	22.3
Product specific 10g SAR Test data ECI 1 (Separate 0mm 50%RB)												
Left side	100	QPSK 135_69	633334/3500	77%	1.039	2.030	0.02	21.84	23.00	1.306	2.755	22.3
Product specific 10g SAR Test data ECI 1 (Separate 0mm 100%RB)												
Left side	100	QPSK 270_0	633334/3500	77%	1.039	1.990	0.15	20.64	22.00	1.368	2.828	22.3
Ant 6 Test Record												
Test position	BW.	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)	Scale d factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_137	633334/3500	77%	1.039	0.802	0.06	21.51	22.30	1.199	1.000	22.3
Left tilted	100	QPSK 1_137	633334/3500	77%	1.039	0.547	0.11	21.51	22.30	1.199	0.682	22.3
Right cheek	100	QPSK 1_137	633334/3500	77%	1.039	0.337	-0.02	21.51	22.30	1.199	0.420	22.3
Right tilted	100	QPSK 1_137	633334/3500	77%	1.039	0.362	0.09	21.51	22.30	1.199	0.451	22.3
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	633334/3500	77%	1.039	0.887	0.03	21.52	22.30	1.197	1.103	22.3
Left cheek-Repeated	100	QPSK 135_69	633334/3500	77%	1.039	0.856	0.03	21.52	22.30	1.197	1.064	22.3
Left tilted	100	QPSK 135_69	633334/3500	77%	1.039	0.561	0.10	21.52	22.30	1.197	0.697	22.3
Right cheek	100	QPSK 135_69	633334/3500	77%	1.039	0.353	-0.16	21.52	22.30	1.197	0.438	22.3
Right tilted	100	QPSK 135_69	633334/3500	77%	1.039	0.371	-0.08	21.52	22.30	1.197	0.461	22.3
Head Test Data ECI 4 (100%RB)												
Left cheek	100	QPSK 270_0	633334/3500	77%	1.039	0.673	0.09	20.56	21.30	1.186	0.829	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_137	633334/3500	50%	1.000	0.172	-0.18	24.50	25.30	1.202	0.207	22.3
Back side	100	QPSK 1_137	633334/3500	50%	1.000	0.286	0.12	24.50	25.30	1.202	0.344	22.3
Front side	100	QPSK 135_69	633334/3500	50%	1.000	0.178	0.14	24.66	25.30	1.159	0.206	22.3
Back side	100	QPSK 135_69	633334/3500	50%	1.000	0.295	0.18	24.66	25.30	1.159	0.342	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_137	633334/3500	50%	1.000	0.334	-0.07	24.50	25.30	1.202	0.402	22.3
Back side	100	QPSK 1_137	633334/3500	50%	1.000	0.464	0.09	24.50	25.30	1.202	0.558	22.3
Right side	100	QPSK 1_137	633334/3500	50%	1.000	0.482	0.03	24.50	25.30	1.202	0.579	22.3
Top side	100	QPSK 1_137	633334/3500	50%	1.000	0.448	0.03	24.50	25.30	1.202	0.539	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	633334/3500	50%	1.000	0.367	0.13	24.66	25.30	1.159	0.425	22.3
Back side	100	QPSK 135_69	633334/3500	50%	1.000	0.440	0.06	24.66	25.30	1.159	0.510	22.3
Right side	100	QPSK 135_69	633334/3500	50%	1.000	0.456	-0.09	24.66	25.30	1.159	0.528	22.3
Top side	100	QPSK 135_69	633334/3500	50%	1.000	0.414	0.08	24.66	25.30	1.159	0.480	22.3



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SA N77 (3700-3980) SAR Test Record												
Ant2 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_271	657200/3858	50%	1.000	0.026	-0.13	23.17	23.80	1.156	0.030	22.3
Left tilted	100	QPSK 1_271	657200/3858	50%	1.000	0.018	0.02	23.17	23.80	1.156	0.021	22.3
Right cheek	100	QPSK 1_271	657200/3858	50%	1.000	0.001	0.14	23.17	23.80	1.156	0.001	22.3
Right tilted	100	QPSK 1_271	657200/3858	50%	1.000	0.001	0.00	23.17	23.80	1.156	0.001	22.3
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	662000/3930	50%	1.000	0.033	0.10	23.16	23.80	1.159	0.038	22.3
Left tilted	100	QPSK 135_69	662000/3930	50%	1.000	0.021	0.01	23.16	23.80	1.159	0.024	22.3
Right cheek	100	QPSK 135_69	662000/3930	50%	1.000	0.001	0.14	23.16	23.80	1.159	0.001	22.3
Right tilted	100	QPSK 135_69	662000/3930	50%	1.000	0.001	0.08	23.16	23.80	1.159	0.001	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_271	657200/3858	50%	1.000	0.112	0.04	23.17	23.80	1.156	0.129	22.3
Back side	100	QPSK 1_271	657200/3858	50%	1.000	0.153	0.15	23.17	23.80	1.156	0.177	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	662000/3930	50%	1.000	0.122	-0.17	23.16	23.80	1.159	0.141	22.3
Back side	100	QPSK 135_69	662000/3930	50%	1.000	0.200	0.05	23.16	23.80	1.159	0.232	21.5
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_271	657200/3858	50%	1.000	0.188	-0.15	23.17	23.80	1.156	0.217	22.3
Back side	100	QPSK 1_271	657200/3858	50%	1.000	0.209	0.08	23.17	23.80	1.156	0.242	22.3
Left side	100	QPSK 1_271	657200/3858	50%	1.000	0.162	0.16	23.17	23.80	1.156	0.187	22.3
Bottom side	100	QPSK 1_271	657200/3858	50%	1.000	0.276	-0.17	23.17	23.80	1.156	0.319	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	662000/3930	50%	1.000	0.212	-0.13	23.16	23.80	1.159	0.246	22.3
Back side	100	QPSK 135_69	662000/3930	50%	1.000	0.275	0.01	23.16	23.80	1.159	0.319	22.3
Left side	100	QPSK 135_69	662000/3930	50%	1.000	0.198	-0.01	23.16	23.80	1.159	0.229	22.3
Bottom side	100	QPSK 135_69	662000/3930	50%	1.000	0.362	-0.04	23.16	23.80	1.159	0.419	22.3
Bottom side	100	QPSK 135_69	650000/3750	50%	1.000	0.336	0.09	23.04	23.80	1.191	0.400	22.3
Bottom side	100	QPSK 135_69	652400/3786	50%	1.000	0.343	-0.11	23.05	23.80	1.189	0.408	22.3
Bottom side	100	QPSK 135_69	654800/3822	50%	1.000	0.301	0.12	23.02	23.80	1.197	0.360	22.3
Bottom side	100	QPSK 135_69	657200/3858	50%	1.000	0.313	0.04	23.13	23.80	1.167	0.365	22.3
Bottom side	100	QPSK 135_69	659600/3894	50%	1.000	0.406	0.19	23.15	23.80	1.161	0.472	22.3
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_137	659600/3894	50%	1.000	0.044	0.02	24.60	25.30	1.175	0.052	22.3
Left tilted	100	QPSK 1_137	659600/3894	50%	1.000	0.049	0.03	24.60	25.30	1.175	0.058	22.3
Right cheek	100	QPSK 1_137	659600/3894	50%	1.000	0.104	0.09	24.60	25.30	1.175	0.122	22.3
Right tilted	100	QPSK 1_137	659600/3894	50%	1.000	0.000	-0.11	24.60	25.30	1.175	0.000	22.3
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	659600/3894	50%	1.000	0.057	-0.12	24.85	25.30	1.109	0.063	22.3
Left tilted	100	QPSK 135_69	659600/3894	50%	1.000	0.068	-0.15	24.85	25.30	1.109	0.075	22.3
Right cheek	100	QPSK 135_69	659600/3894	50%	1.000	0.082	-0.17	24.85	25.30	1.109	0.091	22.3
Right tilted	100	QPSK 135_69	659600/3894	50%	1.000	0.031	0.01	24.85	25.30	1.109	0.034	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)												



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Front side	100	QPSK 1_137	659600/3894	50%	1.000	0.053	0.17	24.60	25.30	1.175	0.062	22.3
Back side	100	QPSK 1_137	659600/3894	50%	1.000	0.187	0.00	24.60	25.30	1.175	0.220	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	659600/3894	50%	1.000	0.036	0.08	24.85	25.30	1.109	0.040	22.3
Back side	100	QPSK 135_69	659600/3894	50%	1.000	0.197	0.16	24.85	25.30	1.109	0.219	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_137	659600/3894	50%	1.000	0.060	-0.17	24.60	25.30	1.175	0.070	22.3
Back side	100	QPSK 1_137	659600/3894	50%	1.000	0.411	0.00	24.60	25.30	1.175	0.483	22.3
Left side	100	QPSK 1_137	659600/3894	50%	1.000	0.302	-0.15	24.60	25.30	1.175	0.355	22.3
Back side	100	QPSK 1_271	650000/3750	50%	1.000	0.345	-0.06	24.13	25.30	1.309	0.452	22.3
Back side	100	QPSK 1_271	652400/3786	50%	1.000	0.339	-0.02	24.30	25.30	1.259	0.427	22.3
Back side	100	QPSK 1_271	654800/3822	50%	1.000	0.354	0.12	24.45	25.30	1.216	0.431	22.3
Back side	100	QPSK 1_137	657200/3858	50%	1.000	0.299	0.00	24.59	25.30	1.178	0.352	22.3
Back side	100	QPSK 1_137	662000/3930	50%	1.000	0.370	-0.04	24.56	25.30	1.186	0.439	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	659600/3894	50%	1.000	0.045	0.16	24.85	25.30	1.109	0.050	22.3
Back side	100	QPSK 135_69	659600/3894	50%	1.000	0.304	0.17	24.85	25.30	1.109	0.337	22.3
Left side	100	QPSK 135_69	659600/3894	50%	1.000	0.307	-0.01	24.85	25.30	1.109	0.341	22.3
Ant 5 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_137	659600/3894	77%	1.039	0.193	0.05	18.09	18.50	1.099	0.220	22.3
Left tilted	100	QPSK 1_137	659600/3894	77%	1.039	0.141	0.11	18.09	18.50	1.099	0.161	22.3
Right cheek	100	QPSK 1_137	659600/3894	77%	1.039	0.698	0.09	18.09	18.50	1.099	0.797	22.3
Right tilted	100	QPSK 1_137	659600/3894	77%	1.039	0.454	0.04	18.09	18.50	1.099	0.518	22.3
Right cheek	100	QPSK 1_137	650000/3750	77%	1.039	0.910	0.02	17.71	18.50	1.199	1.135	22.3
Right cheek	100	QPSK 1_271	652400/3786	77%	1.039	0.761	0.02	17.87	18.50	1.156	0.914	22.3
Right cheek	100	QPSK 1_271	654800/3822	77%	1.039	0.745	0.02	17.88	18.50	1.153	0.893	22.3
Right cheek	100	QPSK 1_137	657200/3858	77%	1.039	0.818	0.09	18.04	18.50	1.112	0.944	22.3
Right cheek	100	QPSK 1_137	662000/3930	77%	1.039	0.676	0.16	18.08	18.50	1.102	0.774	22.3
Right tilted	100	QPSK 1_137	650000/3750	77%	1.039	0.467	0.14	17.71	18.50	1.199	0.582	22.3
Right tilted	100	QPSK 1_271	652400/3786	77%	1.039	0.454	-0.09	17.87	18.50	1.156	0.545	22.3
Right tilted	100	QPSK 1_271	654800/3822	77%	1.039	0.441	-0.07	17.88	18.50	1.153	0.529	22.3
Right tilted	100	QPSK 1_137	657200/3858	77%	1.039	0.448	-0.02	18.04	18.50	1.112	0.517	22.3
Right tilted	100	QPSK 1_137	662000/3930	77%	1.039	0.397	0.05	18.08	18.50	1.102	0.454	22.3
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	662000/3930	77%	1.039	0.200	0.02	18.22	18.50	1.067	0.221	22.3
Left tilted	100	QPSK 135_69	662000/3930	77%	1.039	0.116	0.02	18.22	18.50	1.067	0.129	22.3
Right cheek	100	QPSK 135_69	662000/3930	77%	1.039	0.775	0.05	18.22	18.50	1.067	0.859	22.3
Right tilted	100	QPSK 135_69	662000/3930	77%	1.039	0.393	0.06	18.22	18.50	1.067	0.435	22.3
Right cheek	100	QPSK 135_69	650000/3750	77%	1.039	0.723	0.16	17.48	18.50	1.265	0.950	22.3
Right cheek	100	QPSK 135_69	652400/3786	77%	1.039	0.801	0.03	17.67	18.50	1.211	1.008	22.3
Right cheek	100	QPSK 135_69	654800/3822	77%	1.039	0.778	0.04	17.97	18.50	1.130	0.913	22.3
Right cheek	100	QPSK 135_69	657200/3858	77%	1.039	0.957	0.03	18.18	18.50	1.076	1.070	22.3
Right cheek-Repeated	100	QPSK 135_69	657200/3858	77%	1.039	0.942	0.03	18.18	18.50	1.076	1.054	22.3
Right cheek	100	QPSK 135_69	659600/3894	77%	1.039	0.776	0.05	18.20	18.50	1.072	0.863	22.3
Right tilted	100	QPSK 135_69	650000/3750	77%	1.039	0.468	-0.06	17.48	18.50	1.265	0.615	22.3
Right tilted	100	QPSK 135_69	652400/3786	77%	1.039	0.462	-0.05	17.67	18.50	1.211	0.581	22.3
Right tilted	100	QPSK 135_69	654800/3822	77%	1.039	0.469	-0.07	17.97	18.50	1.130	0.551	22.3



