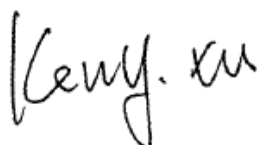


SAR TEST REPORT

Application No.: SZCR2412004609WM
Applicant: vivo Mobile Communication Co., Ltd.
Address of Applicant: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer: vivo Mobile Communication Co., Ltd.
Address of Manufacturer: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
EUT Description: Mobile Phone
Model No.: V2427
Trade Mark: vivo
FCC ID: 2AUCY-V2427
Standards: FCC 47CFR §2.1093
Date of Receipt: 2024-12-10
Date of Test: 2024-12-12 to 2025-01-04
Date of Issue: 2025-01-08

Test Result :	PASS *
----------------------	---------------

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



Keny Xu
EMC Laboratory Manager



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Report No.: SZCR241200460902

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Revision Record			
Version	Description	Date	Remark
01		2025-01-08	/

Authorized for issue by:			
		Sherlock Fang	
		Sherlock Fang/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	



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TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)			
	Head	Body-worn	Hotspot	Product specific 10g SAR
GSM850	0.71	0.51	0.77	/
GSM1900	0.67	0.23	0.47	/
WCDMA Band II	0.59	0.30	0.32	/
WCDMA Band IV	0.91	0.35	0.43	/
WCDMA Band V	0.66	0.44	0.61	/
LTE Band 2/25*	0.69	0.27	0.43	/
LTE Band 7	0.74	0.40	0.47	/
LTE Band 12/17	0.50	0.35	0.64	/
LTE Band 13	0.61	0.28	0.39	/
LTE Band 26/5	0.57	0.48	0.38	/
LTE Band 41/38	0.73	0.23	0.39	/
LTE Band 42	0.76	0.31	0.32	0.99
LTE Band 66/4	0.86	0.40	0.41	/
NR Band n2	0.70	0.49	0.62	/
NR Band n7	0.89	0.46	0.45	2.86
NR Band n26/5	0.80	0.59	0.97	1.86
NR Band n41/38	0.84	0.47	0.73	2.73
NR Band n66	0.97	0.50	0.48	2.35
NR Band n77/78	0.74	0.48	0.48	1.75
WI-FI (2.4GHz)	0.62	0.33	0.58	/
WI-FI (5GHz)	0.62	0.25	0.66	1.34
BT	0.40	<0.10	0.21	/
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	1.38	0.94	1.30	3.69
SPLSR	/	/	/	/
SPLSR Limited	0.04			0.1

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Note:

1. The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WiFi/BT Antenn a.
2. According to TCB workshop (Overlapping LTE Bands): SAR in LTE band 4 (frequency range: 1710-1755) is covered by LTE band 66 (frequency range: 2110-2155). SAR in LTE band 5 (frequency range: 824-849 MHz) is covered by LTE band 26 (frequency range: 814-849 MHz). SAR in LTE band 17 (frequency range: 704-716 MHz) is covered by LTE band 12 (frequency range: 699-716 MHz). SAR in LTE band 38 (frequency range: 2570-2620 MHz) is covered by LTE band 41 (frequency range: 2496-2690 MHz). SAR in NR Band n5 (frequency range: 824-849 MHz) is covered by NR Band n26 (frequency range: 814-849 MHz). The SAR in NR Band n38 (frequency range: 2570-2620 MHz) is covered by NR Band n41 (frequency range: 2496-2690 MHz). The SAR in NR Band n78 (frequency range: 3700-3800 MHz) is covered by NR Band n77 (frequency range: 3450-3550 & 3700-3980MHz). 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.
3. This product supports LTE Band 25, but the frequency range is only 1850-1910 MHz. The bandwidth, modulation, RF specifications, etc. are completely consistent with LTE Band 2. Therefore, only LTE Band 2 was tested in this report.



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Appendix E: Conducted RF Output Power 169



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1 General Information

1.1 General Description of EUT

Product Name:	Mobile Phone		
Model No.:	V2427		
Trade Mark:	vivo		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environment / general population		
IMEI:	861994079993350; 861994079993012; 861994079994697; 861994079993335; 861994079993277; 861994079993392; 861994079994598.		
Hardware Version:	MP_0.1		
Software Version:	PD2437JF_EX_A_15.0.8.0.W30		
Antenna Type:	Integrated Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK,8PSK; WCDMA: QPSK,16QAM 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, $\pi/4$ DQPSK,8DPSK		
Device Class:	B		
GPRS Multi-slots Class:	33	EGPRS Multi-slots Class:	33
HSDPA UE Category:	24	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



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	LTE Band 2	1850 ~1910	1930 ~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869-894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704-716	734-746
	LTE Band 25	1850 ~1910	1930 ~1990
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 42	3450~3550	3450~3550
	LTE Band 66	1710~1780	2110~2180
	NR Band n2	1850 ~1910	1930 ~1990
	NR Band n5	824~849	869-894
	NR Band n7	2500~2570	2620~2690
	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41 (Class 2/3)	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2180
	NR Band n77	3450~3550	3450~3550
		3700~3980	3700~3980
	NR Band n78(Class 2/3)	3450~3550	3450~3550
		3700~3800	3700~3800
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5850	5725~5850
	BT	2402~2480	2402~2480
	NFC	13.56	13.56
RF Cable:	☒ Provided by applicant ☐ Provided by the laboratory		
Battery Information:	Model:	BA77	
	Normal Voltage:	3.84V	



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	Rated capacity:	5870mAh
	Manufacturer:	Sunwoda Electronic CO.,LTD.
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1.1.1 DUT Antenna Locations (Back View)

The DUT Antenna Locations can be referred to Part1 Appendix D

Note:

- 1) The test device is a smart phone. The overall diagonal dimension of this device is 163.10mm. 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
Ant11	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant12	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant13	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant14	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant21	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant22	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant23	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant24	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$
Ant25	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$
Ant31	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$
Ant41	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$\leq 25\text{mm}$	$> 25\text{mm}$	$> 25\text{mm}$	$\leq 25\text{mm}$

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.

1.1.2 Smart Transmit feature for RF Exposure compliance

The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm 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 $\leq$ 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.

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) version 20 to enable the Smart Transmit Feature GEN1.

<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.

$SAR_design_target < SAR_{regulatory_limit} \times 10(-total\ uncertainty)/10$

Uncertainty dB(k=2)	All Band
Total uncertainty	1.49

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Exposure position	Frequency band	SAR Regulatory Limit W/kg(1g)	SAR design target W/kg(1g)
Head	WWAN	1.6	0.60
Body	WWAN	1.6	0.75
Hotspot	WWAN	1.6	0.75

Exposure position	Frequency band	SAR_Regulatory_Limit W/kg(10g)	SAR_design_target W/kg(10g)
Product specific 10gSAR	WWAN	4.0	2.0

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 Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (DSI: Device State Index).

Plimit for supported technologies and bands (actual EFS settings)

Band	Mode	Antenna	P _{max} *	P _{limit} (average)				
				Head	Body Worn	Hotspot	Hotspot	Limbs
				DSI 2	DSI 4	DSI 9	DSI 10	DSI 5
GSM 850	GPRS 2TS	31#	25.0	25.0	25.0	/	/	/
	GPRS 4TS		24.5	/	/	/	23.0	/
	GPRS 4TS	11#	24.5	24.0	/	/	22.6	/
	GPRS 2TS		25.0	/	25.0	/	/	/
GSM 1900	GPRS 2TS	41#	22.0	22.0	22.0	/	/	/
	GPRS 4TS		21.5	/	/	/	21.0	/
	GPRS 4TS	14#	20.8	18.3	/	18.3	/	/
	GPRS 2TS		21.3	/	21.3	/	/	/
WCDMA_B2	RMC	41#	23.3	23.3	21.3	/	19.8	/
	RMC	14#	22.6	17.1	22.6	19.1	/	/
WCDMA_B4	RMC	41#	24.0	24.0	21.0	/	20.0	/
	RMC	14#	23.3	16.8	23.3	19.8	/	/
WCDMA_B5	RMC	31#	24.0	24.0	24.0	/	23.5	/