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Right tilted	100	QPSK 135_69	657200/3858	77%	1.039	0.462	0.02	18.18	18.50	1.076	0.516	22.3
Right tilted	100	QPSK 135_69	659600/3894	77%	1.039	0.417	0.07	18.20	18.50	1.072	0.464	22.3
Head Test Data ECI 4 (100%RB)												
Right cheek	100	QPSK 270_0	659600/3894	77%	1.039	0.655	-0.11	17.07	17.50	1.104	0.751	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_137	659600/3894	77%	1.039	0.298	-0.11	23.03	23.50	1.114	0.345	22.3
Back side	100	QPSK 1_137	659600/3894	77%	1.039	0.322	-0.09	23.03	23.50	1.114	0.373	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	662000/3930	77%	1.039	0.299	0.15	23.21	23.50	1.069	0.332	22.3
Back side	100	QPSK 135_69	662000/3930	77%	1.039	0.416	-0.02	23.21	23.50	1.069	0.462	22.3
Back side	100	QPSK 135_69	650000/3750	77%	1.039	0.342	-0.07	22.62	23.50	1.225	0.435	22.3
Back side	100	QPSK 135_69	652400/3786	77%	1.039	0.340	0.07	22.65	23.50	1.216	0.430	22.3
Back side	100	QPSK 135_69	654800/3822	77%	1.039	0.332	-0.14	22.97	23.50	1.130	0.390	22.3
Back side	100	QPSK 135_69	657200/3858	77%	1.039	0.337	0.07	22.96	23.50	1.132	0.397	22.3
Back side	100	QPSK 135_69	659600/3894	77%	1.039	0.376	-0.12	23.18	23.50	1.076	0.421	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_137	659600/3894	77%	1.039	0.588	0.03	23.03	23.50	1.114	0.681	22.3
Back side	100	QPSK 1_137	659600/3894	77%	1.039	0.742	0.17	23.03	23.50	1.114	0.859	22.3
Left side	100	QPSK 1_137	659600/3894	77%	1.039	0.916	0.01	23.03	23.50	1.114	1.061	22.3
Left side-Repeated	100	QPSK 1_137	659600/3894	77%	1.039	0.890	0.11	23.03	23.50	1.114	1.031	22.3
Top side	100	QPSK 1_137	659600/3894	77%	1.039	0.192	0.09	23.03	23.50	1.114	0.222	22.3
Front side	100	QPSK 1_271	650000/3750	77%	1.039	0.556	0.02	22.59	23.50	1.233	0.713	22.3
Front side	100	QPSK 1_271	652400/3786	77%	1.039	0.567	0.15	22.81	23.50	1.172	0.691	22.3
Front side	100	QPSK 1_271	654800/3822	77%	1.039	0.561	0.01	22.83	23.50	1.167	0.681	22.3
Front side	100	QPSK 1_137	657200/3858	77%	1.039	0.600	0.11	22.96	23.50	1.132	0.705	22.3
Front side	100	QPSK 1_137	662000/3930	77%	1.039	0.564	0.16	23.01	23.50	1.119	0.656	22.3
Back side	100	QPSK 1_271	650000/3750	77%	1.039	0.675	0.17	22.59	23.50	1.233	0.864	22.3
Back side	100	QPSK 1_271	652400/3786	77%	1.039	0.677	0.04	22.81	23.50	1.172	0.825	22.3
Back side	100	QPSK 1_271	654800/3822	77%	1.039	0.674	0.09	22.83	23.50	1.167	0.817	22.3
Back side	100	QPSK 1_137	657200/3858	77%	1.039	0.709	0.11	22.96	23.50	1.132	0.834	22.3
Back side	100	QPSK 1_137	662000/3930	77%	1.039	0.744	0.10	23.01	23.50	1.119	0.865	22.3
Left side	100	QPSK 1_271	650000/3750	77%	1.039	0.835	-0.10	22.59	23.50	1.233	1.070	22.3
Left side	100	QPSK 1_271	652400/3786	77%	1.039	0.802	0.13	22.81	23.50	1.172	0.977	22.3
Left side	100	QPSK 1_271	654800/3822	77%	1.039	0.780	0.09	22.83	23.50	1.167	0.945	22.3
Left side	100	QPSK 1_137	657200/3858	77%	1.039	0.816	0.09	22.96	23.50	1.132	0.960	22.3
Left side	100	QPSK 1_137	662000/3930	77%	1.039	0.765	0.14	23.01	23.50	1.119	0.889	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	662000/3930	77%	1.039	0.576	0.11	23.21	23.50	1.069	0.640	22.3
Back side	100	QPSK 135_69	662000/3930	77%	1.039	0.732	-0.16	23.21	23.50	1.069	0.814	22.3
Left side	100	QPSK 135_69	662000/3930	77%	1.039	0.781	0.00	23.21	23.50	1.069	0.868	22.3
Top side	100	QPSK 135_69	662000/3930	77%	1.039	0.224	0.10	23.21	23.50	1.069	0.248	22.3
Front side	100	QPSK 135_69	650000/3750	77%	1.039	0.611	0.15	22.62	23.50	1.225	0.777	22.3
Front side	100	QPSK 135_69	652400/3786	77%	1.039	0.588	0.14	22.65	23.50	1.216	0.743	22.3
Front side	100	QPSK 135_69	654800/3822	77%	1.039	0.592	-0.06	22.97	23.50	1.130	0.695	22.3
Front side	100	QPSK 135_69	657200/3858	77%	1.039	0.594	0.12	22.96	23.50	1.132	0.699	22.3
Front side	100	QPSK 135_69	659600/3894	77%	1.039	0.603	0.15	23.18	23.50	1.076	0.674	22.3
Back side	100	QPSK 135_69	650000/3750	77%	1.039	0.716	-0.10	22.62	23.50	1.225	0.911	22.3
Back side	100	QPSK 135_69	652400/3786	77%	1.039	0.714	0.07	22.65	23.50	1.216	0.902	22.3
Back side	100	QPSK 135_69	654800/3822	77%	1.039	0.703	-0.15	22.97	23.50	1.130	0.825	22.3
Back side	100	QPSK 135_69	657200/3858	77%	1.039	0.717	0.11	22.96	23.50	1.132	0.844	22.3
Back side	100	QPSK 135_69	659600/3894	77%	1.039	0.736	0.06	23.18	23.50	1.076	0.823	22.3



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Left side	100	QPSK 135_69	650000/3750	77%	1.039	0.914	0.02	22.62	23.50	1.225	1.163	22.3
Left side	100	QPSK 135_69	652400/3786	77%	1.039	0.905	-0.05	22.65	23.50	1.216	1.144	22.3
Left side	100	QPSK 135_69	654800/3822	77%	1.039	0.870	0.00	22.97	23.50	1.130	1.021	22.3
Left side	100	QPSK 135_69	657200/3858	77%	1.039	0.826	-0.02	22.96	23.50	1.132	0.971	22.3
Left side	100	QPSK 135_69	659600/3894	77%	1.039	0.807	-0.11	23.18	23.50	1.076	0.903	22.3
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												
Back side	100	QPSK 270_0	662000/3930	77%	1.039	0.606	-0.09	22.09	22.50	1.099	0.692	22.3
Left side	100	QPSK 270_0	662000/3930	77%	1.039	0.630	0.02	22.09	22.50	1.099	0.719	22.3
Ant 6 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 (1RB)												
Left cheek	100	QPSK 1_137	662000/3930	77%	1.039	0.887	0.03	19.98	20.80	1.208	1.113	22.3
Left cheek-Repeated	100	QPSK 1_137	662000/3930	77%	1.039	0.860	0.04	19.98	20.80	1.208	1.080	22.3
Left tilted	100	QPSK 1_137	662000/3930	77%	1.039	0.390	0.07	19.98	20.80	1.208	0.489	22.3
Right cheek	100	QPSK 1_137	662000/3930	77%	1.039	0.253	0.02	19.98	20.80	1.208	0.318	22.3
Right tilted	100	QPSK 1_137	662000/3930	77%	1.039	0.255	0.09	19.98	20.80	1.208	0.320	22.3
Left cheek	100	QPSK 1_1	650000/3750	77%	1.039	0.520	0.02	19.70	20.80	1.288	0.696	22.3
Left cheek	100	QPSK 1_137	652400/3786	77%	1.039	0.578	0.07	19.68	20.80	1.294	0.777	22.3
Left cheek	100	QPSK 1_137	654800/3822	77%	1.039	0.601	0.03	19.76	20.80	1.271	0.794	22.3
Left cheek	100	QPSK 1_137	657200/3858	77%	1.039	0.665	0.05	19.77	20.80	1.268	0.876	22.3
Left cheek	100	QPSK 1_137	659600/3894	77%	1.039	0.736	0.01	19.83	20.80	1.250	0.956	22.3
Left tilted	100	QPSK 1_1	650000/3750	77%	1.039	0.606	0.16	19.70	20.80	1.288	0.811	22.3
Left tilted	100	QPSK 1_137	652400/3786	77%	1.039	0.444	0.07	19.68	20.80	1.294	0.597	22.3
Left tilted	100	QPSK 1_137	654800/3822	77%	1.039	0.314	-0.04	19.76	20.80	1.271	0.415	22.3
Left tilted	100	QPSK 1_137	657200/3858	77%	1.039	0.268	0.03	19.77	20.80	1.268	0.353	22.3
Left tilted	100	QPSK 1_137	659600/3894	77%	1.039	0.428	0.06	19.83	20.80	1.250	0.556	22.3
Head Test Data ECI 4 (50%RB)												
Left cheek	100	QPSK 135_69	662000/3930	77%	1.039	0.833	0.02	19.86	20.80	1.242	1.074	22.3
Left tilted	100	QPSK 135_69	662000/3930	77%	1.039	0.327	-0.06	19.86	20.80	1.242	0.422	22.3
Right cheek	100	QPSK 135_69	662000/3930	77%	1.039	0.247	-0.03	19.86	20.80	1.242	0.319	22.3
Right tilted	100	QPSK 135_69	662000/3930	77%	1.039	0.250	0.07	19.86	20.80	1.242	0.322	22.3
Left cheek	100	QPSK 135_69	650000/3750	77%	1.039	0.548	0.01	19.59	20.80	1.321	0.752	22.3
Left cheek	100	QPSK 135_69	652400/3786	77%	1.039	0.589	0.04	19.55	20.80	1.334	0.816	22.3
Left cheek	100	QPSK 135_69	654800/3822	77%	1.039	0.612	0.10	19.64	20.80	1.306	0.830	22.3
Left cheek	100	QPSK 135_69	657200/3858	77%	1.039	0.669	0.04	19.63	20.80	1.309	0.910	22.3
Left cheek	100	QPSK 135_69	659600/3894	77%	1.039	0.740	0.10	19.80	20.80	1.259	0.968	22.3
Left tilted	100	QPSK 135_69	650000/3750	77%	1.039	0.560	-0.12	19.59	20.80	1.321	0.769	22.3
Left tilted	100	QPSK 135_69	652400/3786	77%	1.039	0.629	-0.08	19.55	20.80	1.334	0.872	22.3
Left tilted	100	QPSK 135_69	654800/3822	77%	1.039	0.338	-0.05	19.64	20.80	1.306	0.458	22.3
Left tilted	100	QPSK 135_69	657200/3858	77%	1.039	0.268	0.06	19.63	20.80	1.309	0.365	22.3
Left tilted	100	QPSK 135_69	659600/3894	77%	1.039	0.466	0.02	19.80	20.80	1.259	0.610	22.3
Head Test Data ECI 4 (100%RB)												
Left cheek	100	QPSK 270_0	662000/3930	77%	1.039	0.615	-0.11	18.87	19.80	1.239	0.792	22.3
Left tilted	100	QPSK 270_0	662000/3930	77%	1.039	0.301	0.01	18.87	19.80	1.239	0.388	22.3
Body worn Test data ECI 1 (Separate 15mm 1RB)												
Front side	100	QPSK 1_1	662000/3930	50%	1.000	0.197	0.17	24.85	25.30	1.109	0.219	22.3
Back side	100	QPSK 1_1	662000/3930	50%	1.000	0.228	0.09	24.85	25.30	1.109	0.253	22.3
Body worn Test data ECI 1 (Separate 15mm 50%RB)												
Front side	100	QPSK 135_69	662000/3930	50%	1.000	0.194	0.13	24.43	25.30	1.222	0.237	22.3



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Back side	100	QPSK 135_69	662000/3930	50%	1.000	0.235	0.08	24.43	25.30	1.222	0.287	22.3
Hotspot Test data ECI 3 (Separate 10mm 1RB)												
Front side	100	QPSK 1_1	662000/3930	50%	1.000	0.254	0.10	24.85	25.30	1.109	0.282	22.3
Back side	100	QPSK 1_1	662000/3930	50%	1.000	0.566	0.03	24.85	25.30	1.109	0.628	22.3
Right side	100	QPSK 1_1	662000/3930	50%	1.000	0.414	0.08	24.85	25.30	1.109	0.459	22.3
Top side	100	QPSK 1_1	662000/3930	50%	1.000	0.390	0.09	24.85	25.30	1.109	0.433	22.3
Back side	100	QPSK 1_137	650000/3750	50%	1.000	0.545	-0.03	24.50	25.30	1.202	0.655	22.3
Back side	100	QPSK 1_271	652400/3786	50%	1.000	0.439	0.18	24.47	25.30	1.211	0.531	22.3
Back side	100	QPSK 1_137	654800/3822	50%	1.000	0.561	-0.09	24.79	25.30	1.125	0.631	22.3
Back side	100	QPSK 1_137	657200/3858	50%	1.000	0.539	-0.11	24.75	25.30	1.135	0.612	22.3
Back side	100	QPSK 1_271	659600/3894	50%	1.000	0.528	0.14	24.73	25.30	1.140	0.602	22.3
Right side	100	QPSK 1_137	650000/3750	50%	1.000	0.613	0.03	24.50	25.30	1.202	0.737	22.3
Right side	100	QPSK 1_271	652400/3786	50%	1.000	0.570	0.13	24.47	25.30	1.211	0.690	22.3
Right side	100	QPSK 1_137	654800/3822	50%	1.000	0.442	-0.02	24.79	25.30	1.125	0.497	22.3
Right side	100	QPSK 1_137	657200/3858	50%	1.000	0.574	0.01	24.75	25.30	1.135	0.651	22.3
Right side	100	QPSK 1_271	659600/3894	50%	1.000	0.529	-0.12	24.73	25.30	1.140	0.603	22.3
Top side	100	QPSK 1_137	650000/3750	50%	1.000	0.669	0.06	24.50	25.30	1.202	0.804	22.3
Top side	100	QPSK 1_271	652400/3786	50%	1.000	0.342	0.18	24.47	25.30	1.211	0.414	22.3
Top side	100	QPSK 1_137	654800/3822	50%	1.000	0.431	-0.07	24.79	25.30	1.125	0.485	22.3
Top side	100	QPSK 1_137	657200/3858	50%	1.000	0.298	-0.03	24.75	25.30	1.135	0.338	22.3
Top side	100	QPSK 1_271	659600/3894	50%	1.000	0.274	-0.18	24.73	25.30	1.140	0.312	22.3
Hotspot Test data ECI 3 (Separate 10mm 50%RB)												
Front side	100	QPSK 135_69	662000/3930	50%	1.000	0.263	-0.17	24.43	25.30	1.222	0.321	22.3
Back side	100	QPSK 135_69	662000/3930	50%	1.000	0.518	0.03	24.43	25.30	1.222	0.633	22.3
Right side	100	QPSK 135_69	662000/3930	50%	1.000	0.326	-0.02	24.43	25.30	1.222	0.398	22.3
Top side	100	QPSK 135_69	662000/3930	50%	1.000	0.279	-0.05	24.43	25.30	1.222	0.341	22.3
Back side	100	QPSK 135_69	654800/3822	50%	1.000	0.499	0.04	24.42	25.30	1.225	0.611	22.3
Back side	100	QPSK 135_69	657200/3858	50%	1.000	0.512	-0.17	24.41	25.30	1.227	0.628	22.3
Back side	100	QPSK 135_69	659600/3894	50%	1.000	0.537	-0.01	24.39	25.30	1.233	0.662	22.3
Back side	100	QPSK 135_69	650000/3750	50%	1.000	0.515	0.04	24.16	25.30	1.300	0.670	22.3
Back side	100	QPSK 135_69	652400/3786	50%	1.000	0.489	0.13	24.14	25.30	1.306	0.639	22.3
Hotspot Test data ECI 3 (Separate 10mm 100%RB)												
Top side	100	QPSK 270_0	654800/3822	50%	1.000	0.387	0.02	23.29	24.30	1.262	0.488	22.3

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Left side	633334/3500	0.878	0.860	1.021	N/A	N/A
Left side	633334/3500	2.220	2.140	1.037	N/A	N/A
Left cheek	633334/3500	0.887	0.856	1.036	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 35: SAR of 5G NR n77 for Head and Body and Product specific 10g SAR.



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8.2.26 SAR Result of WIFI 2.4G

Ant7 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4											
Left cheek	802.11b	6/2437	99.55%	1.005	0.883	-0.01	16.37	16.50	1.030	0.914	22.3
Left cheek-Repeated	802.11b	6/2437	99.55%	1.005	0.869	0.11	16.37	16.50	1.030	0.899	22.3
Left tilted	802.11b	6/2437	99.55%	1.005	0.758	0.03	16.37	16.50	1.030	0.785	22.3
Right cheek	802.11b	6/2437	99.55%	1.005	0.436	0.02	16.37	16.50	1.030	0.451	22.3
Right tilted	802.11b	6/2437	99.55%	1.005	0.421	-0.06	16.37	16.50	1.030	0.436	22.3
Left cheek	802.11b	11/2462	99.55%	1.005	0.870	-0.15	16.08	16.50	1.102	0.963	22.3
Head Test Data ECI 6											
Left cheek	802.11b	6/2437	99.55%	1.005	0.883	-0.01	16.37	12.00	0.366	0.324	22.3
Left cheek-Repeated	802.11b	6/2437	99.55%	1.005	0.869	0.11	16.37	12.00	0.366	0.319	22.3
Left tilted	802.11b	6/2437	99.55%	1.005	0.758	0.03	16.37	12.00	0.366	0.278	22.3
Right cheek	802.11b	6/2437	99.55%	1.005	0.436	0.02	16.37	12.00	0.366	0.160	22.3
Right tilted	802.11b	6/2437	99.55%	1.005	0.421	-0.06	16.37	12.00	0.366	0.155	22.3
Left cheek	802.11b	11/2462	99.55%	1.005	0.870	-0.15	16.08	12.00	0.391	0.342	22.3
Body worn Test data ECI 1 (Separate 15mm)											
Front side	802.11b	6/2437	99.55%	1.005	0.190	0.04	19.83	20.00	1.040	0.198	22.3
Back side	802.11b	6/2437	99.55%	1.005	0.190	0.03	19.83	20.00	1.040	0.198	22.3
Hotspot Test data ECI 3 (Separate 10mm)											
Front side	802.11b	6/2437	99.55%	1.005	0.331	0.01	19.83	20.00	1.040	0.346	22.3
Back side	802.11b	6/2437	99.55%	1.005	0.390	0.07	19.83	20.00	1.040	0.407	22.3
Right side	802.11b	6/2437	99.55%	1.005	0.394	-0.13	19.83	20.00	1.040	0.412	22.3
Top side	802.11b	6/2437	99.55%	1.005	0.336	-0.14	19.83	20.00	1.040	0.351	22.3
Ant9 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4											
Left cheek	802.11b	11/2462	99.55%	1.005	0.495	0.01	20.83	21.00	1.040	0.517	22.3
Left tilted	802.11b	11/2462	99.55%	1.005	0.202	0.01	20.83	21.00	1.040	0.211	22.3
Right cheek	802.11b	11/2462	99.55%	1.005	0.176	0.15	20.83	21.00	1.040	0.184	22.3
Right tilted	802.11b	11/2462	99.55%	1.005	0.111	0.08	20.83	21.00	1.040	0.116	22.3
Head Test Data ECI 6											
Left cheek	802.11b	11/2462	99.55%	1.005	0.495	0.01	20.83	17.50	0.465	0.231	22.3
Left tilted	802.11b	11/2462	99.55%	1.005	0.202	0.01	20.83	17.50	0.465	0.094	22.3
Right cheek	802.11b	11/2462	99.55%	1.005	0.176	0.15	20.83	17.50	0.465	0.082	22.3
Right tilted	802.11b	11/2462	99.55%	1.005	0.111	0.08	20.83	17.50	0.465	0.052	22.3
Body worn Test data ECI 1 (Separate 15mm)											
Front side	802.11b	11/2462	99.55%	1.005	0.067	0.04	20.83	21.00	1.040	0.070	22.3
Back side	802.11b	11/2462	99.55%	1.005	0.145	0.01	20.83	21.00	1.040	0.151	22.3
Hotspot Test data ECI 3 (Separate 10mm)											
Front side	802.11b	11/2462	99.55%	1.005	0.130	0.02	20.21	20.50	1.069	0.140	22.1
Back side	802.11b	11/2462	99.55%	1.005	0.285	0.01	20.21	20.50	1.069	0.306	22.1
Right side	802.11b	11/2462	99.55%	1.005	0.192	0.09	20.21	20.50	1.069	0.206	22.1
Top side	802.11b	11/2462	99.55%	1.005	0.061	-0.02	20.21	20.50	1.069	0.066	22.1



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MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4											
Left cheek	802.11n HT20	6/2437	96.65%	1.035	0.913	-0.12	19.80	20.00	1.046	0.988	22.1
Left cheek-Repeated	802.11n HT20	6/2437	96.65%	1.035	0.899	0.01	19.80	20.00	1.046	0.973	22.1
Left tilted	802.11n HT20	6/2437	96.65%	1.035	0.769	0.06	19.80	20.00	1.046	0.832	22.1
Right cheek	802.11n HT20	6/2437	96.65%	1.035	0.431	0.01	19.80	20.00	1.046	0.466	22.1
Right tilted	802.11n HT20	6/2437	96.65%	1.035	0.394	0.09	19.80	20.00	1.046	0.426	22.1
Left cheek	802.11n HT20	11/2462	96.65%	1.035	0.652	-0.06	19.78	20.00	1.052	0.710	22.1
Left tilted	802.11n HT20	11/2462	96.65%	1.035	0.526	-0.01	19.78	20.00	1.052	0.573	22.1
Head Test Data ECI 6											
Left cheek	802.11n HT20	6/2437	96.65%	1.035	0.913	-0.12	19.80	15.50	0.371	0.351	22.1
Left cheek-Repeated	802.11n HT20	6/2437	96.65%	1.035	0.899	0.01	19.80	15.50	0.371	0.345	22.1
Left tilted	802.11n HT20	6/2437	96.65%	1.035	0.769	0.06	19.80	15.50	0.371	0.295	22.1
Right cheek	802.11n HT20	6/2437	96.65%	1.035	0.431	0.01	19.80	15.50	0.371	0.166	22.1
Right tilted	802.11n HT20	6/2437	96.65%	1.035	0.394	0.09	19.80	15.50	0.371	0.151	22.1
Left cheek	802.11n HT20	11/2462	96.65%	1.035	0.652	-0.06	19.78	15.50	0.373	0.252	22.1
Left tilted	802.11n HT20	11/2462	96.65%	1.035	0.526	-0.01	19.78	15.50	0.373	0.203	22.1
Body worn Test data ECI 1 (Separate 15mm)											
Front side	802.11n HT20	6/2437	96.65%	1.035	0.133	0.01	21.34	21.50	1.038	0.143	22.1
Back side	802.11n HT20	6/2437	96.65%	1.035	0.208	0.02	21.34	21.50	1.038	0.223	22.1
Hotspot Test data ECI 3 (Separate 10mm)											
Front side	802.11n HT20	6/2437	96.65%	1.035	0.204	0.02	20.23	20.50	1.065	0.225	22.1
Back side	802.11n HT20	6/2437	96.65%	1.035	0.301	0.15	20.23	20.50	1.065	0.332	22.1
Right side	802.11n HT20	6/2437	96.65%	1.035	0.298	0.09	20.23	20.50	1.065	0.328	22.1
Top side	802.11n HT20	6/2437	96.65%	1.035	0.137	0.03	20.23	20.50	1.065	0.151	22.1

Test Position	Channel/Frequency	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	6/2437	0.883	0.869	1.016	N/A	N/A
Left cheek	6/2437	0.913	0.899	1.016	N/A	N/A

- Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 36: SAR of WIFI 2.4G for Head and Body.

Note:

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



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8.2.27 SAR Result of WIFI 5G

Ant7 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 of U-NII-2A											
Left cheek	802.11a	60/5300	96.86%	1.032	0.557	-0.18	17.24	18.00	1.191	0.685	21.3
Left tilted	802.11a	60/5300	96.86%	1.032	0.818	0.03	17.24	18.00	1.191	1.006	21.3
Right cheek	802.11a	60/5300	96.86%	1.032	0.306	-0.14	17.24	18.00	1.191	0.376	21.3
Right tilted	802.11a	60/5300	96.86%	1.032	0.424	-0.11	17.24	18.00	1.191	0.521	21.3
Left tilted	802.11a	56/5280	96.86%	1.032	0.952	0.04	17.18	18.00	1.208	1.187	21.3
Left tilted-Repeated	802.11a	56/5280	96.86%	1.032	0.932	0.14	17.18	18.00	1.208	1.162	21.3
Head Test Data ECI 4 of U-NII-2C											
Left cheek	802.11a	108/5540	96.86%	1.032	0.607	0.02	14.81	16.00	1.315	0.824	21.3
Left tilted	802.11a	108/5540	96.86%	1.032	0.835	0.09	14.81	16.00	1.315	1.134	21.3
Right cheek	802.11a	108/5540	96.86%	1.032	0.310	-0.16	14.81	16.00	1.315	0.421	21.3
Right tilted	802.11a	108/5540	96.86%	1.032	0.424	0.09	14.81	16.00	1.315	0.576	21.3
Left tilted	802.11a	104/5520	96.86%	1.032	0.796	0.01	14.69	16.00	1.352	1.111	21.3
Head Test Data ECI 4 of U-NII-3											
Left cheek	802.11a	153/5765	96.86%	1.032	0.586	-0.11	13.15	14.00	1.216	0.736	21.3
Left tilted	802.11a	153/5765	96.86%	1.032	0.924	0.02	13.15	14.00	1.216	1.160	21.3
Right cheek	802.11a	153/5765	96.86%	1.032	0.369	-0.04	13.15	14.00	1.216	0.463	21.3
Right tilted	802.11a	153/5765	96.86%	1.032	0.465	-0.12	13.15	14.00	1.216	0.584	21.3
Left tilted	802.11a	149/5745	96.86%	1.032	0.764	0.09	13.13	14.00	1.222	0.964	21.3
Head Test Data ECI 6 of U-NII-2A											
Left cheek	802.11a	60/5300	96.86%	1.032	0.557	-0.18	17.24	13.00	0.377	0.217	21.3
Left tilted	802.11a	60/5300	96.86%	1.032	0.818	0.03	17.24	13.00	0.377	0.318	21.3
Right cheek	802.11a	60/5300	96.86%	1.032	0.306	-0.14	17.24	13.00	0.377	0.119	21.3
Right tilted	802.11a	60/5300	96.86%	1.032	0.424	-0.11	17.24	13.00	0.377	0.165	21.3
Left tilted	802.11a	56/5280	96.86%	1.032	0.952	0.04	17.18	13.00	0.382	0.375	21.3
Left tilted-Repeated	802.11a	56/5280	96.86%	1.032	0.932	0.14	17.18	13.00	0.382	0.368	21.3
Head Test Data ECI 6 of U-NII-2C											
Left cheek	802.11a	108/5540	96.86%	1.032	0.607	0.02	14.81	11.00	0.416	0.261	21.3
Left tilted	802.11a	108/5540	96.86%	1.032	0.835	0.09	14.81	11.00	0.416	0.359	21.3
Right cheek	802.11a	108/5540	96.86%	1.032	0.310	-0.16	14.81	11.00	0.416	0.133	21.3
Right tilted	802.11a	108/5540	96.86%	1.032	0.424	0.09	14.81	11.00	0.416	0.182	21.3
Left tilted	802.11a	104/5520	96.86%	1.032	0.796	0.01	14.69	11.00	0.428	0.351	21.3
Head Test Data ECI 6 of U-NII-3											
Left cheek	802.11a	153/5765	96.86%	1.032	0.586	-0.11	13.15	9.00	0.385	0.233	21.3
Left tilted	802.11a	153/5765	96.86%	1.032	0.924	0.02	13.15	9.00	0.385	0.367	21.3
Right cheek	802.11a	153/5765	96.86%	1.032	0.369	-0.04	13.15	9.00	0.385	0.147	21.3
Right tilted	802.11a	153/5765	96.86%	1.032	0.465	-0.12	13.15	9.00	0.385	0.185	21.3
Left tilted	802.11a	149/5745	96.86%	1.032	0.764	0.09	13.13	9.00	0.386	0.305	21.3
Body worn Test data ECI 1 of U-NII-2A (Separate 15mm)											
Front side	802.11a	60/5300	96.86%	1.032	0.135	0.00	17.30	18.00	1.175	0.164	21.4
Back side	802.11a	60/5300	96.86%	1.032	0.477	-0.15	17.30	18.00	1.175	0.579	21.4
Body worn Test data ECI 1 of U-NII-2C (Separate 15mm)											
Front side	802.11a	120/5600	96.86%	1.032	0.112	-0.01	17.03	18.00	1.250	0.145	21.4
Back side	802.11a	120/5600	96.86%	1.032	0.681	-0.05	17.03	18.00	1.250	0.879	21.4



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Back side	802.11a	100/5500	96.86%	1.032	0.716	0.03	17.01	18.00	1.256	0.928	21.4
Body worn Test data ECI 1 of U-NII-3 (Separate 15mm)											
Front side	802.11a	153/5765	96.86%	1.032	0.223	0.03	16.15	17.00	1.216	0.280	21.4
Back side	802.11a	153/5765	96.86%	1.032	0.536	0.06	16.15	17.00	1.216	0.673	21.4
Body worn Test data ECI 2 of U-NII-2C (Separate 15mm)											
Front side	802.11a	120/5600	96.86%	1.032	0.112	-0.01	17.03	14.00	0.498	0.058	21.4
Back side	802.11a	120/5600	96.86%	1.032	0.681	-0.05	17.03	14.00	0.498	0.350	21.4
Back side	802.11a	100/5500	96.86%	1.032	0.716	0.03	17.01	14.00	0.500	0.370	21.4
Hotspot Test data ECI 3 of U-NII-1 (Separate 10mm)											
Front side	802.11a	44/5220	96.86%	1.032	0.078	0.02	13.86	14.50	1.159	0.093	21.4
Back side	802.11a	44/5220	96.86%	1.032	0.322	0.00	13.86	14.50	1.159	0.385	21.4
Right side	802.11a	44/5220	96.86%	1.032	0.246	-0.04	13.86	14.50	1.159	0.294	21.4
Top side	802.11a	44/5220	96.86%	1.032	0.301	0.09	13.86	14.50	1.159	0.360	21.4
Hotspot Test data ECI 3 of U-NII-3 (Separate 10mm)											
Front side	802.11a	153/5765	96.86%	1.032	0.105	0.01	10.46	11.50	1.271	0.138	21.4
Back side	802.11a	153/5765	96.86%	1.032	0.262	0.09	10.46	11.50	1.271	0.344	21.4
Right side	802.11a	153/5765	96.86%	1.032	0.158	0.11	10.46	11.50	1.271	0.207	21.4
Top side	802.11a	153/5765	96.86%	1.032	0.237	0.05	10.46	11.50	1.271	0.311	21.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data ECI 1 of U-NII-2A (Separate 0mm)											
Front side	802.11a	60/5300	96.86%	1.032	0.506	0.00	17.30	18.00	1.175	0.614	21.4
Back side	802.11a	60/5300	96.86%	1.032	0.936	-0.15	17.30	18.00	1.175	1.135	21.4
Right side	802.11a	60/5300	96.86%	1.032	0.675	0.00	17.30	18.00	1.175	0.819	21.4
Top side	802.11a	60/5300	96.86%	1.032	1.910	0.01	17.30	18.00	1.175	2.317	21.4
Top side	802.11a	64/5320	96.86%	1.032	2.330	0.06	17.19	18.00	1.205	2.899	21.4
Product specific 10g SAR Test data ECI 1 of U-NII-2C (Separate 0mm)											
Front side	802.11a	120/5600	96.86%	1.032	0.479	0.12	17.13	18.00	1.222	0.604	21.4
Back side	802.11a	120/5600	96.86%	1.032	1.000	0.16	17.13	18.00	1.222	1.261	21.4
Right side	802.11a	120/5600	96.86%	1.032	1.130	0.14	17.13	18.00	1.222	1.425	21.4
Top side	802.11a	120/5600	96.86%	1.032	2.140	0.10	17.13	18.00	1.222	2.699	21.4
Top side	802.11a	100/5500	96.86%	1.032	2.350	0.09	17.11	18.00	1.227	2.978	21.4
Top side-Repeated	802.11a	100/5500	96.86%	1.032	2.300	0.19	17.11	18.00	1.227	2.915	21.4
Top side	802.11a	108/5540	96.86%	1.032	1.960	0.09	17.13	18.00	1.222	0.604	21.4
Product specific 10g SAR Test data ECI 2 of U-NII-2A (Separate 0mm)											
Front side	802.11a	60/5300	96.86%	1.032	0.506	0.00	17.30	14.00	0.468	0.244	21.4
Back side	802.11a	60/5300	96.86%	1.032	0.936	-0.15	17.30	14.00	0.468	0.452	21.4
Right side	802.11a	60/5300	96.86%	1.032	0.675	0.00	17.30	14.00	0.468	0.326	21.4
Top side	802.11a	60/5300	96.86%	1.032	1.910	0.01	17.30	14.00	0.468	0.922	21.4
Top side	802.11a	64/5320	96.86%	1.032	2.330	0.06	17.19	14.00	0.480	1.154	21.4
Product specific 10g SAR Test data ECI2 of U-NII-2C (Separate 0mm)											
Front side	802.11a	120/5600	96.86%	1.032	0.479	0.12	17.13	14.00	0.486	0.241	21.4
Back side	802.11a	120/5600	96.86%	1.032	1.000	0.16	17.13	14.00	0.486	0.502	21.4
Right side	802.11a	120/5600	96.86%	1.032	1.130	0.14	17.13	14.00	0.486	0.567	21.4
Top side	802.11a	120/5600	96.86%	1.032	2.140	0.10	17.13	14.00	0.486	1.075	21.4
Top side	802.11a	100/5500	96.86%	1.032	2.350	0.09	17.11	14.00	0.489	1.186	21.4
Top side-Repeated	802.11a	100/5500	96.86%	1.032	2.300	0.19	17.11	14.00	0.489	1.160	21.4
Top side	802.11a	108/5540	96.86%	1.032	1.960	0.09	17.13	14.00	0.486	0.241	21.4