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	RMC	11#	24.0	22.5	24.0	/	21.5	/
LTE_B2/25	QPSK	41#	23.3	23.3	21.8	/	20.8	/
	QPSK	14#	22.6	17.6	22.6	20.6	/	/
	QPSK	12#	22.5	18.5	21.5	/	20.0	/
	QPSK	24#	21.0	19.5	21.0	/	21.0	/
LTE_B4	QPSK	41#	24.3	24.3	20.8	/	19.8	/
	QPSK	14#	23.6	17.1	23.6	19.6	/	/
	QPSK	12#	23.5	17.5	20.5	/	19.0	/
	QPSK	24#	22.2	18.7	22.2	/	22.2	/
LTE_B5	QPSK	31#	24.3	24.3	24.3	/	23.8	/
	QPSK	11#	24.3	22.3	24.3	/	20.8	/
LTE_B7	QPSK	41#	24.3	24.3	20.3	/	18.8	/
	QPSK	14#	23.7	15.2	23.7	17.7	/	/
	QPSK	12#	23.7	15.7	18.7	/	17.2	/
	QPSK	24#	21.4	14.9	18.9	/	17.9	/
LTE_B12	QPSK	31#	23.5	23.5	23.5	/	23.5	/
	QPSK	11#	23.5	21.5	23.5	/	21.5	/
LTE_B13	QPSK	31#	23.5	23.5	23.5	/	23.5	/
	QPSK	11#	23.5	23.0	23.5	/	19.5	/
LTE_B17	QPSK	31#	23.5	23.5	23.5	/	23.5	/
	QPSK	11#	23.5	21.5	23.5	/	21.0	/
LTE_B25	QPSK	41#	23.3	23.3	21.8	/	20.8	/
	QPSK	14#	22.6	17.6	22.6	20.6	/	/
	QPSK	12#	22.5	18.5	21.5	/	20.0	/
	QPSK	24#	21.0	19.5	21.0	/	21.0	/
LTE_B26	QPSK	31#	24.3	24.3	24.3	/	23.8	/
	QPSK	11#	24.3	22.3	24.3	/	20.8	/
LTE_B38	QPSK	41#	22.3	22.3	20.3	/	17.8	/
	QPSK	14#	21.3	14.8	21.3	18.3	/	/
	QPSK	12#	21.2	15.7	19.2	/	17.7	/
	QPSK	24#	20.3	15.3	20.3	/	18.8	/
LTE_B41	QPSK	41#	22.3	22.3	20.3	/	17.8	/
	QPSK	14#	21.3	14.8	21.3	18.3	/	/



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	QPSK	12#	21.2	15.7	19.2	/	17.7	/
	QPSK	24#	20.3	15.3	20.3	/	18.8	/
LTE_B42	QPSK	14#	21.5	13.0	21.5	13.0	/	17.5
	QPSK	23#	18.5	13.5	18.5	/	18.0	/
	QPSK	13#	22.0	13.5	18.0	/	16.5	/
	QPSK	21#	18.5	18.5	18.5	/	18.5	/
LTE_B66	QPSK	41#	24.3	24.3	20.8	/	19.8	/
	QPSK	14#	23.6	17.1	23.6	19.6	/	/
	QPSK	12#	23.5	17.5	20.5	/	19.0	/
	QPSK	24#	22.2	18.7	22.2	/	22.2	/
NR5G_N2-SA	QPSK	41#	23.3	23.3	20.8	/	19.3	/
	QPSK	14#	22.6	16.6	22.6	20.1	/	/
	QPSK	12#	22.5	17.0	21.5	/	20.0	/
	QPSK	24#	21.0	18.5	21.0	/	21.0	/
NR5G_N2-NSA	QPSK	41#	23.8	23.8	21.3	/	19.8	/
	QPSK	14#	23.3	17.3	23.3	20.8	/	/
	QPSK	12#	23.3	17.8	22.3	/	20.8	/
	QPSK	24#	21.8	19.3	21.8	/	21.8	/
NR5G_N5	QPSK	31#	24.5	24.5	24.5	/	23.5	/
	QPSK	11#	24.5	22.5	24.5	/	22.0	/
NR5G_N7-SA	QPSK	41#	24.0	24.0	20.0	/	18.5	/
	QPSK	14#	23.0	15.5	23.0	18.0	/	19.5
	QPSK	12#	22.9	15.4	19.4	/	17.9	/
	QPSK	24#	20.7	14.2	18.2	/	17.2	/
NR5G_N7-NSA	QPSK	41#	24.5	24.5	20.8	/	19.3	/
	QPSK	14#	23.7	16.5	23.7	19.0	/	20.5
	QPSK	12#	23.7	16.5	20.5	/	19.0	/
	QPSK	24#	21.4	15.2	19.2	/	18.2	/
NR5G_N26	QPSK	31#	24.5	24.5	24.5	/	23.5	/
	QPSK	11#	24.5	22.5	24.5	/	22.0	23.0
NR5G_N38-SA	QPSK	41#	24.5	24.5	19.5	/	18.0	/
	QPSK	14#	23.5	14.5	23.5	18.0	/	/
	QPSK	12#	23.5	15.5	19.5	/	18.0	/



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	QPSK	24#	22.6	14.1	19.1	/	17.6	/
NR5G_N38-NSA	QPSK	41#	24.5	24.5	20.5	/	19.0	/
	QPSK	14#	23.5	15.5	23.5	19.0	/	/
	QPSK	12#	23.5	16.5	20.5	/	19.0	/
	QPSK	24#	21.2	14.1	19.1	/	17.6	/
NR5G_N41-PC2 SA	QPSK	41#	26.5	26.5	19.5	/	18.0	/
	QPSK	14#	25.5	16.0	24.0	18.5	/	20.0
	QPSK	12#	25.4	16.4	19.4	/	17.9	/
	QPSK	24#	23.8	15.3	20.3	/	18.8	/
NR5G_N41-PC2 NSA	QPSK	41#	26.5	26.5	20.5	/	19.0	/
	QPSK	14#	25.7	17.0	25.0	19.5	/	21.0
	QPSK	12#	25.7	17.5	20.5	/	19.0	/
	QPSK	24#	24.2	16.5	21.5	/	20.0	/
NR5G_N41-PC3 SA	QPSK	41#	25.0	25.0	19.5	/	18.0	/
	QPSK	14#	24.0	16.0	24.0	18.5	/	20.0
	QPSK	12#	23.9	16.4	19.4	/	17.9	/
	QPSK	24#	22.3	15.3	20.3	/	18.8	/
NR5G_N41-PC3 NSA	QPSK	41#	25.0	25.0	20.5	/	19.0	/
	QPSK	14#	24.2	17.0	24.2	19.5	/	21.0
	QPSK	12#	24.2	17.5	20.5	/	19.0	/
	QPSK	24#	22.7	16.5	21.5	/	20.0	/
NR5G_N66 SA	QPSK	41#	23.5	23.5	21.0	/	18.5	/
	QPSK	14#	22.8	16.8	22.8	17.8	/	19.8
	QPSK	12#	22.7	17.2	20.7	/	19.2	/
	QPSK	24#	21.4	16.9	21.4	/	21.4	/
NR5G_N66 NSA	QPSK	41#	24.1	24.1	21.6	/	19.1	/
	QPSK	14#	23.5	17.5	23.5	18.5	/	20.5
	QPSK	12#	23.5	18.0	21.5	/	20.0	/
	QPSK	24#	22.4	17.9	22.4	/	22.4	/
NR5G_N77	QPSK	14#	23.5	14.0	21.0	15.5	/	17.5
	QPSK	23#	20.5	13.5	18.5	/	17.0	/
	QPSK	13#	24.0	12.5	18.5	/	17.0	/
	QPSK	21#	20.5	16.0	17.0	/	15.5	/



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NR5G_N78 PC2	QPSK	14#	26.5	14.0	21.0	15.5	/	17.5
	QPSK	23#	23.5	13.5	18.5	/	17.0	/
	QPSK	13#	27.0	12.5	18.5	/	17.0	/
	QPSK	21#	23.5	16.0	17.0	/	15.5	/
NR5G_N78 PC3	QPSK	14#	25.0	14.0	21.0	15.5	/	17.5
	QPSK	23#	22.0	13.5	18.5	/	17.0	/
	QPSK	13#	25.5	12.5	18.5	/	17.0	/
	QPSK	21#	22.0	16.0	17.0	/	15.5	/

Note:

- 1) *Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + Total uncertainty.
- 2) The max allowed output power is the Plimit + Total uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.
- 3) Note that WLAN operations are not enabled with Smart Transmit.
- 4) The following table is duty cycle and factor used for calculating time average power.