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Ant9 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 of U-NII-2A											
Left cheek	802.11a	56/5280	96.86%	1.032	0.240	0.14	18.89	20.00	1.291	0.320	21.4
Left tilted	802.11a	56/5280	96.86%	1.032	0.193	-0.10	18.89	20.00	1.291	0.257	21.4
Right cheek	802.11a	56/5280	96.86%	1.032	0.089	0.03	18.89	20.00	1.291	0.119	21.4
Right tilted	802.11a	56/5280	96.86%	1.032	0.095	-0.05	18.89	20.00	1.291	0.127	21.4
Head Test Data ECI 4 of U-NII-2C											
Left cheek	802.11a	124/5620	96.86%	1.032	0.064	0.05	18.54	20.00	1.400	0.093	21.4
Left tilted	802.11a	124/5620	96.86%	1.032	0.057	-0.13	18.54	20.00	1.400	0.082	21.4
Right cheek	802.11a	124/5620	96.86%	1.032	0.052	-0.10	18.54	20.00	1.400	0.075	21.4
Right tilted	802.11a	124/5620	96.86%	1.032	0.058	0.07	18.54	20.00	1.400	0.084	21.4
Head Test Data ECI 4 of U-NII-3											
Left cheek	802.11a	157/5785	96.86%	1.032	0.144	0.13	19.21	20.00	1.199	0.178	21.4
Left tilted	802.11a	157/5785	96.86%	1.032	0.120	-0.15	19.21	20.00	1.199	0.149	21.4
Right cheek	802.11a	157/5785	96.86%	1.032	0.087	0.13	19.21	20.00	1.199	0.108	21.4
Right tilted	802.11a	157/5785	96.86%	1.032	0.057	0.17	19.21	20.00	1.199	0.071	21.4
Head Test Data ECI 6 of U-NII-2A											
Left cheek	802.11a	56/5280	96.86%	1.032	0.240	0.14	18.89	19.00	1.026	0.254	21.4
Left tilted	802.11a	56/5280	96.86%	1.032	0.193	-0.10	18.89	19.00	1.026	0.204	21.4
Right cheek	802.11a	56/5280	96.86%	1.032	0.089	0.03	18.89	19.00	1.026	0.094	21.4
Right tilted	802.11a	56/5280	96.86%	1.032	0.095	-0.05	18.89	19.00	1.026	0.101	21.4
Body worn Test data ECI 1 of U-NII-2A (Separate 15mm)											
Front side	802.11a	56/5280	96.86%	1.032	0.084	0.01	18.89	20.00	1.291	0.112	21.4
Back side	802.11a	56/5280	96.86%	1.032	0.230	0.06	18.89	20.00	1.291	0.307	21.4
Body worn Test data ECI 1 of U-NII-2C (Separate 15mm)											
Front side	802.11a	124/5620	96.86%	1.032	0.064	0.02	18.54	20.00	1.400	0.092	21.4
Back side	802.11a	124/5620	96.86%	1.032	0.557	0.07	18.54	20.00	1.400	0.805	21.4
Back side	802.11a	100/5500	96.86%	1.032	0.494	0.09	18.52	20.00	1.406	0.717	21.4
Body worn Test data ECI 1 of U-NII-3 (Separate 15mm)											
Front side	802.11a	157/5785	96.86%	1.032	0.140	-0.17	18.77	19.50	1.183	0.171	21.4
Back side	802.11a	157/5785	96.86%	1.032	0.968	-0.05	18.77	19.50	1.183	1.182	21.4
Back side-Repeated	802.11a	157/5785	96.86%	1.032	0.946	-0.15	18.77	19.50	1.183	1.155	21.4
Back side	802.11a	149/5745	96.86%	1.032	0.824	-0.09	18.59	19.50	1.233	1.049	21.4
Body worn Test data ECI 2 of U-NII-2C (Separate 15mm)											
Front side	802.11a	124/5620	96.86%	1.032	0.064	0.02	18.54	17.00	0.701	0.046	21.4
Back side	802.11a	124/5620	96.86%	1.032	0.557	0.07	18.54	17.00	0.701	0.403	21.4
Back side	802.11a	100/5500	96.86%	1.032	0.494	0.09	18.52	17.00	0.705	0.359	21.4
Body worn Test data ECI 2 of U-NII-3 (Separate 15mm)											
Front side	802.11a	157/5785	96.86%	1.032	0.140	-0.17	18.77	16.50	0.593	0.086	21.4
Back side	802.11a	157/5785	96.86%	1.032	0.968	-0.05	18.77	16.50	0.593	0.593	21.4
Back side-Repeated	802.11a	157/5785	96.86%	1.032	0.946	-0.15	18.77	16.50	0.593	0.579	21.4
Back side	802.11a	149/5745	96.86%	1.032	0.824	-0.09	18.59	16.50	0.618	0.526	21.4
Hotspot Test data ECI 3 of U-NII-1 (Separate 10mm)											
Front side	802.11a	44/5220	96.86%	1.032	0.082	0.05	18.96	20.00	1.271	0.108	21.4
Back side	802.11a	44/5220	96.86%	1.032	0.245	-0.07	18.96	20.00	1.271	0.321	21.4
Right side	802.11a	44/5220	96.86%	1.032	0.215	0.06	18.96	20.00	1.271	0.282	21.4



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Top side	802.11a	44/5220	96.86%	1.032	0.128	-0.16	18.96	20.00	1.271	0.168	21.4
Hotspot Test data ECI 3 of U-NII-3 (Separate 10mm)											
Front side	802.11a	157/5785	96.86%	1.032	0.097	0.03	12.97	14.00	1.268	0.127	21.4
Back side	802.11a	157/5785	96.86%	1.032	0.282	-0.07	12.97	14.00	1.268	0.369	21.4
Right side	802.11a	157/5785	96.86%	1.032	0.176	0.08	12.97	14.00	1.268	0.230	21.4
Top side	802.11a	157/5785	96.86%	1.032	0.087	-0.02	12.97	14.00	1.268	0.114	21.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data ECI 1 of U-NII-2A (Separate 0mm)											
Front side	802.11a	56/5280	96.86%	1.032	0.243	0.15	18.89	20.00	1.291	0.324	21.4
Back side	802.11a	56/5280	96.86%	1.032	0.781	-0.08	18.89	20.00	1.291	1.041	21.4
Right side	802.11a	56/5280	96.86%	1.032	0.740	-0.01	18.89	20.00	1.291	0.986	21.4
Top side	802.11a	56/5280	96.86%	1.032	0.158	-0.17	18.89	20.00	1.291	0.211	21.4
Product specific 10g SAR Test data of ECI 1 U-NII-2C (Separate 0mm)											
Front side	802.11a	124/5620	96.86%	1.032	0.094	0.12	18.54	20.00	1.400	0.136	21.4
Back side	802.11a	124/5620	96.86%	1.032	0.747	0.09	18.54	20.00	1.400	1.079	21.4
Right side	802.11a	124/5620	96.86%	1.032	0.573	-0.05	18.54	20.00	1.400	0.828	21.4
Top side	802.11a	124/5620	96.86%	1.032	0.084	-0.04	18.54	20.00	1.400	0.121	21.4
Product specific 10g SAR Test data ECI 1 of U-NII-3 (Separate 0mm)											
Back side	802.11a	157/5785	96.86%	1.032	0.837	0.03	18.77	19.50	1.183	1.022	21.4
Product specific 10gSAR Test data ECI 2 of U-NII-2A (Separate 0mm)											
Front side	802.11a	56/5280	96.86%	1.032	0.243	0.15	18.89	17.00	0.647	0.162	21.4
Back side	802.11a	56/5280	96.86%	1.032	0.781	-0.08	18.89	17.00	0.647	0.522	21.4
Right side	802.11a	56/5280	96.86%	1.032	0.740	-0.01	18.89	17.00	0.647	0.494	21.4
Top side	802.11a	56/5280	96.86%	1.032	0.158	-0.17	18.89	17.00	0.647	0.106	21.4
Product specific 10g SAR Test data ECI 2 of U-NII-2C (Separate 0mm)											
Front side	802.11a	124/5620	96.86%	1.032	0.094	0.12	18.54	17.00	0.701	0.068	21.4
Back side	802.11a	124/5620	96.86%	1.032	0.747	0.09	18.54	17.00	0.701	0.541	21.4
Right side	802.11a	124/5620	96.86%	1.032	0.573	-0.05	18.54	17.00	0.701	0.415	21.4
Top side	802.11a	124/5620	96.86%	1.032	0.084	-0.04	18.54	17.00	0.701	0.061	21.4
Product specific 10g SAR Test data ECI 2 of U-NII-3 (Separate 0mm)											
Back side	802.11a	157/5785	96.86%	1.032	0.837	0.03	18.77	16.50	0.593	0.512	21.4
MIMO Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4 of U-NII-2A											
Left cheek	802.11n-HT20	56/5280	96.65%	1.035	0.663	-0.03	21.15	22.00	1.216	0.834	21.4
Left tilted	802.11n-HT20	56/5280	96.65%	1.035	0.718	0.02	21.15	22.00	1.216	0.903	21.4
Right cheek	802.11n-HT20	56/5280	96.65%	1.035	0.313	0.04	21.15	22.00	1.216	0.394	21.4
Right tilted	802.11n-HT20	56/5280	96.65%	1.035	0.422	-0.09	21.15	22.00	1.216	0.531	21.4
Left tilted	802.11n-HT20	64/5320	96.65%	1.035	0.942	0.09	21.14	22.00	1.219	1.188	21.4
Left tilted-Repeated	802.11n-HT20	64/5320	96.65%	1.035	0.922	0.19	21.14	22.00	1.219	1.163	21.4
Head Test Data ECI 4 of U-NII-2C											
Left cheek	802.11n-HT20	124/5620	96.65%	1.035	0.529	0.05	18.76	19.50	1.186	0.649	21.4
Left tilted	802.11n-HT20	124/5620	96.65%	1.035	0.736	0.12	18.76	19.50	1.186	0.903	21.4
Right cheek	802.11n-HT20	124/5620	96.65%	1.035	0.335	0.17	18.76	19.50	1.186	0.411	21.4
Right tilted	802.11n-HT20	124/5620	96.65%	1.035	0.485	0.06	18.76	19.50	1.186	0.595	21.4
Left tilted	802.11n-HT20	116/5580	96.65%	1.035	0.885	0.07	18.73	19.50	1.194	1.093	21.4
Head Test Data ECI 4 of U-NII-3											



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Left cheek	802.11n-HT20	157/5785	96.65%	1.035	0.589	-0.18	17.96	19.00	1.271	0.774	21.4
Left tilted	802.11n-HT20	157/5785	96.65%	1.035	0.898	0.03	17.96	19.00	1.271	1.181	21.4
Right cheek	802.11n-HT20	157/5785	96.65%	1.035	0.353	-0.03	17.96	19.00	1.271	0.464	21.4
Right tilted	802.11n-HT20	157/5785	96.65%	1.035	0.464	-0.13	17.96	19.00	1.271	0.610	21.4
Left tilted	802.11n-HT20	153/5765	96.65%	1.035	0.858	0.06	17.82	19.00	1.312	1.165	21.4
Head Test Data ECI 6 of U-NII-2A											
Left cheek	802.11n-HT20	56/5280	96.65%	1.035	0.663	-0.03	21.15	17.00	0.385	0.264	21.4
Left tilted	802.11n-HT20	56/5280	96.65%	1.035	0.718	0.02	21.15	17.00	0.385	0.286	21.4
Right cheek	802.11n-HT20	56/5280	96.65%	1.035	0.313	0.04	21.15	17.00	0.385	0.125	21.4
Right tilted	802.11n-HT20	56/5280	96.65%	1.035	0.422	-0.09	21.15	17.00	0.385	0.168	21.4
Left tilted	802.11n-HT20	64/5320	96.65%	1.035	0.942	0.09	21.14	17.00	0.385	0.376	21.4
Left tilted-Repeated	802.11n-HT20	64/5320	96.65%	1.035	0.922	0.19	21.14	17.00	0.385	0.368	21.4
Head Test Data ECI 6 of U-NII-2C											
Left cheek	802.11n-HT20	124/5620	96.65%	1.035	0.529	0.05	18.76	14.50	0.375	0.205	21.4
Left tilted	802.11n-HT20	124/5620	96.65%	1.035	0.736	0.12	18.76	14.50	0.375	0.286	21.4
Right cheek	802.11n-HT20	124/5620	96.65%	1.035	0.335	0.17	18.76	14.50	0.375	0.130	21.4
Right tilted	802.11n-HT20	124/5620	96.65%	1.035	0.485	0.06	18.76	14.50	0.375	0.188	21.4
Left tilted	802.11n-HT20	116/5580	96.65%	1.035	0.885	0.07	18.73	14.50	0.378	0.346	21.4
Head Test Data ECI 6 of U-NII-3											
Left cheek	802.11n-HT20	157/5785	96.65%	1.035	0.589	-0.18	17.96	14.00	0.402	0.245	21.4
Left tilted	802.11n-HT20	157/5785	96.65%	1.035	0.898	0.03	17.96	14.00	0.402	0.373	21.4
Right cheek	802.11n-HT20	157/5785	96.65%	1.035	0.353	-0.03	17.96	14.00	0.402	0.147	21.4
Right tilted	802.11n-HT20	157/5785	96.65%	1.035	0.464	-0.13	17.96	14.00	0.402	0.193	21.4
Left tilted	802.11n-HT20	153/5765	96.65%	1.035	0.858	0.06	17.82	14.00	0.415	0.368	21.4
Body worn Test data ECI 1 of U-NII-2A (Separate 15mm)											
Front side	802.11n-HT20	56/5280	96.65%	1.035	0.140	-0.07	21.11	22.00	1.227	0.178	21.4
Back side	802.11n-HT20	56/5280	96.65%	1.035	0.516	0.03	21.11	22.00	1.227	0.655	21.4
Body worn Test data ECI 1 of U-NII-2C (Separate 15mm)											
Front side	802.11n-HT20	124/5620	96.65%	1.035	0.137	0.08	21.25	22.00	1.189	0.168	21.4
Back side	802.11n-HT20	124/5620	96.65%	1.035	0.636	0.09	21.25	22.00	1.189	0.782	21.4
Body worn Test data ECI 1 of U-NII-3 (Separate 15mm)											
Front side	802.11n-HT20	157/5785	96.65%	1.035	0.176	0.06	18.92	20.00	1.282	0.234	21.4
Back side	802.11n-HT20	157/5785	96.65%	1.035	0.555	-0.02	18.92	20.00	1.282	0.736	21.4
Body worn Test data ECI 2 of U-NII-2C (Separate 15mm)											
Front side	802.11n-HT20	124/5620	96.65%	1.035	0.137	0.08	21.25	18.00	0.473	0.067	21.4
Back side	802.11n-HT20	124/5620	96.65%	1.035	0.636	0.09	21.25	18.00	0.473	0.311	21.4
Body worn Test data ECI 2 of U-NII-3 (Separate 15mm)											
Front side	802.11n-HT20	157/5785	96.65%	1.035	0.176	0.06	18.92	19.00	1.019	0.185	21.4
Back side	802.11n-HT20	157/5785	96.65%	1.035	0.555	-0.02	18.92	19.00	1.019	0.585	21.4
Hotspot Test data ECI 3 of U-NII-1 (Separate 10mm)											
Front side	802.11n-HT20	44/5220	96.65%	1.035	0.081	0.06	16.71	17.50	1.199	0.101	21.4
Back side	802.11n-HT20	44/5220	96.65%	1.035	0.319	-0.03	16.71	17.50	1.199	0.396	21.4
Right side	802.11n-HT20	44/5220	96.65%	1.035	0.246	-0.07	16.71	17.50	1.199	0.305	21.4
Top side	802.11n-HT20	44/5220	96.65%	1.035	0.291	0.01	16.71	17.50	1.199	0.361	21.4
Hotspot Test data ECI 3 of U-NII-3 (Separate 10mm)											
Front side	802.11n-HT20	157/5785	96.65%	1.035	0.102	-0.08	14.40	15.50	1.288	0.136	21.4
Back side	802.11n-HT20	157/5785	96.65%	1.035	0.226	-0.05	14.40	15.50	1.288	0.301	21.4
Right side	802.11n-HT20	157/5785	96.65%	1.035	0.139	0.01	14.40	15.50	1.288	0.185	21.4
Top side	802.11n-HT20	157/5785	96.65%	1.035	0.218	0.07	14.40	15.50	1.288	0.291	21.4
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)