Mode	Duty Cycle	Time Average calculation Factor
GSM 1TX/CS	12.5%	-9.0
GSM 2TX	25.0%	-6.0
GSM 3TX	37.5%	-4.3
GSM 4TX	50.0%	-3.0
WCDMA / LTE FDD	100.0%	0.0
LTE TDD	63.3%	-2.0
LTE TDD HPUE	43.3%	-3.6
NR FDD/TDD	100.0%	0.0

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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1.1.3 Power reduction specification

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

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

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



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1.2 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



1.3 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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1.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.5 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 EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.



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2 Laboratory Environment

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



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3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

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

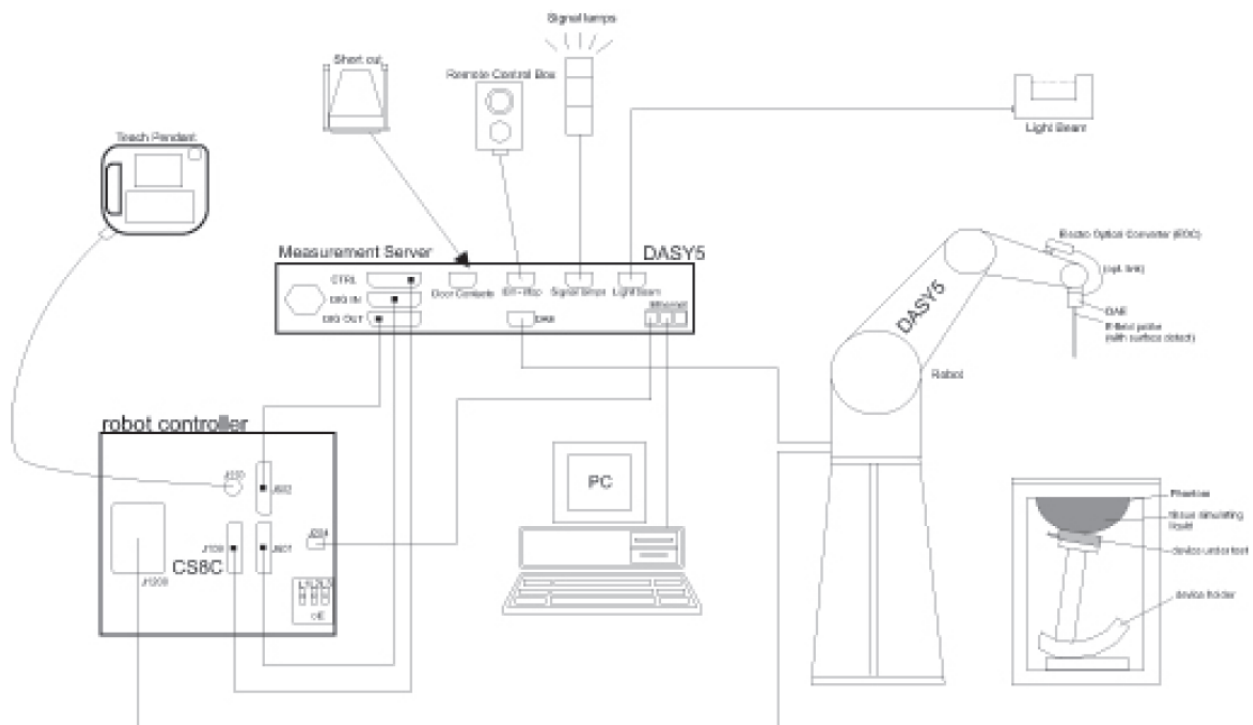
The DASY system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZSAR-TRF-01 Rev. A/0 May15,2023

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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 system.
- DASY software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.



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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 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY52 SAR and higher, EASY4/MRI

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	pprox.. 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	pprox.. 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.

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.

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.

		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		$5 \pm 1 \text{ mm}$	$\frac{1}{8} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$		$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
		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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$		$\leq 2 \text{ GHz: } \leq 8 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz: } \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 4 \text{ mm}$ $4 - 5 \text{ GHz: } \leq 3 \text{ mm}$ $5 - 6 \text{ GHz: } \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 3 \text{ mm}$ $4 - 5 \text{ GHz: } \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz: } \geq 28 \text{ mm}$ $4 - 5 \text{ GHz: } \geq 25 \text{ mm}$ $5 - 6 \text{ GHz: } \geq 22 \text{ mm}$

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. $\pm 5 \%$

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 "DAE". 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



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 KDB 865664 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.



5 Description of Test Position

5.1 The Head Test Position

5.1.1 SAM Phantom Shape

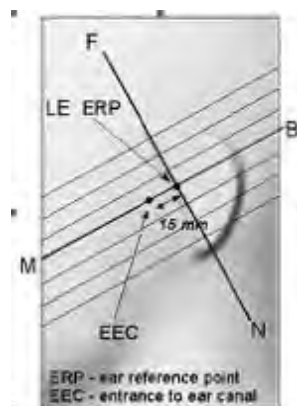


F-3. Front, back, and side views of SAM (model for the phantom shell). Full-head model is for illustration purposes only-procedures in this recommended practice are intended primarily for the phantom setup.

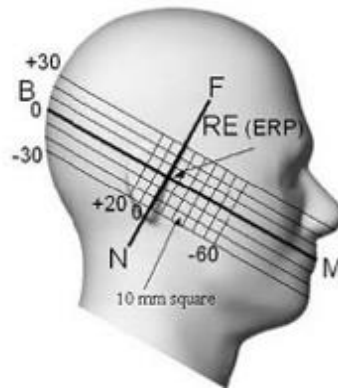
Note: The centre strip including the nose region has a different thickness tolerance.



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

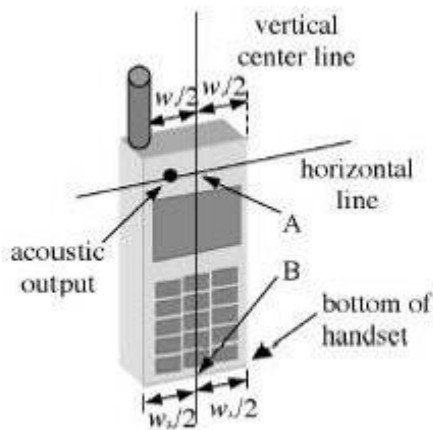


F-5. Close-up side view of phantom, showing the ear region, N-F and B-M lines, and seven cross-sectional plane locations

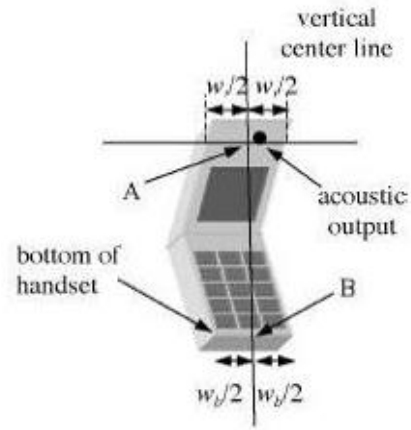


F-6.Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 “check” position

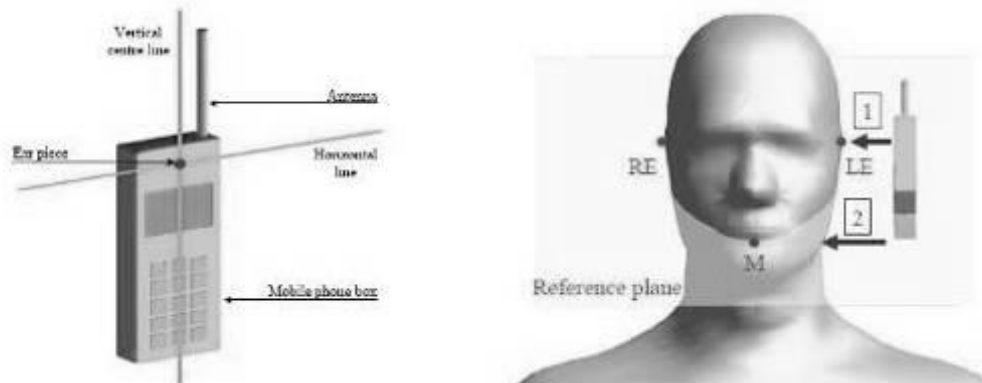
a) Position the device with the vertical centre line of the body of the device and the horizontal line crossing the centre of the ear piece in a plane parallel to the sagittal plane of the phantom (“initial position”). While maintaining the device in this plane, align the vertical centre line with the reference plane containing the three ear and mouth reference points (M, RE and LE) and align the centre of the ear piece with the line RE-LE.