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factor											
Product specific 10g SAR Test data ECI 1 of U-NII-2A (Separate 0mm)											
Front side	802.11n-HT20	56/5280	96.65%	1.035	0.329	-0.01	21.11	22.00	1.227	0.418	21.4
Back side	802.11n-HT20	56/5280	96.65%	1.035	0.811	-0.18	21.11	22.00	1.227	1.030	21.4
Right side	802.11n-HT20	56/5280	96.65%	1.035	0.895	0.14	21.11	22.00	1.227	1.137	21.4
Top side	802.11n-HT20	56/5280	96.65%	1.035	1.700	-0.02	21.11	22.00	1.227	2.159	21.4
Top side	802.11n-HT20	64/5320	96.65%	1.035	1.930	0.05	21.09	22.00	1.233	2.462	21.4
Product specific 10g SAR Test data ECI 1 of U-NII-2C (Separate 0mm)											
Front side	802.11n-HT20	124/5620	96.65%	1.035	0.543	0.06	21.25	22.00	1.189	0.668	21.4
Back side	802.11n-HT20	124/5620	96.65%	1.035	0.875	0.02	21.25	22.00	1.189	1.076	21.4
Right side	802.11n-HT20	124/5620	96.65%	1.035	1.040	0.07	21.25	22.00	1.189	1.279	21.4
Top side	802.11n-HT20	124/5620	96.65%	1.035	2.030	0.05	21.25	22.00	1.189	2.496	21.4
Top side	802.11n-HT20	100/5500	96.65%	1.035	2.350	0.03	21.23	22.00	1.194	2.903	21.4
Top side-Repeated	802.11n-HT20	100/5500	96.65%	1.035	2.310	0.13	21.23	22.00	1.194	2.854	21.4
Product specific 10g SAR Test data ECI 2 of U-NII-2A (Separate 0mm)											
Front side	802.11n-HT20	56/5280	96.65%	1.035	0.329	-0.01	21.11	18.00	0.489	0.166	21.4
Back side	802.11n-HT20	56/5280	96.65%	1.035	0.811	-0.18	21.11	18.00	0.489	0.410	21.4
Right side	802.11n-HT20	56/5280	96.65%	1.035	0.895	0.14	21.11	18.00	0.489	0.453	21.4
Top side	802.11n-HT20	56/5280	96.65%	1.035	1.700	-0.02	21.11	18.00	0.489	0.860	21.4
Top side	802.11n-HT20	64/5320	96.65%	1.035	1.930	0.05	21.09	18.00	0.491	0.980	21.4
Product specific 10g SAR Test data ECI 2 of U-NII-2C (Separate 0mm)											
Front side	802.11n-HT20	124/5620	96.65%	1.035	0.543	0.06	21.25	18.00	0.473	0.266	21.4
Back side	802.11n-HT20	124/5620	96.65%	1.035	0.875	0.02	21.25	18.00	0.473	0.428	21.4
Right side	802.11n-HT20	124/5620	96.65%	1.035	1.040	0.07	21.25	18.00	0.473	0.509	21.4
Top side	802.11n-HT20	124/5620	96.65%	1.035	2.030	0.05	21.25	18.00	0.473	0.994	21.4
Top side	802.11n-HT20	100/5500	96.65%	1.035	2.350	0.03	21.23	18.00	0.475	1.156	21.4
Top side-Repeated	802.11n-HT20	100/5500	96.65%	1.035	2.310	0.13	21.23	18.00	0.475	1.136	21.4

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	56/5280	0.952	0.932	1.021	N/A	N/A
Top side	100/5500	2.350	2.300	1.022	N/A	N/A
Back side	157/5785	0.968	0.946	1.023	N/A	N/A
Left tilted	64/5320	0.942	0.922	1.022	N/A	N/A
Top side	100/5500	2.350	2.310	1.017	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 5) 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. The repeated measurement results must be clearly identified in the SAR report.

Table 37: SAR of WIFI 5G for Head, Body and Product specific 10g SAR.

Note:

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



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8.2.28 SAR Result of BT

Ant7 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data ECI 4											
Left cheek	DH5	39/2441	76.92%	1.300	0.070	0.04	6.54	7.50	1.247	0.113	22.1
Left tilted	DH5	39/2441	76.92%	1.300	0.059	0.06	6.54	7.50	1.247	0.096	22.1
Right cheek	DH5	39/2441	76.92%	1.300	0.035	0.15	6.54	7.50	1.247	0.056	22.1
Right tilted	DH5	39/2441	76.92%	1.300	0.032	0.01	6.54	7.50	1.247	0.053	22.1
Body worn Test data ECI 1 (Separate 15mm)											
Front side	DH5	39/2441	76.92%	1.300	0.009	0.16	6.54	7.50	1.247	0.015	22.1
Back side	DH5	39/2441	76.92%	1.300	0.011	0.09	6.54	7.50	1.247	0.018	22.1
Hotspot Test data ECI 3 (Separate 10mm)											
Front side	DH5	39/2441	76.92%	1.300	0.014	0.09	6.54	7.50	1.247	0.022	22.1
Back side	DH5	39/2441	76.92%	1.300	0.014	0.09	6.54	7.50	1.247	0.023	22.1
Right side	DH5	39/2441	76.92%	1.300	0.013	0.09	6.54	7.50	1.247	0.021	22.1
Top side	DH5	39/2441	76.92%	1.300	0.012	0.03	6.54	7.50	1.247	0.019	22.1

Table 38: SAR of BT for Head and Body.



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

- **Simultaneous Transmission Possibilities**

No.	Simultaneous Tx Combination	Head	Body-worn	Hotspot	Product Specific 10-g (0mm)
1	WWAN + WLAN 2.4GHz (Ant 7)	Yes	Yes	Yes	No
2	WWAN + WLAN 2.4GHz MIMO	Yes	Yes	Yes	No
3	WWAN + WLAN 6E (Ant 7)	Yes	Yes	Yes	No
4	WWAN + WLAN 6E MIMO	Yes	Yes	Yes	No
5	WWAN + WLAN 2.4GHz (Ant 9) + BT	Yes	Yes	Yes	No
6	WWAN + WLAN 5GHz (Ant 7) + BT	Yes	Yes	Yes	No
7	WWAN + WLAN 5GHz (Ant 9) + BT	Yes	Yes	Yes	No
8	WWAN + WLAN 5GHz MIMO + BT	Yes	Yes	Yes	No
9	WWAN + WLAN 6E (Ant 9) + BT	Yes	Yes	Yes	No
10	WWAN + WLAN 5GHz (Ant 7)	No	No	No	Yes
11	WWAN + WLAN 5GHz (Ant 9)	No	No	No	Yes
12	WWAN + WLAN 5GHz MIMO	No	No	No	Yes
13	WWAN + WLAN 6E (Ant 9)	No	No	No	Yes

Note:

- 1) The device does not support DTM function.
- 2) The WIFI 6E test data can be referred to WIFI 6E SAR test report (Report NO.: SEWM2308000314RG10).



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8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant1	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
GSM850	Left cheek	0.280	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.622	0.631	0.642	0.530	0.624	0.654	0.647	0.657	0.512
	Left tilted	0.140	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.418	0.435	0.196	0.292	0.330	0.611	0.440	0.612	0.331
	Right cheek	0.346	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.506	0.512	0.390	0.436	0.484	0.549	0.510	0.549	0.461
	Right tilted	0.202	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.357	0.353	0.258	0.318	0.307	0.440	0.356	0.448	0.285
WCDMA B5	Left cheek	0.373	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.715	0.724	0.735	0.623	0.717	0.747	0.740	0.750	0.605
	Left tilted	0.207	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.485	0.502	0.263	0.359	0.397	0.678	0.507	0.679	0.398
	Right cheek	0.466	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.626	0.632	0.510	0.556	0.604	0.669	0.630	0.669	0.581
	Right tilted	0.237	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.392	0.388	0.293	0.353	0.342	0.475	0.391	0.483	0.320
LTE B12	Left cheek	0.249	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.591	0.600	0.611	0.499	0.593	0.623	0.616	0.626	0.481
	Left tilted	0.131	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.409	0.426	0.187	0.283	0.321	0.602	0.431	0.603	0.322
	Right cheek	0.299	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.459	0.465	0.343	0.389	0.437	0.502	0.463	0.502	0.414
	Right tilted	0.144	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.299	0.295	0.200	0.260	0.249	0.382	0.298	0.390	0.227
LTE B14	Left cheek	0.283	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.625	0.634	0.645	0.533	0.627	0.657	0.650	0.660	0.515
	Left tilted	0.139	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.417	0.434	0.195	0.291	0.329	0.610	0.439	0.611	0.330
	Right cheek	0.338	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.498	0.504	0.382	0.428	0.476	0.541	0.502	0.541	0.453
	Right tilted	0.148	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.303	0.299	0.204	0.264	0.253	0.386	0.302	0.394	0.231
LTE B26	Left cheek	0.308	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.650	0.659	0.670	0.558	0.652	0.682	0.675	0.685	0.540
	Left tilted	0.160	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.438	0.455	0.216	0.312	0.350	0.631	0.460	0.632	0.351
	Right cheek	0.360	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.520	0.526	0.404	0.450	0.498	0.563	0.524	0.563	0.475
	Right tilted	0.196	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.351	0.347	0.252	0.312	0.301	0.434	0.350	0.442	0.279
LTE B71	Left cheek	0.231	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.573	0.582	0.593	0.481	0.575	0.605	0.598	0.608	0.463
	Left tilted	0.111	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.389	0.406	0.167	0.263	0.301	0.582	0.411	0.583	0.302
	Right cheek	0.291	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.451	0.457	0.335	0.381	0.429	0.494	0.455	0.494	0.406
	Right tilted	0.128	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.283	0.279	0.184	0.244	0.233	0.366	0.282	0.374	0.211
N5	Left cheek	0.362	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.704	0.713	0.724	0.612	0.706	0.736	0.729	0.739	0.594
	Left tilted	0.181	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.459	0.476	0.237	0.333	0.371	0.652	0.481	0.653	0.372
	Right cheek	0.415	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.575	0.581	0.459	0.505	0.553	0.618	0.579	0.618	0.530
	Right tilted	0.226	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.381	0.377	0.282	0.342	0.331	0.464	0.380	0.472	0.309
N26	Left cheek	0.361	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.703	0.712	0.723	0.611	0.705	0.735	0.728	0.738	0.593
	Left tilted	0.177	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.455	0.472	0.233	0.329	0.367	0.648	0.477	0.649	0.368
	Right cheek	0.387	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.547	0.553	0.431	0.477	0.525	0.590	0.551	0.590	0.502
	Right tilted	0.209	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.364	0.360	0.265	0.325	0.314	0.447	0.363	0.455	0.292
N41	Left cheek	0.054	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.396	0.405	0.416	0.304	0.398	0.428	0.421	0.431	0.286
	Left tilted	0.038	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.316	0.333	0.094	0.190	0.228	0.509	0.338	0.510	0.229
	Right cheek	0.001	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.161	0.167	0.045	0.091	0.139	0.204	0.165	0.204	0.116
	Right tilted	0.009	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.164	0.160	0.065	0.125	0.114	0.247	0.163	0.255	0.092
N71	Left cheek	0.226	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.568	0.577	0.588	0.476	0.570	0.600	0.593	0.603	0.458
	Left tilted	0.106	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.384	0.401	0.162	0.258	0.296	0.577	0.406	0.578	0.297
	Right cheek	0.292	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.452	0.458	0.336	0.382	0.430	0.495	0.456	0.495	0.407
	Right tilted	0.117	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.272	0.268	0.173	0.233	0.222	0.355	0.271	0.363	0.200
ENDC LTE B30	Left cheek	0.003	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.345	0.354	0.365	0.253	0.347	0.377	0.370	0.380	0.235
	Left tilted	0.001	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.279	0.296	0.057	0.153	0.191	0.472	0.301	0.473	0.192
	Right cheek	0.004	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.164	0.170	0.048	0.094	0.142	0.207	0.168	0.207	0.119
	Right tilted	0.001	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.156	0.152	0.057	0.117	0.106	0.239	0.155	0.247	0.084