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

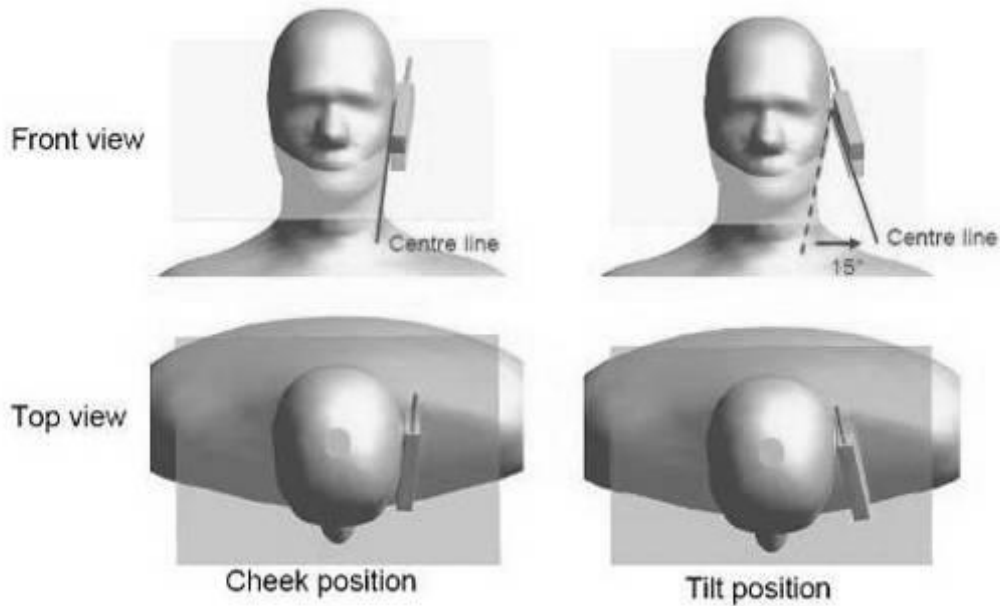
5.1.4 Definition of the “tilted” position

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

5.2 The Body Test Position

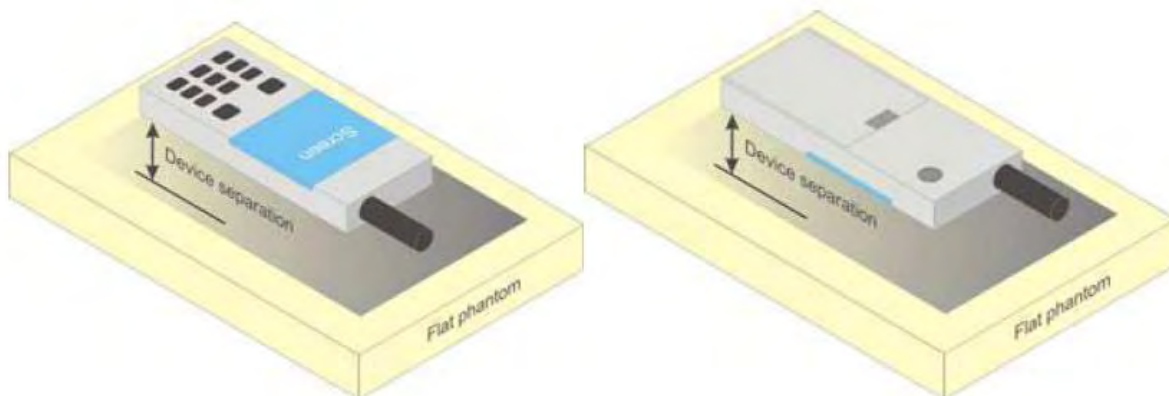
5.2.1 Body-worn accessory exposure conditions

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 $> 1.2 \text{ W/kg}$, 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

5.2.2 Wireless Router exposure conditions

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

5.3 Extremity exposure conditions

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

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

LTE Band 42 SAR Test Record													Product Specific 10-g SAR Exclusion
Ant 14 Test Record													
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Hotspot Test data (Separate 10mm 1RB) DSI 9													
Front side	20	QPSK 1_50	43490/3590	1:1.58	0.088	0.038	-0.02	15.48	24.50	7.980	0.702	22.2	Yes
Back side	20	QPSK 1_50	43490/3590	1:1.58	0.103	0.045	0.01	15.48	24.50	7.980	0.822	22.2	Yes
Left side	20	QPSK 1_50	43490/3590	1:1.58	0.048	0.010	0.04	15.48	24.50	7.980	0.383	22.2	Yes
Top side	20	QPSK 1_50	43490/3590	1:1.58	0.274	0.113	0.17	15.48	24.50	7.980	2.187	22.2	No
Hotspot Test data (Separate 10mm 50%RB) DSI 9													
Front side	20	QPSK 50_50	43490/3590	1:1.58	0.088	0.040	0.01	15.69	23.50	6.039	0.531	22.2	Yes
Back side	20	QPSK 50_50	43490/3590	1:1.58	0.115	0.050	0.16	15.69	23.50	6.039	0.695	22.2	Yes
Left side	20	QPSK 50_50	43490/3590	1:1.58	0.031	0.009	-0.09	15.69	23.50	6.039	0.187	22.2	Yes
Top side	20	QPSK 50_50	43490/3590	1:1.58	0.279	0.112	-0.19	15.69	23.50	6.039	1.685	22.2	No



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SA N7 SAR Test Record												
Ant 14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	40	QPSK 1_1	507000/2535	100%	0.225	0.115	-0.04	19.34	24.70	3.436	0.773	Yes
Back side	40	QPSK 1_1	507000/2535	100%	0.136	0.072	-0.01	19.34	24.70	3.436	0.467	Yes
Left side	40	QPSK 1_1	507000/2535	100%	0.119	0.061	0.18	19.34	24.70	3.436	0.409	Yes
Top side	40	QPSK 1_1	507000/2535	100%	0.293	0.136	-0.03	19.34	24.70	3.436	1.007	Yes
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	40	QPSK 108_54	510000/2550	100%	0.239	0.121	0.18	19.20	24.70	3.548	0.848	Yes
Back side	40	QPSK 108_54	510000/2550	100%	0.161	0.084	0.04	19.20	24.70	3.548	0.571	Yes
Left side	40	QPSK 108_54	510000/2550	100%	0.125	0.063	-0.04	19.20	24.70	3.548	0.444	Yes
Top side	40	QPSK 108_54	510000/2550	100%	0.375	0.184	-0.07	19.20	24.70	3.548	1.331	No

SA N26 SAR Test Record												
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_53	167800/839	100%	0.311	0.184	0.19	21.81	25.50	2.339	0.727	Yes
Back side	20	QPSK 1_53	167800/839	100%	0.341	0.205	0.05	21.81	25.50	2.339	0.798	Yes
Left side	20	QPSK 1_53	167800/839	100%	0.683	0.377	0.05	21.81	25.50	2.339	1.597	No
Bottom side	20	QPSK 1_53	167800/839	100%	0.041	0.026	0.18	21.81	25.50	2.339	0.096	Yes
Left side	20	QPSK 1_1	164800/824	100%	0.543	0.305	0.14	21.77	25.50	2.360	1.282	No
Left side	20	QPSK 1_104	166300/831.5	100%	0.738	0.455	-0.05	21.80	25.50	2.344	1.730	No
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	164800/824	100%	0.267	0.156	-0.17	21.69	25.50	2.404	0.642	Yes
Back side	20	QPSK 50_28	164800/824	100%	0.286	0.171	0.06	21.69	25.50	2.404	0.688	Yes
Left side	20	QPSK 50_28	164800/824	100%	0.618	0.347	-0.08	21.69	25.50	2.404	1.486	No
Bottom side	20	QPSK 50_28	164800/824	100%	0.026	0.019	0.06	21.69	25.50	2.404	0.063	Yes
Left side	20	QPSK 50_28	166300/831.5	100%	0.623	0.350	-0.05	21.64	25.50	2.432	1.515	No
Left side	20	QPSK 50_28	167800/839	100%	0.634	0.356	0.01	21.65	25.50	2.427	1.538	No
Head Test Data (100%RB) DSI 2												
Left side	20	QPSK 50_28	164800/824	100%	0.516	0.098	-0.10	20.79	24.50	2.350	1.212	No



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SA N41 SAR Test Record												
Ant14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.180	0.093	-0.10	20.28	26.00	3.733	0.672	Yes
Back side	100	QPSK 1_1	509202/2546.01	100%	0.260	0.134	0.06	20.28	26.00	3.733	0.970	Yes
Left side	100	QPSK 1_1	509202/2546.01	100%	0.176	0.087	-0.06	20.28	26.00	3.733	0.657	Yes
Top side	100	QPSK 1_1	509202/2546.01	100%	0.329	0.162	0.14	20.36	26.00	3.664	1.206	No
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	100	QPSK 135_69	509202/2546.01	100%	0.185	0.096	-0.17	19.93	26.00	4.046	0.748	Yes
Back side	100	QPSK 135_69	509202/2546.01	100%	0.270	0.139	0.18	19.93	26.00	4.046	1.092	Yes
Left side	100	QPSK 135_69	509202/2546.01	100%	0.148	0.073	0.01	19.93	26.00	4.046	0.599	Yes
Top side	100	QPSK 135_69	509202/2546.01	100%	0.384	0.179	0.16	19.93	26.00	4.046	1.554	No

SA N66 SAR Test Record												
Ant14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	40	QPSK 1_108	349000/1745	100%	0.187	0.121	-0.13	18.69	24.50	3.811	0.713	Yes
Back side	40	QPSK 1_108	349000/1745	100%	0.154	0.098	-0.01	18.69	24.50	3.811	0.587	Yes
Left side	40	QPSK 1_108	349000/1745	100%	0.085	0.046	0.07	18.69	24.50	3.811	0.324	Yes
Top side	40	QPSK 1_108	349000/1745	100%	0.348	0.183	-0.16	18.69	24.50	3.811	1.326	No
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	40	QPSK108_54	349000/1745	100%	0.210	0.134	0.08	18.73	24.50	3.776	0.793	Yes
Back side	40	QPSK108_54	349000/1745	100%	0.177	0.113	0.08	18.73	24.50	3.776	0.668	Yes
Left side	40	QPSK108_54	349000/1745	100%	0.096	0.053	-0.04	18.73	24.50	3.776	0.362	Yes
Top side	40	QPSK108_54	349000/1745	100%	0.355	0.202	0.03	18.73	24.50	3.776	1.340	No

SA N77 SAR Test Record												
Ant14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Product Specific 10-g SAR Exclusion
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	100	QPSK 1_271	633334/3500	100%	0.117	0.050	0.11	15.43	22.00	4.539	0.531	Yes
Back side	100	QPSK 1_271	633334/3500	100%	0.117	0.051	0.19	15.43	22.00	4.539	0.531	Yes
Left side	100	QPSK 1_271	633334/3500	100%	0.040	0.017	-0.06	15.43	22.00	4.539	0.182	Yes
Top side	100	QPSK 1_271	633334/3500	100%	0.364	0.146	-0.11	15.43	22.00	4.539	1.652	No
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	100	QPSK 135_69	633334/3500	100%	0.115	0.050	-0.11	15.35	22.00	4.624	0.532	Yes
Back side	100	QPSK 135_69	633334/3500	100%	0.141	0.060	-0.03	15.35	22.00	4.624	0.652	Yes
Left side	100	QPSK 135_69	633334/3500	100%	0.039	0.017	-0.16	15.35	22.00	4.624	0.180	Yes
Top side	100	QPSK 135_69	633334/3500	100%	0.371	0.152	0.14	15.35	22.00	4.624	1.715	No



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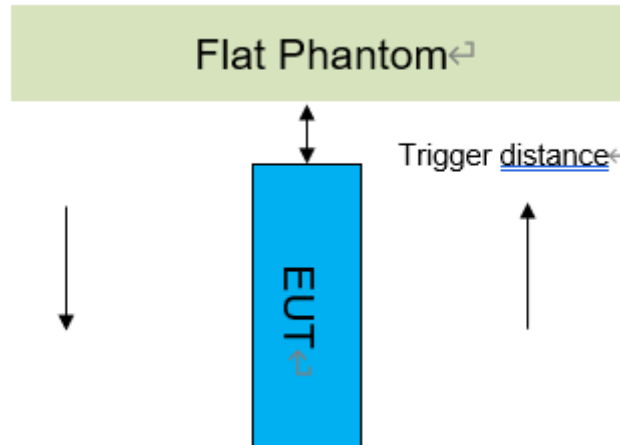
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5.4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

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

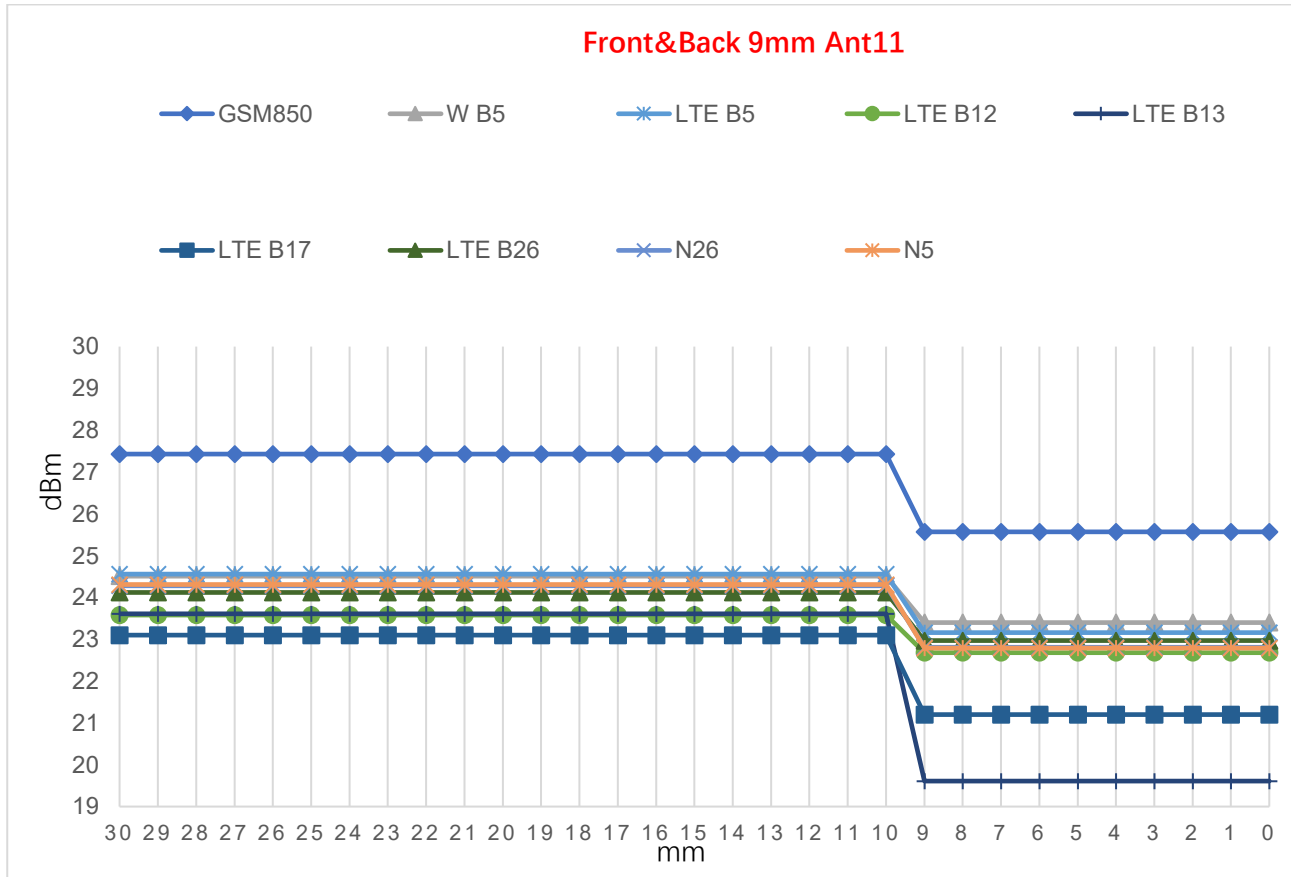


Proximity Sensor Triggering Distance(mm)		
Ant	Ant11	Ant14
Band	GSM850 WCDMA B5 LTE B5/12/13/17/26 NR n5/26	WCDMA B2/4 LTE B2/4/7/25/66/38/41/42 NR n2/7/66/38/41/77/78
Position	Left Side 13mm Front Side 9mm Back Side 9mm	Top Side 12mm Front Side 8mm Back Side 9mm