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Test position	SARmax (W/kg)											Summed SAR									
	Main Ant2	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
GSM1900	Left cheek	0.249	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.591	0.600	0.611	0.499	0.593	0.623	0.616	0.626	0.481
	Left tilted	0.174	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.452	0.469	0.230	0.326	0.364	0.645	0.474	0.646	0.365
	Right cheek	0.143	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.303	0.309	0.187	0.233	0.281	0.346	0.307	0.346	0.258
	Right tilted	0.115	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.270	0.266	0.171	0.231	0.220	0.353	0.269	0.361	0.198
WCDMA B2	Left cheek	0.365	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.707	0.716	0.727	0.615	0.709	0.739	0.732	0.742	0.597
	Left tilted	0.215	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.493	0.510	0.271	0.367	0.405	0.686	0.515	0.687	0.406
	Right cheek	0.211	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.371	0.377	0.255	0.301	0.349	0.414	0.375	0.414	0.326
	Right tilted	0.177	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.332	0.328	0.233	0.293	0.282	0.415	0.331	0.423	0.260
WCDMA B4	Left cheek	0.336	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.678	0.687	0.698	0.586	0.680	0.710	0.703	0.713	0.568
	Left tilted	0.253	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.531	0.548	0.309	0.405	0.443	0.724	0.553	0.725	0.444
	Right cheek	0.232	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.392	0.398	0.276	0.322	0.370	0.435	0.396	0.435	0.347
	Right tilted	0.279	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.434	0.430	0.335	0.395	0.384	0.517	0.433	0.525	0.362
LTE B2	Left cheek	0.424	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.766	0.775	0.786	0.674	0.768	0.798	0.791	0.801	0.656
	Left tilted	0.271	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.549	0.566	0.327	0.423	0.461	0.742	0.571	0.743	0.462
	Right cheek	0.239	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.399	0.405	0.283	0.329	0.377	0.442	0.403	0.442	0.354
	Right tilted	0.183	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.338	0.334	0.239	0.299	0.288	0.421	0.337	0.429	0.266
LTE B66	Left cheek	0.312	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.654	0.663	0.674	0.562	0.656	0.686	0.679	0.689	0.544
	Left tilted	0.231	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.509	0.526	0.287	0.383	0.421	0.702	0.531	0.703	0.422
	Right cheek	0.199	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.359	0.365	0.243	0.289	0.337	0.402	0.363	0.402	0.314
	Right tilted	0.267	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.422	0.418	0.323	0.383	0.372	0.505	0.421	0.513	0.350
N2	Left cheek	0.387	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.729	0.738	0.749	0.637	0.731	0.761	0.754	0.764	0.619
	Left tilted	0.209	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.487	0.504	0.265	0.361	0.399	0.680	0.509	0.681	0.400
	Right cheek	0.237	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.397	0.403	0.281	0.327	0.375	0.440	0.401	0.440	0.352
	Right tilted	0.183	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.338	0.334	0.239	0.299	0.288	0.421	0.337	0.429	0.266
N25	Left cheek	0.381	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.723	0.732	0.743	0.631	0.725	0.755	0.748	0.758	0.613
	Left tilted	0.235	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.513	0.530	0.291	0.387	0.425	0.706	0.535	0.707	0.426
	Right cheek	0.253	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.413	0.419	0.297	0.343	0.391	0.456	0.417	0.456	0.368
	Right tilted	0.173	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.328	0.324	0.229	0.289	0.278	0.411	0.327	0.419	0.256
N66	Left cheek	0.315	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.657	0.666	0.677	0.565	0.659	0.689	0.682	0.692	0.547
	Left tilted	0.260	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.538	0.555	0.316	0.412	0.450	0.731	0.560	0.732	0.451
	Right cheek	0.252	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.412	0.418	0.296	0.342	0.390	0.455	0.416	0.455	0.367
	Right tilted	0.273	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.428	0.424	0.329	0.389	0.378	0.511	0.427	0.519	0.356
N70	Left cheek	0.311	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.653	0.662	0.673	0.561	0.655	0.685	0.678	0.688	0.543
	Left tilted	0.244	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.522	0.539	0.300	0.396	0.434	0.715	0.544	0.716	0.435
	Right cheek	0.246	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.406	0.412	0.290	0.336	0.384	0.449	0.410	0.449	0.361
	Right tilted	0.275	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.430	0.426	0.331	0.391	0.380	0.513	0.429	0.521	0.358
N77	Left cheek	0.095	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.437	0.446	0.457	0.345	0.439	0.469	0.462	0.472	0.327
	Left tilted	0.073	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.351	0.368	0.129	0.225	0.263	0.544	0.373	0.545	0.264
	Right cheek	0.061	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.221	0.227	0.105	0.151	0.199	0.264	0.225	0.264	0.176
	Right tilted	0.065	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.220	0.216	0.121	0.181	0.170	0.303	0.219	0.311	0.148



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Test position	SARmax (W/kg)											Summed SAR									
	Main Ant3	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
LTE B2	Left cheek	0.564	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.906	0.915	0.926	0.814	0.908	0.938	0.931	0.941	0.796
	Left tilted	0.633	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.911	0.928	0.689	0.785	0.823	1.104	0.933	1.105	0.824
	Right cheek	0.841	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.001	1.007	0.885	0.931	0.979	1.044	1.005	1.044	0.956
	Right tilted	1.009	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.164	1.160	1.065	1.125	1.114	1.247	1.163	1.255	1.092
LTE B30	Left cheek	0.432	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.774	0.783	0.794	0.682	0.776	0.806	0.799	0.809	0.664
	Left tilted	0.593	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.871	0.888	0.649	0.745	0.783	1.064	0.893	1.065	0.784
	Right cheek	0.790	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.950	0.956	0.834	0.880	0.928	0.993	0.954	0.993	0.905
	Right tilted	0.907	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.062	1.058	0.963	1.023	1.012	1.145	1.061	1.153	0.990
LTE B66	Left cheek	0.385	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.727	0.736	0.747	0.635	0.729	0.759	0.752	0.762	0.617
	Left tilted	0.412	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.690	0.707	0.468	0.564	0.602	0.883	0.712	0.884	0.603
	Right cheek	0.519	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.679	0.685	0.563	0.609	0.657	0.722	0.683	0.722	0.634
	Right tilted	0.610	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.765	0.761	0.666	0.726	0.715	0.848	0.764	0.856	0.693
N2	Left cheek	0.689	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.031	1.040	1.051	0.939	1.033	1.063	1.056	1.066	0.921
	Left tilted	0.778	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.056	1.073	0.834	0.930	0.968	1.249	1.078	1.250	0.969
	Right cheek	0.964	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.124	1.130	1.008	1.054	1.102	1.167	1.128	1.167	1.079
	Right tilted	1.182	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.337	1.333	1.238	1.298	1.287	1.420	1.336	1.428	1.265
N25	Left cheek	0.713	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.055	1.064	1.075	0.963	1.057	1.087	1.080	1.090	0.945
	Left tilted	0.796	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.074	1.091	0.852	0.948	0.986	1.267	1.096	1.268	0.987
	Right cheek	1.212	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.372	1.378	1.256	1.302	1.350	1.415	1.376	1.415	1.327
	Right tilted	1.234	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.389	1.385	1.290	1.350	1.339	1.472	1.388	1.480	1.317
N30	Left cheek	0.521	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.863	0.872	0.883	0.771	0.865	0.895	0.888	0.898	0.753
	Left tilted	0.663	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.941	0.958	0.719	0.815	0.853	1.134	0.963	1.135	0.854
	Right cheek	0.981	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.141	1.147	1.025	1.071	1.119	1.184	1.145	1.184	1.096
	Right tilted	1.052	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.207	1.203	1.108	1.168	1.157	1.290	1.206	1.298	1.135
N41	Left cheek	0.314	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.656	0.665	0.676	0.564	0.658	0.688	0.681	0.691	0.546
	Left tilted	0.445	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.723	0.740	0.501	0.597	0.635	0.916	0.745	0.917	0.636
	Right cheek	0.901	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.061	1.067	0.945	0.991	1.039	1.104	1.065	1.104	1.016
	Right tilted	1.003	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.158	1.154	1.059	1.119	1.108	1.241	1.157	1.249	1.086
N66	Left cheek	0.675	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.017	1.026	1.037	0.925	1.019	1.049	1.042	1.052	0.907
	Left tilted	0.726	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.004	1.021	0.782	0.878	0.916	1.197	1.026	1.198	0.917
	Right cheek	0.960	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.120	1.126	1.004	1.050	1.098	1.163	1.124	1.163	1.075
	Right tilted	1.189	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.344	1.340	1.245	1.305	1.294	1.427	1.343	1.435	1.272
N70	Left cheek	0.894	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.236	1.245	1.256	1.144	1.238	1.268	1.261	1.271	1.126
	Left tilted	0.905	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.183	1.200	0.961	1.057	1.095	1.376	1.205	1.377	1.096
	Right cheek	1.054	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.214	1.220	1.098	1.144	1.192	1.257	1.218	1.257	1.169
	Right tilted	1.197	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.352	1.348	1.253	1.313	1.302	1.435	1.351	1.443	1.280
ENDC LTE B2	Left cheek	0.560	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.902	0.911	0.922	0.810	0.904	0.934	0.927	0.937	0.792
	Left tilted	0.636	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.914	0.931	0.692	0.788	0.826	1.107	0.936	1.108	0.827
	Right cheek	0.799	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.959	0.965	0.843	0.889	0.937	1.002	0.963	1.002	0.914
	Right tilted	1.069	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.224	1.220	1.125	1.185	1.174	1.307	1.223	1.315	1.152
ENDC LTE B5	Left cheek	0.324	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.666	0.675	0.686	0.574	0.668	0.698	0.691	0.701	0.556
	Left tilted	0.341	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.619	0.636	0.397	0.493	0.531	0.812	0.641	0.813	0.532
	Right cheek	0.543	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.703	0.709	0.587	0.633	0.681	0.746	0.707	0.746	0.658
	Right tilted	0.392	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.547	0.543	0.448	0.508	0.497	0.630	0.546	0.638	0.475
ENDC LTE B66	Left cheek	0.529	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.871	0.880	0.891	0.779	0.873	0.903	0.896	0.906	0.761
	Left tilted	0.571	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.849	0.866	0.627	0.723	0.761	1.042	0.871	1.043	0.762
	Right cheek	0.747	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.907	0.913	0.791	0.837	0.885	0.950	0.911	0.950	0.862
	Right tilted	0.961	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	1.116	1.112	1.017	1.077	1.066	1.199	1.115	1.207	1.044



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Test position	SARmax (W/kg)											Summed SAR									
	Main Ant4	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
N41	Left cheek	0.406	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.748	0.757	0.768	0.656	0.750	0.780	0.773	0.783	0.638
	Left tilted	0.151	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.429	0.446	0.207	0.303	0.341	0.622	0.451	0.623	0.342
	Right cheek	0.672	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.832	0.838	0.716	0.762	0.810	0.875	0.836	0.875	0.787
	Right tilted	0.202	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.357	0.353	0.258	0.318	0.307	0.440	0.356	0.448	0.285
N77	Left cheek	0.073	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.415	0.424	0.435	0.323	0.417	0.447	0.440	0.450	0.305
	Left tilted	0.075	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.353	0.370	0.131	0.227	0.265	0.546	0.375	0.547	0.266
	Right cheek	0.122	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.282	0.288	0.166	0.212	0.260	0.325	0.286	0.325	0.237
	Right tilted	0.034	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.189	0.185	0.090	0.150	0.139	0.272	0.188	0.280	0.117

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant5	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
LTE B48	Left cheek	0.166	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.508	0.517	0.528	0.416	0.510	1.540	0.533	0.543	0.398
	Left tilted	0.132	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.410	0.427	0.188	0.284	0.322	0.603	0.432	0.604	0.323
	Right cheek	0.681	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.841	0.847	0.725	0.771	0.819	0.884	0.845	0.884	0.796
	Right tilted	0.316	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.471	0.467	0.372	0.432	0.421	0.554	0.470	0.562	0.399
N48	Left cheek	0.243	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.585	0.594	0.605	0.493	0.587	0.617	0.610	0.620	0.475
	Left tilted	0.143	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.421	0.438	0.199	0.295	0.333	0.614	0.443	0.615	0.334
	Right cheek	0.847	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.007	1.013	0.891	0.937	0.985	1.050	1.011	1.050	0.962
	Right tilted	0.363	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.518	0.514	0.419	0.479	0.468	0.601	0.517	0.609	0.446
N77	Left cheek	0.277	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.619	0.628	0.639	0.527	0.621	0.651	0.644	0.654	0.509
	Left tilted	0.203	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.481	0.498	0.259	0.355	0.393	0.674	0.503	0.675	0.394
	Right cheek	1.135	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	1.295	1.301	1.179	1.225	1.273	1.338	1.299	1.338	1.250
	Right tilted	0.615	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.770	0.766	0.671	0.731	0.720	0.853	0.769	0.861	0.698

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant6	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
N41	Left cheek	0.187	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	0.529	0.538	0.549	0.437	0.531	0.561	0.554	0.564	0.419
	Left tilted	0.087	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	0.365	0.382	0.143	0.239	0.277	0.558	0.387	0.559	0.278
	Right cheek	0.049	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.209	0.215	0.093	0.139	0.187	0.252	0.213	0.252	0.164
	Right tilted	0.001	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.156	0.152	0.057	0.117	0.106	0.239	0.155	0.247	0.084
N77	Left cheek	1.113	0.342	0.231	0.351	0.261	0.254	0.264	0.362	0.119	0.250	0.113	1.455	1.464	1.475	1.363	1.457	1.487	1.480	1.490	1.345
	Left tilted	0.872	0.278	0.094	0.295	0.375	0.204	0.376	0.056	0.095	0.152	0.096	1.150	1.167	0.928	1.024	1.062	1.343	1.172	1.344	1.063
	Right cheek	0.438	0.160	0.082	0.166	0.147	0.108	0.147	0.044	0.059	0.090	0.056	0.598	0.604	0.482	0.528	0.576	0.641	0.602	0.641	0.553
	Right tilted	0.461	0.155	0.052	0.151	0.185	0.101	0.193	0.056	0.030	0.116	0.053	0.616	0.612	0.517	0.577	0.566	0.699	0.615	0.707	0.544



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Body-worn:

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant1	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
GSM850	Front side	0.255	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.453	0.398	0.280	0.287	0.340	0.550	0.382	0.455	0.289
	Back side	0.292	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.490	0.515	0.770	0.943	0.461	0.983	0.903	0.965	0.863
WCDMA B5	Front side	0.367	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.565	0.510	0.392	0.399	0.452	0.662	0.494	0.567	0.401
	Back side	0.390	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.588	0.613	0.868	1.041	0.559	1.081	1.001	1.063	0.961
LTE B12	Front side	0.376	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.574	0.519	0.401	0.408	0.461	0.671	0.503	0.576	0.410
	Back side	0.419	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.617	0.642	0.897	1.070	0.588	1.110	1.030	1.092	0.990
LTE B14	Front side	0.386	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.584	0.529	0.411	0.418	0.471	0.681	0.513	0.586	0.420
	Back side	0.359	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.557	0.582	0.837	1.010	0.528	1.050	0.970	1.032	0.930
LTE B26	Front side	0.302	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.500	0.445	0.327	0.334	0.387	0.597	0.429	0.502	0.336
	Back side	0.272	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.470	0.495	0.750	0.923	0.441	0.963	0.883	0.945	0.843
LTE B71	Front side	0.324	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.522	0.467	0.349	0.356	0.409	0.619	0.451	0.524	0.358
	Back side	0.355	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.553	0.578	0.833	1.006	0.524	1.046	0.966	1.028	0.926
N5	Front side	0.341	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.539	0.484	0.366	0.373	0.426	0.636	0.468	0.541	0.375
	Back side	0.352	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.550	0.575	0.830	1.003	0.521	1.043	0.963	1.025	0.923
N26	Front side	0.367	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.565	0.510	0.392	0.399	0.452	0.662	0.494	0.567	0.401
	Back side	0.358	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.556	0.581	0.836	1.009	0.527	1.049	0.969	1.031	0.929
N41	Front side	0.394	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.592	0.537	0.419	0.426	0.479	0.689	0.521	0.594	0.428
	Back side	0.480	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.678	0.703	0.958	1.131	0.649	1.171	1.091	1.153	1.051
N71	Front side	0.302	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.500	0.445	0.327	0.334	0.387	0.597	0.429	0.502	0.336
	Back side	0.374	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.572	0.597	0.852	1.025	0.543	1.065	0.985	1.047	0.945
ENDC LTE B30	Front side	0.249	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.447	0.392	0.274	0.281	0.334	0.544	0.376	0.449	0.283
	Back side	0.535	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.733	0.758	1.013	1.186	0.704	1.226	1.146	1.208	1.106