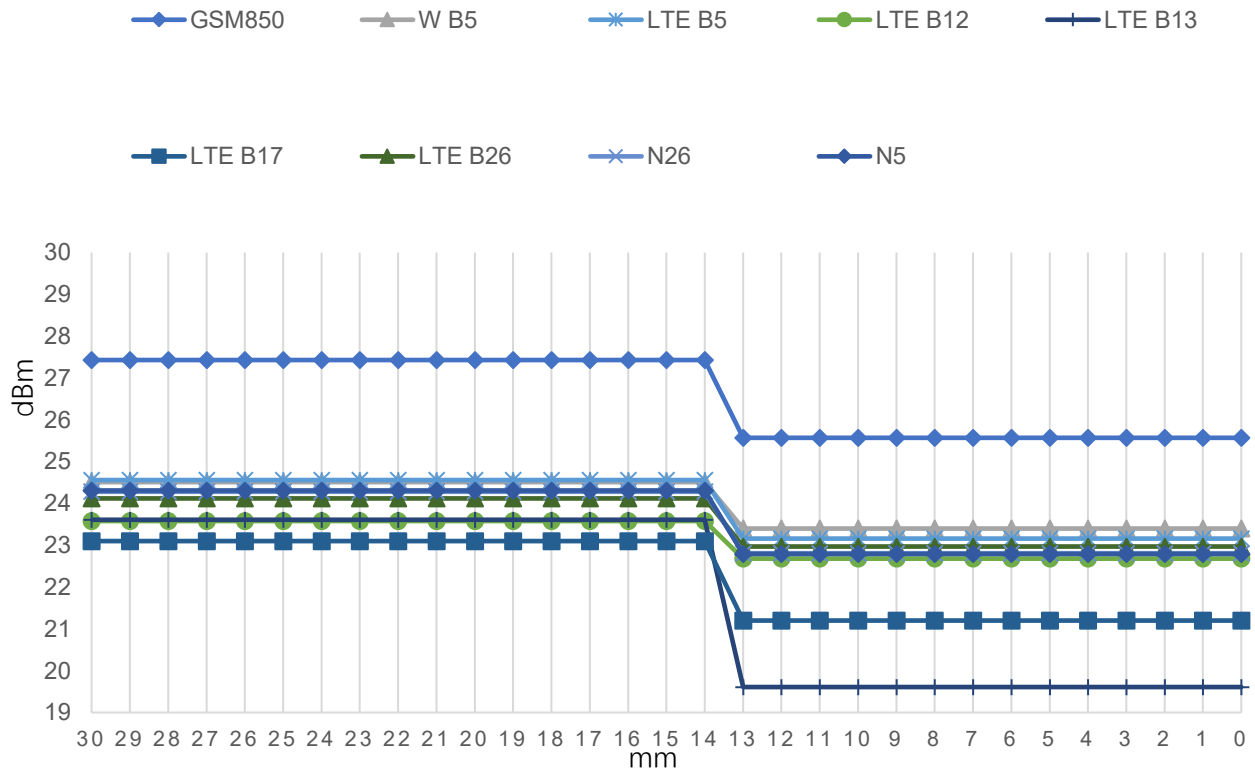
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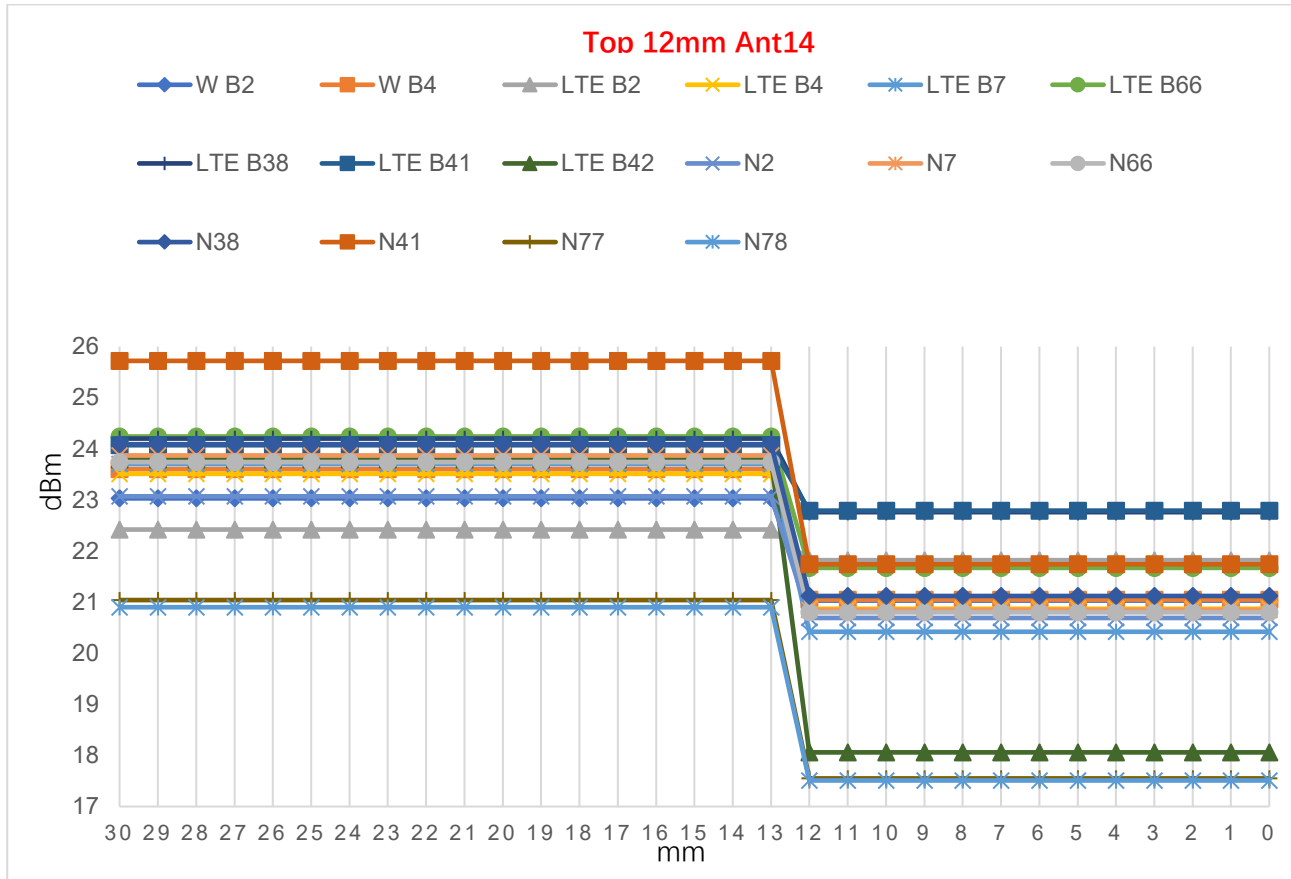
SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.

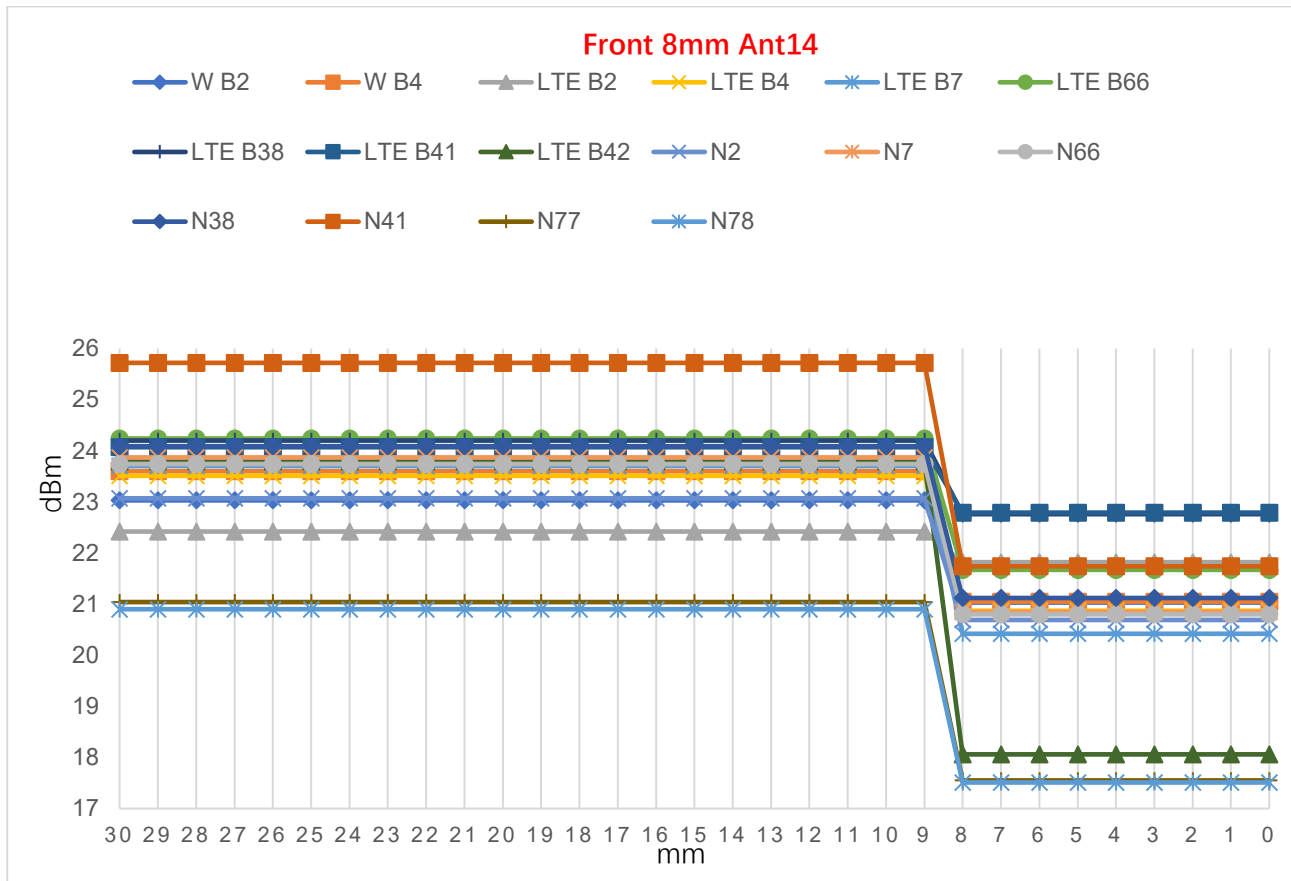
● DUT Moving Toward(Trigger)the Phantom

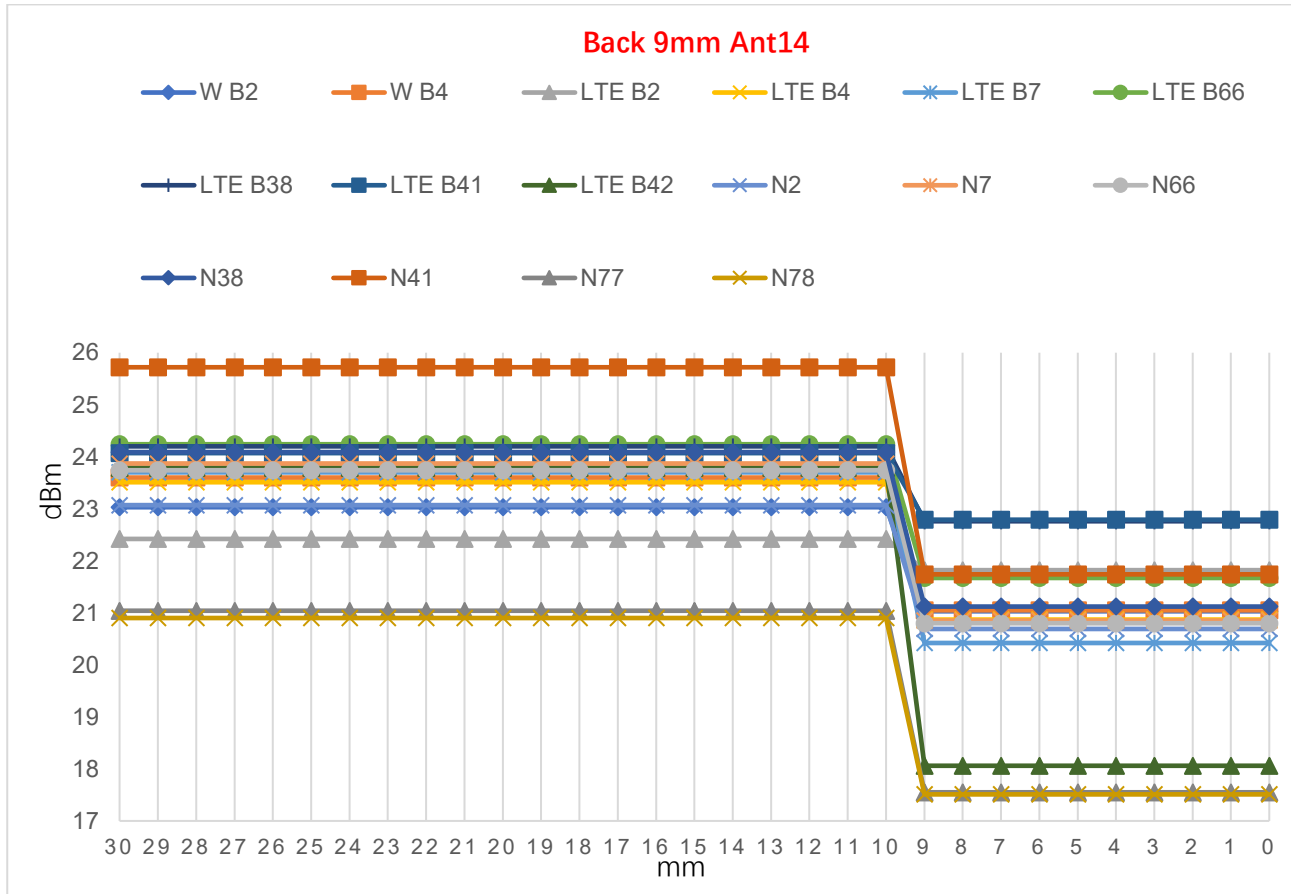


Left 13mm Ant11