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant2	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
GSM1900	Front side	0.279	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.477	0.422	0.304	0.311	0.364	0.574	0.406	0.479	0.313
	Back side	0.345	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.543	0.568	0.823	0.996	0.514	1.036	0.956	1.018	0.916
WCDMA B2	Front side	0.354	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.552	0.497	0.379	0.386	0.439	0.649	0.481	0.554	0.388
	Back side	0.538	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.736	0.761	1.016	1.189	0.707	1.229	1.149	1.211	1.109
WCDMA B4	Front side	0.354	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.552	0.497	0.379	0.386	0.439	0.649	0.481	0.554	0.388
	Back side	0.331	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.529	0.554	0.809	0.982	0.500	1.022	0.942	1.004	0.902
LTE B2	Front side	0.426	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.624	0.569	0.451	0.458	0.511	0.721	0.553	0.626	0.460
	Back side	0.503	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.701	0.726	0.981	1.154	0.672	1.194	1.114	1.176	1.074
LTE B66	Front side	0.348	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.546	0.491	0.373	0.380	0.433	0.643	0.475	0.548	0.382
	Back side	0.396	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.594	0.619	0.874	1.047	0.565	1.087	1.007	1.069	0.967
N2	Front side	0.417	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.615	0.560	0.442	0.449	0.502	0.712	0.544	0.617	0.451
	Back side	0.620	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.818	0.843	1.098	1.271	0.789	1.311	1.231	1.293	1.191
N25	Front side	0.389	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.587	0.532	0.414	0.421	0.474	0.684	0.516	0.589	0.423
	Back side	0.531	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.729	0.754	1.009	1.182	0.700	1.222	1.142	1.204	1.102
N66	Front side	0.403	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.601	0.546	0.428	0.435	0.488	0.698	0.530	0.603	0.437
	Back side	0.410	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.608	0.633	0.888	1.061	0.579	1.101	1.021	1.083	0.981
N70	Front side	0.399	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.597	0.542	0.424	0.431	0.484	0.694	0.526	0.599	0.433
	Back side	0.420	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.618	0.643	0.898	1.071	0.589	1.111	1.031	1.093	0.991
N77	Front side	0.169	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.367	0.312	0.194	0.201	0.254	0.464	0.296	0.369	0.203
	Back side	0.247	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.445	0.470	0.725	0.898	0.416	0.938	0.858	0.920	0.818



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Test position	SARmax (W/kg)											Summed SAR									
	Main Ant3	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
LTE B2	Front side	0.310	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.508	0.453	0.335	0.342	0.395	0.605	0.437	0.510	0.344
	Back side	0.451	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.649	0.674	0.929	1.102	0.620	1.142	1.062	1.124	1.022
LTE B30	Front side	0.414	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.612	0.557	0.439	0.446	0.499	0.709	0.541	0.614	0.448
	Back side	0.788	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.986	1.011	1.266	1.439	0.957	1.479	1.399	1.461	1.359
LTE B66	Front side	0.190	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.388	0.333	0.215	0.222	0.275	0.485	0.317	0.390	0.224
	Back side	0.255	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.453	0.478	0.733	0.906	0.424	0.946	0.866	0.928	0.826
N2	Front side	0.322	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.520	0.465	0.347	0.354	0.407	0.617	0.449	0.522	0.356
	Back side	0.502	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.700	0.725	0.980	1.153	0.671	1.193	1.113	1.175	1.073
N25	Front side	0.296	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.494	0.439	0.321	0.328	0.381	0.591	0.423	0.496	0.330
	Back side	0.408	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.606	0.631	0.886	1.059	0.577	1.099	1.019	1.081	0.979
N30	Front side	0.420	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.618	0.563	0.445	0.452	0.505	0.715	0.547	0.620	0.454
	Back side	0.771	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.969	0.994	1.249	1.422	0.940	1.462	1.382	1.444	1.342
N41	Front side	0.289	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.487	0.432	0.314	0.321	0.374	0.584	0.416	0.489	0.323
	Back side	0.740	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.938	0.963	1.218	1.391	0.909	1.431	1.351	1.413	1.311
N66	Front side	0.263	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.461	0.406	0.288	0.295	0.348	0.558	0.390	0.463	0.297
	Back side	0.293	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.491	0.516	0.771	0.944	0.462	0.984	0.904	0.966	0.864
N70	Front side	0.235	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.433	0.378	0.260	0.267	0.320	0.530	0.362	0.435	0.269
	Back side	0.315	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.513	0.538	0.793	0.966	0.484	1.006	0.926	0.988	0.886
ENDC LTE B2	Front side	0.382	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.580	0.525	0.407	0.414	0.467	0.677	0.509	0.582	0.416
	Back side	0.544	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.742	0.767	1.022	1.195	0.713	1.235	1.155	1.217	1.115
ENDC LTE B5	Front side	0.026	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.224	0.169	0.051	0.058	0.111	0.321	0.153	0.226	0.060
	Back side	0.138	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.336	0.361	0.616	0.789	0.307	0.829	0.749	0.811	0.709
ENDC LTE B66	Front side	0.295	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.493	0.438	0.320	0.327	0.380	0.590	0.422	0.495	0.329
	Back side	0.391	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.589	0.614	0.869	1.042	0.560	1.082	1.002	1.064	0.962

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant4	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
N41	Front side	0.118	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.316	0.261	0.143	0.150	0.203	0.413	0.245	0.318	0.152
	Back side	0.349	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.547	0.572	0.827	1.000	0.518	1.040	0.960	1.022	0.920
N77	Front side	0.062	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.260	0.205	0.087	0.094	0.147	0.357	0.189	0.262	0.096
	Back side	0.220	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.418	0.443	0.698	0.871	0.389	0.911	0.831	0.893	0.791

Test position	SARmax (W/kg)											Summed SAR									
	Main Ant5	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
LTE B48	Front side	0.371	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.569	0.514	0.396	0.403	0.456	0.666	0.498	0.571	0.405
	Back side	0.330	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.528	0.553	0.808	0.981	0.499	1.021	0.941	1.003	0.901
N48	Front side	0.273	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.471	0.416	0.298	0.305	0.358	0.568	0.400	0.473	0.307
	Back side	0.301	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.499	0.524	0.779	0.952	0.470	0.992	0.912	0.974	0.872
N77	Front side	0.464	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.662	0.607	0.489	0.496	0.549	0.759	0.591	0.664	0.498
	Back side	0.502	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.700	0.725	0.980	1.153	0.671	1.193	1.113	1.175	1.073



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Test position	SARmax (W/kg)											Summed SAR									
	Main Ant6	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT										
	1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
N41	Front side	0.001	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.199	0.144	0.026	0.033	0.086	0.296	0.128	0.201	0.035
	Back side	0.037	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.235	0.260	0.515	0.688	0.206	0.728	0.648	0.710	0.608
N77	Front side	0.237	0.198	0.070	0.143	0.280	0.112	0.185	0.025	0.019	0.032	0.015	0.435	0.380	0.262	0.269	0.322	0.532	0.364	0.437	0.271
	Back side	0.344	0.198	0.151	0.223	0.673	0.593	0.655	0.478	0.553	0.651	0.018	0.542	0.567	0.822	0.995	0.513	1.035	0.955	1.017	0.915



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Hotspot:

Test position	Main Ant1	SARmax (W/kg)											Summed SAR								
		WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT										
		1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
GSM850	Front side	0.558	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.904	0.783	0.567	0.569	0.720	0.718	0.707	0.716	0.600
	Back side	0.641	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.048	0.973	0.873	0.936	0.970	1.049	1.033	1.060	1.021
	Left side	0.228	/	/	/	/	/	/	/	/	/	/	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228
	Right side	0.409	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.821	0.737	0.418	0.497	0.636	0.724	0.712	0.735	0.536
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.428	/	/	/	/	/	/	/	/	/	/	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
WCDMA B5	Front side	0.451	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.797	0.676	0.460	0.462	0.613	0.611	0.600	0.609	0.493
	Back side	0.710	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.117	1.042	0.942	1.005	1.039	1.118	1.102	1.129	1.090
	Left side	0.351	/	/	/	/	/	/	/	/	/	/	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351	0.351
	Right side	0.567	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.979	0.895	0.576	0.655	0.794	0.882	0.870	0.893	0.694
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.486	/	/	/	/	/	/	/	/	/	/	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486
LTE B12	Front side	0.361	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.707	0.586	0.370	0.372	0.523	0.521	0.510	0.519	0.403
	Back side	0.428	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.835	0.760	0.660	0.723	0.757	0.836	0.820	0.847	0.808
	Left side	0.361	/	/	/	/	/	/	/	/	/	/	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361
	Right side	0.495	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.907	0.823	0.504	0.583	0.722	0.810	0.798	0.821	0.622
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.271	/	/	/	/	/	/	/	/	/	/	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271
LTE B14	Front side	0.350	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.696	0.575	0.359	0.361	0.512	0.510	0.499	0.508	0.392
	Back side	0.466	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.873	0.798	0.698	0.761	0.795	0.874	0.858	0.885	0.846
	Left side	0.262	/	/	/	/	/	/	/	/	/	/	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262
	Right side	0.464	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.876	0.792	0.473	0.552	0.691	0.779	0.767	0.790	0.591
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.421	/	/	/	/	/	/	/	/	/	/	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421	0.421
LTE B26	Front side	0.407	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.753	0.632	0.416	0.418	0.569	0.567	0.556	0.565	0.449
	Back side	0.556	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.963	0.888	0.788	0.851	0.885	0.964	0.948	0.975	0.936
	Left side	0.251	/	/	/	/	/	/	/	/	/	/	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251	0.251
	Right side	0.419	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.831	0.747	0.428	0.507	0.646	0.734	0.722	0.745	0.546
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.480	/	/	/	/	/	/	/	/	/	/	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
LTE B71	Front side	0.315	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.661	0.540	0.324	0.326	0.477	0.475	0.464	0.473	0.357
	Back side	0.377	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.784	0.709	0.609	0.672	0.706	0.785	0.769	0.796	0.757
	Left side	0.332	/	/	/	/	/	/	/	/	/	/	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
	Right side	0.567	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.979	0.895	0.576	0.655	0.794	0.882	0.870	0.893	0.694
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.217	/	/	/	/	/	/	/	/	/	/	0.217	0.217	0.217	0.217	0.217	0.217	0.217	0.217	0.217
N5	Front side	0.423	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.769	0.648	0.432	0.434	0.585	0.583	0.572	0.581	0.465
	Back side	0.660	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.067	0.992	0.892	0.955	0.989	1.068	1.052	1.079	1.040
	Left side	0.310	/	/	/	/	/	/	/	/	/	/	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310	0.310
	Right side	0.521	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.933	0.849	0.530	0.609	0.748	0.836	0.824	0.847	0.648
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.518	/	/	/	/	/	/	/	/	/	/	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518
N26	Front side	0.422	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.768	0.647	0.431	0.433	0.584	0.582	0.571	0.580	0.464
	Back side	0.703	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.110	1.035	0.935	0.998	1.032	1.111	1.095	1.122	1.083
	Left side	0.325	/	/	/	/	/	/	/	/	/	/	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325	0.325
	Right side	0.523	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.935	0.851	0.532	0.611	0.750	0.838	0.826	0.849	0.650
	Bottom side	0.518	/	/	/	/	/	/	/	/	/	/	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518	0.518



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	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.504	/	/	/	/	/	/	/	/	/	/	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504	0.504
N41	Front side	0.727	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.073	0.952	0.736	0.738	0.889	0.887	0.876	0.885	0.769
	Back side	1.015	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.422	1.347	1.247	1.310	1.344	1.423	1.407	1.434	1.395
	Left side	0.105	/	/	/	/	/	/	/	/	/	/	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
	Right side	0.276	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.688	0.604	0.285	0.364	0.503	0.591	0.579	0.602	0.403
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	1.224	/	/	/	/	/	/	/	/	/	/	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224
N71	Front side	0.309	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.655	0.534	0.318	0.320	0.471	0.469	0.458	0.467	0.351
	Back side	0.333	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.740	0.665	0.565	0.628	0.662	0.741	0.725	0.752	0.713
	Left side	0.312	/	/	/	/	/	/	/	/	/	/	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312	0.312
	Right side	0.536	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.948	0.864	0.545	0.624	0.763	0.851	0.839	0.862	0.663
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.229	/	/	/	/	/	/	/	/	/	/	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229
ENDC LTE B30	Front side	0.363	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.709	0.588	0.372	0.374	0.525	0.523	0.512	0.521	0.405
	Back side	0.778	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.185	1.110	1.010	1.073	1.107	1.186	1.170	1.197	1.158
	Left side	0.222	/	/	/	/	/	/	/	/	/	/	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
	Right side	0.146	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.558	0.474	0.155	0.234	0.373	0.461	0.449	0.472	0.273
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.835	/	/	/	/	/	/	/	/	/	/	0.835	0.835	0.835	0.835	0.835	0.835	0.835	0.835	0.835

Test position	N	SARmax (W/kg)											Summed SAR								
		Main Ant2	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 5G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
		1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
GSM1900	Front side	0.488	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.834	0.713	0.497	0.499	0.650	0.648	0.637	0.646	0.530
	Back side	0.586	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.993	0.918	0.818	0.881	0.915	0.994	0.978	1.005	0.966
	Left side	0.395	/	/	/	/	/	/	/	/	/	/	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.315	/	/	/	/	/	/	/	/	/	/	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315	0.315
WCDMA B2	Front side	0.682	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.028	0.907	0.691	0.693	0.844	0.842	0.831	0.840	0.724
	Back side	0.990	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.397	1.322	1.222	1.285	1.319	1.398	1.382	1.409	1.370
	Left side	0.773	/	/	/	/	/	/	/	/	/	/	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773	0.773
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.494	/	/	/	/	/	/	/	/	/	/	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494	0.494
WCDMA B4	Front side	0.592	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.938	0.817	0.601	0.603	0.754	0.752	0.741	0.750	0.634
	Back side	0.699	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.106	1.031	0.931	0.994	1.028	1.107	1.091	1.118	1.079
	Left side	0.547	/	/	/	/	/	/	/	/	/	/	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.434	/	/	/	/	/	/	/	/	/	/	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434
LTE B2	Front side	0.774	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.120	0.999	0.783	0.785	0.936	0.934	0.923	0.932	0.816
	Back side	1.073	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.480	1.405	1.305	1.368	1.402	1.481	1.465	1.492	1.453
	Left side	0.912	/	/	/	/	/	/	/	/	/	/	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.535	/	/	/	/	/	/	/	/	/	/	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
LTE B66	Front side	0.589	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.935	0.814	0.598	0.600	0.751	0.749	0.738	0.747	0.631
	Back side	0.707	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.114	1.039	0.939	1.002	1.036	1.115	1.099	1.126	1.087
	Left side	0.646	/	/	/	/	/	/	/	/	/	/	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646



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	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.440	/	/	/	/	/	/	/	/	/	/	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440	0.440
N2	Front side	0.768	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.114	0.993	0.777	0.779	0.930	0.928	0.917	0.926	0.810
	Back side	0.959	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.366	1.291	1.191	1.254	1.288	1.367	1.351	1.378	1.339
	Left side	0.791	/	/	/	/	/	/	/	/	/	/	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791	0.791
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.535	/	/	/	/	/	/	/	/	/	/	/	0.535	0.535	0.535	0.535	0.535	0.535	0.535	0.535
N25	Front side	0.727	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	1.073	0.952	0.736	0.738	0.889	0.887	0.876	0.885	0.769
	Back side	0.948	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.355	1.280	1.180	1.243	1.277	1.356	1.340	1.367	1.328
	Left side	0.645	/	/	/	/	/	/	/	/	/	/	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645	0.645
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.468	/	/	/	/	/	/	/	/	/	/	/	0.468	0.468	0.468	0.468	0.468	0.468	0.468	0.468
N66	Front side	0.652	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.998	0.877	0.661	0.663	0.814	0.812	0.801	0.810	0.694
	Back side	0.761	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.168	1.093	0.993	1.056	1.090	1.169	1.153	1.180	1.141
	Left side	0.745	/	/	/	/	/	/	/	/	/	/	0.745	0.745	0.745	0.745	0.745	0.745	0.745	0.745	0.745
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.430	/	/	/	/	/	/	/	/	/	/	/	0.430	0.430	0.430	0.430	0.430	0.430	0.430	0.430
N70	Front side	0.644	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.990	0.869	0.653	0.655	0.806	0.804	0.793	0.802	0.686
	Back side	0.683	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.090	1.015	0.915	0.978	1.012	1.091	1.075	1.102	1.063
	Left side	0.681	/	/	/	/	/	/	/	/	/	/	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.456	/	/	/	/	/	/	/	/	/	/	/	0.456	0.456	0.456	0.456	0.456	0.456	0.456	0.456
N77	Front side	0.355	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.701	0.580	0.364	0.366	0.517	0.515	0.504	0.513	0.397
	Back side	0.405	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.812	0.737	0.637	0.700	0.734	0.813	0.797	0.824	0.785
	Left side	0.395	/	/	/	/	/	/	/	/	/	/	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395	0.395
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	0.472	/	/	/	/	/	/	/	/	/	/	/	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472

Test position	N	SARmax (W/kg)											Summed SAR								
		Main Ant3	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
		1	2	3	4	5	6	7	8	9	10	11	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11
LTE B2	Front side	0.513	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.859	0.738	0.522	0.524	0.675	0.673	0.662	0.671	0.555
	Back side	0.793	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.200	1.125	1.025	1.088	1.122	1.201	1.185	1.212	1.173
	Left side	0.222	/	/	/	/	/	/	/	/	/	/	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222
	Right side	0.091	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.503	0.419	0.100	0.179	0.318	0.406	0.394	0.417	0.218
	Top side	0.917	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.268	1.068	0.931	0.947	1.002	1.296	1.104	1.297	0.936
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B30	Front side	0.389	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.735	0.614	0.398	0.400	0.551	0.549	0.538	0.547	0.431
	Back side	0.761	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.168	1.093	0.993	1.056	1.090	1.169	1.153	1.180	1.141
	Left side	0.062	/	/	/	/	/	/	/	/	/	/	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
	Right side	0.019	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.431	0.347	0.028	0.107	0.246	0.334	0.322	0.345	0.146
	Top side	0.872	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.223	1.023	0.886	0.902	0.957	1.251	1.059	1.252	0.891
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
LTE B66	Front side	0.362	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.708	0.587	0.371	0.373	0.524	0.522	0.511	0.520	0.404
	Back side	0.484	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.891	0.816	0.716	0.779	0.813	0.892	0.876	0.903	0.864
	Left side	0.134	/	/	/	/	/	/	/	/	/	/	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
	Right side	0.117	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.529	0.445	0.126	0.205	0.344	0.432	0.420	0.443	0.244



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	Top side	0.489	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.840	0.640	0.503	0.519	0.574	0.868	0.676	0.869	0.508
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N2	Front side	0.602	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.948	0.827	0.611	0.613	0.764	0.762	0.751	0.760	0.644
	Back side	0.899	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.306	1.231	1.131	1.194	1.228	1.307	1.291	1.318	1.279
	Left side	0.273	/	/	/	/	/	/	/	/	/	/	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273	0.273
	Right side	0.131	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.543	0.459	0.140	0.219	0.358	0.446	0.434	0.457	0.258
	Top side	0.862	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.213	1.013	0.876	0.892	0.947	1.241	1.049	1.242	0.881
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N25	Front side	0.540	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.886	0.765	0.549	0.551	0.702	0.700	0.689	0.698	0.582
	Back side	0.769	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.176	1.101	1.001	1.064	1.098	1.177	1.161	1.188	1.149
	Left side	0.243	/	/	/	/	/	/	/	/	/	/	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243	0.243
	Right side	0.094	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.506	0.422	0.103	0.182	0.321	0.409	0.397	0.420	0.221
	Top side	0.892	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.243	1.043	0.906	0.922	0.977	1.271	1.079	1.272	0.911
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N30	Front side	0.377	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.723	0.602	0.386	0.388	0.539	0.537	0.526	0.535	0.419
	Back side	0.868	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.275	1.200	1.100	1.163	1.197	1.276	1.260	1.287	1.248
	Left side	0.056	/	/	/	/	/	/	/	/	/	/	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
	Right side	0.017	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.429	0.345	0.026	0.105	0.244	0.332	0.320	0.343	0.144
	Top side	0.921	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.272	1.072	0.935	0.951	1.006	1.300	1.108	1.301	0.940
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.321	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.667	0.546	0.330	0.332	0.483	0.481	0.470	0.479	0.363
	Back side	0.829	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.236	1.161	1.061	1.124	1.158	1.237	1.221	1.248	1.209
	Left side	0.142	/	/	/	/	/	/	/	/	/	/	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142
	Right side	0.001	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.413	0.329	0.010	0.089	0.228	0.316	0.304	0.327	0.128
	Top side	1.114	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.465	1.265	1.128	1.144	1.199	1.493	1.301	1.494	1.133
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.506	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.852	0.731	0.515	0.517	0.668	0.666	0.655	0.664	0.548
	Back side	0.608	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.015	0.940	0.840	0.903	0.937	1.016	1.000	1.027	0.988
	Left side	0.162	/	/	/	/	/	/	/	/	/	/	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162
	Right side	0.130	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.542	0.458	0.139	0.218	0.357	0.445	0.433	0.456	0.257
	Top side	0.522	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.873	0.673	0.536	0.552	0.607	0.901	0.709	0.902	0.541
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N70	Front side	0.447	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.793	0.672	0.456	0.458	0.609	0.607	0.596	0.605	0.489
	Back side	0.610	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.017	0.942	0.842	0.905	0.939	1.018	1.002	1.029	0.990
	Left side	0.211	/	/	/	/	/	/	/	/	/	/	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211	0.211
	Right side	0.104	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.516	0.432	0.113	0.192	0.331	0.419	0.407	0.430	0.231
	Top side	0.557	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.908	0.708	0.571	0.587	0.642	0.936	0.744	0.937	0.576
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENDC LTE B2	Front side	0.606	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.952	0.831	0.615	0.617	0.768	0.766	0.755	0.764	0.648
	Back side	0.985	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.392	1.317	1.217	1.280	1.314	1.393	1.377	1.404	1.365
	Left side	0.277	/	/	/	/	/	/	/	/	/	/	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277
	Right side	0.090	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.502	0.418	0.099	0.178	0.317	0.405	0.393	0.416	0.217
	Top side	1.077	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.428	1.228	1.091	1.107	1.162	1.456	1.264	1.457	1.096
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENDC LTE B5	Front side	0.052	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.398	0.277	0.061	0.063	0.214	0.212	0.201	0.210	0.094
	Back side	0.230	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.637	0.562	0.462	0.525	0.559	0.638	0.622	0.649	0.610
	Left side	0.133	/	/	/	/	/	/	/	/	/	/	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133
	Right side	0.101	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.513	0.429	0.110	0.189	0.328	0.416	0.404	0.427	0.228
	Top side	0.171	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.522	0.322	0.185	0.201	0.256	0.550	0.358	0.551	0.190
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENDC LTE B66	Front side	0.554	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.900	0.779	0.563	0.565	0.716	0.714	0.703	0.712	0.596
	Back side	0.692	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.099	1.024	0.924	0.987	1.021	1.100	1.084	1.111	1.072
	Left side	0.226	/	/	/	/	/	/	/	/	/	/	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
	Right side	0.145	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.557	0.473	0.154	0.233	0.372	0.460	0.448	0.471	0.272
	Top side	0.674	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	1.025	0.825	0.688	0.704	0.759	1.053	0.861	1.054	0.693
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Test positionN	SARmax (W/kg)											Summed SAR									
	Main Ant4	WiFi 2.4G Ant7	WiFi 2.4G Ant9	WiFi 2.4G MIMO	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant7	WiFi 6E Ant9	WiFi 6E MIMO	BT	1+2	1+4	1+8	1+10	1+3+11	1+5+11	1+6+11	1+7+11	1+9+11	
	1	2	3	4	5	6	7	8	9	10	11										
N41	Front side	0.238	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.584	0.463	0.247	0.249	0.400	0.398	0.387	0.396	0.280
	Back side	0.794	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	1.201	1.126	1.026	1.089	1.123	1.202	1.186	1.213	1.174
	Left side	0.668	/	/	/	/	/	/	/	/	/	/	0.668	0.668	0.668	0.668	0.668	0.668	0.668	0.668	0.668
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
N77	Front side	0.070	0.346	0.140	0.225	0.138	0.127	0.136	0.009	0.020	0.011	0.022	0.416	0.295	0.079	0.081	0.232	0.230	0.219	0.228	0.112
	Back side	0.483	0.407	0.306	0.332	0.385	0.369	0.396	0.232	0.357	0.295	0.023	0.890	0.815	0.715	0.778	0.812	0.891	0.875	0.902	0.863
	Left side	0.355	/	/	/	/	/	/	/	/	/	/	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355	0.355
	Right side	/	0.412	0.206	0.328	0.294	0.282	0.305	0.009	0.106	0.088	0.021	0.412	0.328	0.009	0.088	0.227	0.315	0.303	0.326	0.127
	Top side	/	0.351	0.066	0.151	0.360	0.168	0.361	0.014	0.000	0.030	0.019	0.351	0.151	0.014	0.030	0.085	0.379	0.187	0.380	0.019
	Bottom side	/	/	/	/	/	/	/	/	/	/	/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000



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Product specific 10g SAR:

Test positionN		SARmax (W/kg)								
		Main Ant1	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant9				
		1	2	3	4	6	1+2	1+3	1+4	1+6
N41	Front side	/	0.244	0.162	0.266	/	0.244	0.162	0.266	0.000
	Back side	2.716	0.502	0.541	0.428	0.547	3.218	3.257	3.144	3.263
	Left side	/	/	/	/	/	0.000	0.000	0.000	0.000
	Right side	/	0.567	0.494	0.509	/	0.567	0.494	0.509	0.000
	Top side	/	1.186	0.106	1.156	/	1.186	0.106	1.156	0.000
	Bottom side	2.851	/	/	/	/	2.851	2.851	2.851	2.851

Test position		SARmax (W/kg)								
		Main Ant3	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant9				
		1	2	3	4	6	1+2	1+3	1+4	1+6
LTE B30	Front side	/	0.244	0.162	0.266	/	0.244	0.162	0.266	0.000
	Back side	2.847	0.502	0.541	0.428	0.547	3.349	3.388	3.275	3.394
	Left side	/	/	/	/	/	0.000	0.000	0.000	0.000
	Right side	/	0.567	0.494	0.509	/	0.567	0.494	0.509	0.000
	Top side	2.342	1.186	0.106	1.156	/	3.528	2.448	3.498	2.342
	Bottom side	/	/	/	/	/	0.000	0.000	0.000	0.000
N30	Front side	/	0.244	0.162	0.266	/	0.244	0.162	0.266	0.000
	Back side	2.346	0.502	0.541	0.428	0.547	2.848	2.887	2.774	2.893
	Left side	/	/	/	/	/	0.000	0.000	0.000	0.000
	Right side	/	0.567	0.494	0.509	/	0.567	0.494	0.509	0.000
	Top side	2.247	1.186	0.106	1.156	/	3.433	2.353	3.403	2.247
Bottom side	/	/	/	/	/	0.000	0.000	0.000	0.000	
N41	Front side	/	0.244	0.162	0.266	/	0.244	0.162	0.266	0.000
	Back side	3.030	0.502	0.541	0.428	0.547	3.532	3.571	3.458	3.577
	Left side	/	/	/	/	/	0.000	0.000	0.000	0.000
	Right side	/	0.567	0.494	0.509	/	0.567	0.494	0.509	0.000
	Top side	1.488	1.186	0.106	1.156	/	2.674	1.594	2.644	1.488
Bottom side	/	/	/	/	/	0.000	0.000	0.000	0.000	

Test position		SARmax (W/kg)								
		Main Ant5	WiFi 5G Ant7	WiFi 5G Ant9	WiFi 5G MIMO	WiFi 6E Ant9				
		1	2	3	4	6	1+2	1+3	1+4	1+6
N77	Front side	/	0.244	0.162	0.266	/	0.244	0.162	0.266	0.000
	Back side	/	0.502	0.541	0.428	0.547	0.502	0.541	0.428	0.547
	Left side	3.112	/	/	/	/	3.112	3.112	3.112	3.112
	Right side	/	0.567	0.494	0.509	/	0.567	0.494	0.509	0.000
	Top side	/	1.186	0.106	1.156	/	1.186	0.106	1.156	0.000
	Bottom side	/	/	/	/	/	0.000	0.000	0.000	0.000



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9 Equipment list

Test Platform	SPEAG DASY Professional					
Description	SAR Test System (Frequency range 300MHz-6GHz)					
Software Reference	DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)					
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 1	1912	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 2	1640	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 3	2031	NCR	NCR
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM 6	1913	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1267	2022/12/10	2023/12/09
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	896	2023/03/17	2024/03/16
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1663	2023/03/27	2024/03/26
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7620	2022/11/20	2023/11/19
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	7636	2023/06/05	2024/06/04
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3624	2023/05/17	2024/05/16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D750V3	1160	2022/06/06	2025/06/05
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d105	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1149	2022/06/17	2025/06/16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1900V2	5d028	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2300V2	1072	2022/06/16	2025/06/15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	733	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	1125	2022/06/14	2025/06/13
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3500V2	1082	2022/09/19	2025/09/18
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3700V2	1046	2022/09/15	2025/09/14
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3900V2	1026	2022/09/16	2025/09/15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	1165	2022/11/01	2025/10/31
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAKS-3.5	0005	2023/6/15	2024/6/14
<input checked="" type="checkbox"/>	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0140913	2023/6/7	2024/6/6
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	6201616273	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	6201381734	2023/05/25	2024/05/24
<input checked="" type="checkbox"/>	Radio Communication Analyzer	Anritsu	MT8820C	6201074424	2022/11/18	2023/11/17
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	Agilent	N5171B	MY53050736	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Preamplifier	Mini-Circuits	ZHL-42W	15542	NCR	NCR
<input checked="" type="checkbox"/>	Preamplifier	Compliance Directions	AMP28-3W	073501433	NCR	NCR



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		Systems Inc.				
<input checked="" type="checkbox"/>	Power Meter	Agilent	E4416A	GB41292095	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Power Sensor	Agilent	8481H	MY41091234	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Power Sensor	R&S	NRP-Z92	100025	2023/02/16	2024/02/15
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	MingGao	T809	NA	2023/05/26	2024/05/25
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	KIMTOKA	KIMTOKA	NA	2023/02/17	2024/02/16
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	ZGL2020120550471	2023/05/26	2024/05/25
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	ZGL2020120550472	2023/05/26	2024/05/25

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



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

Appendix E: Conducted RF Output Power

Appendix F: Antenna Locations

---END---



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