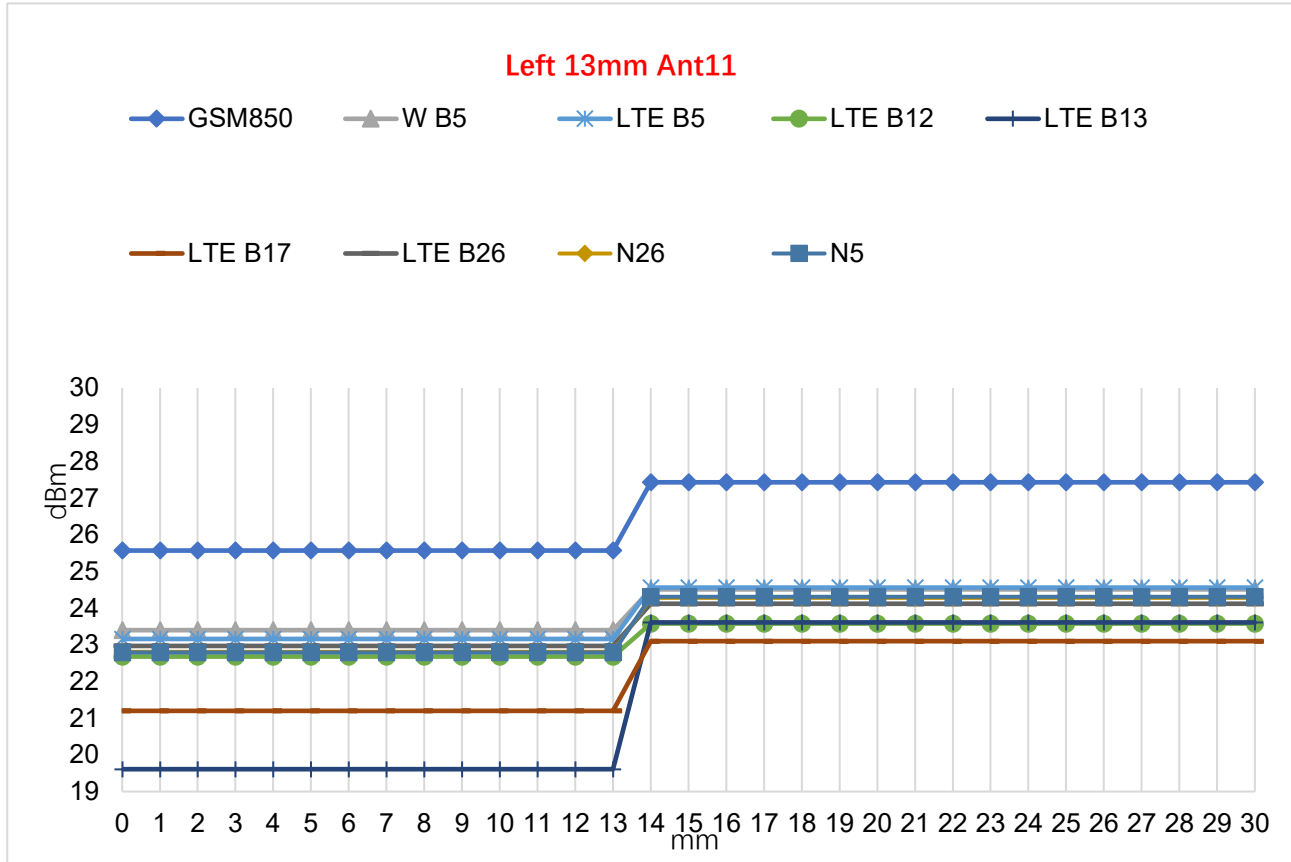


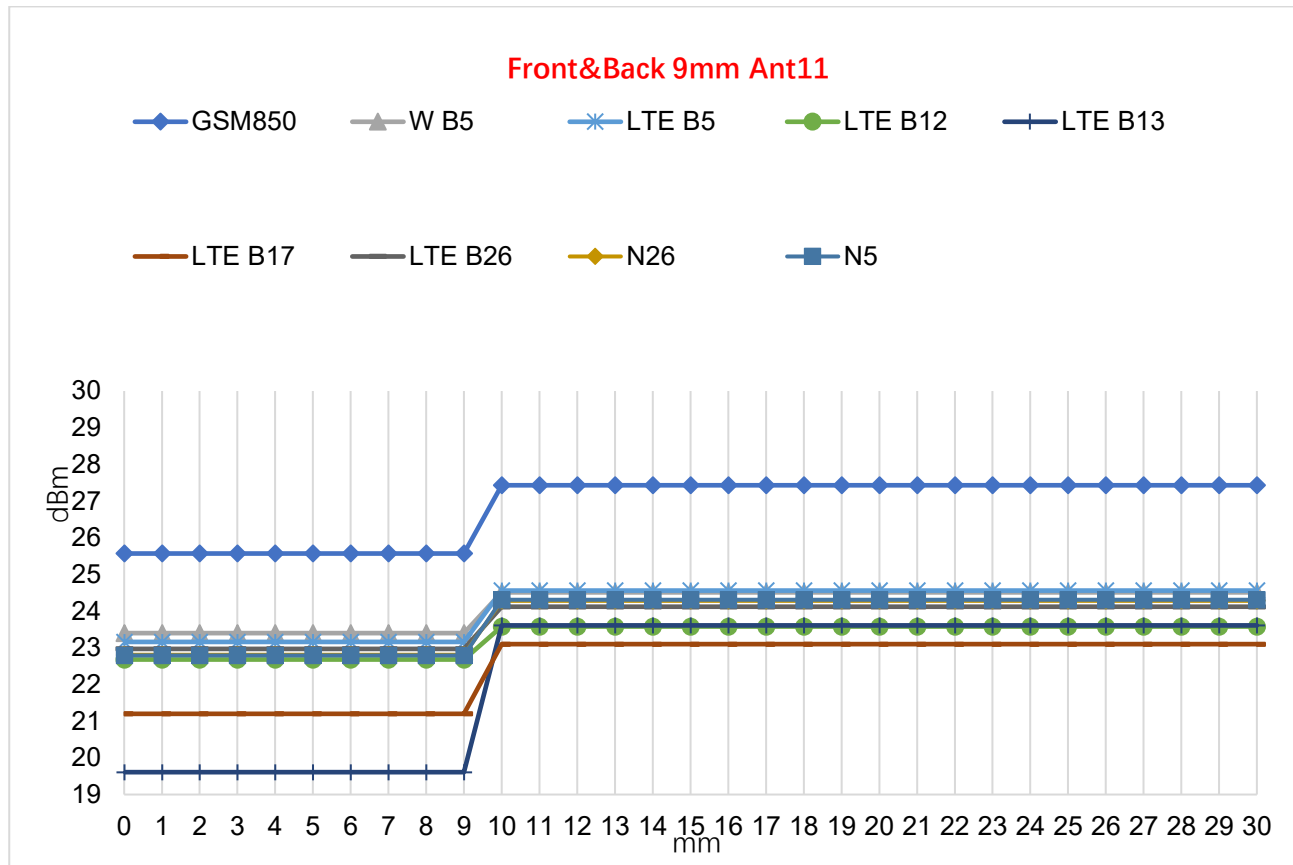






● DUT Moving Away(Release) from the Phantom



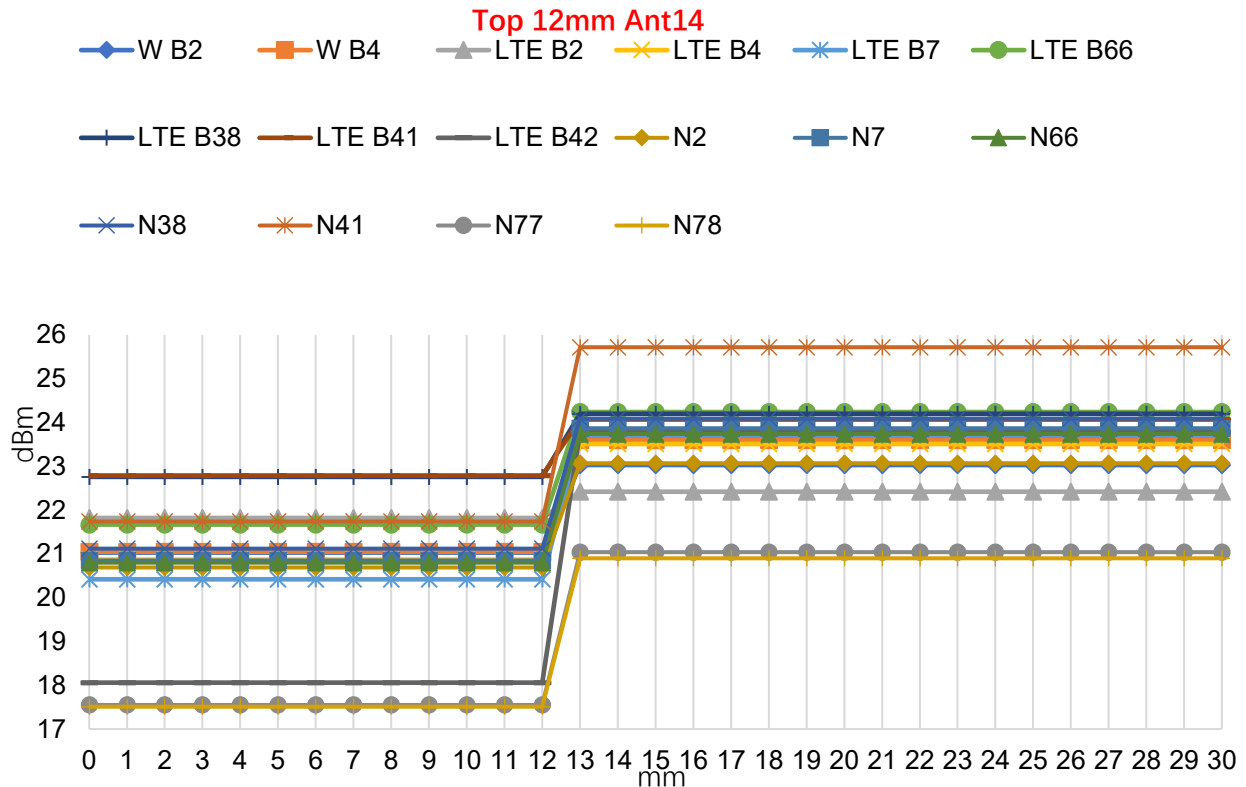


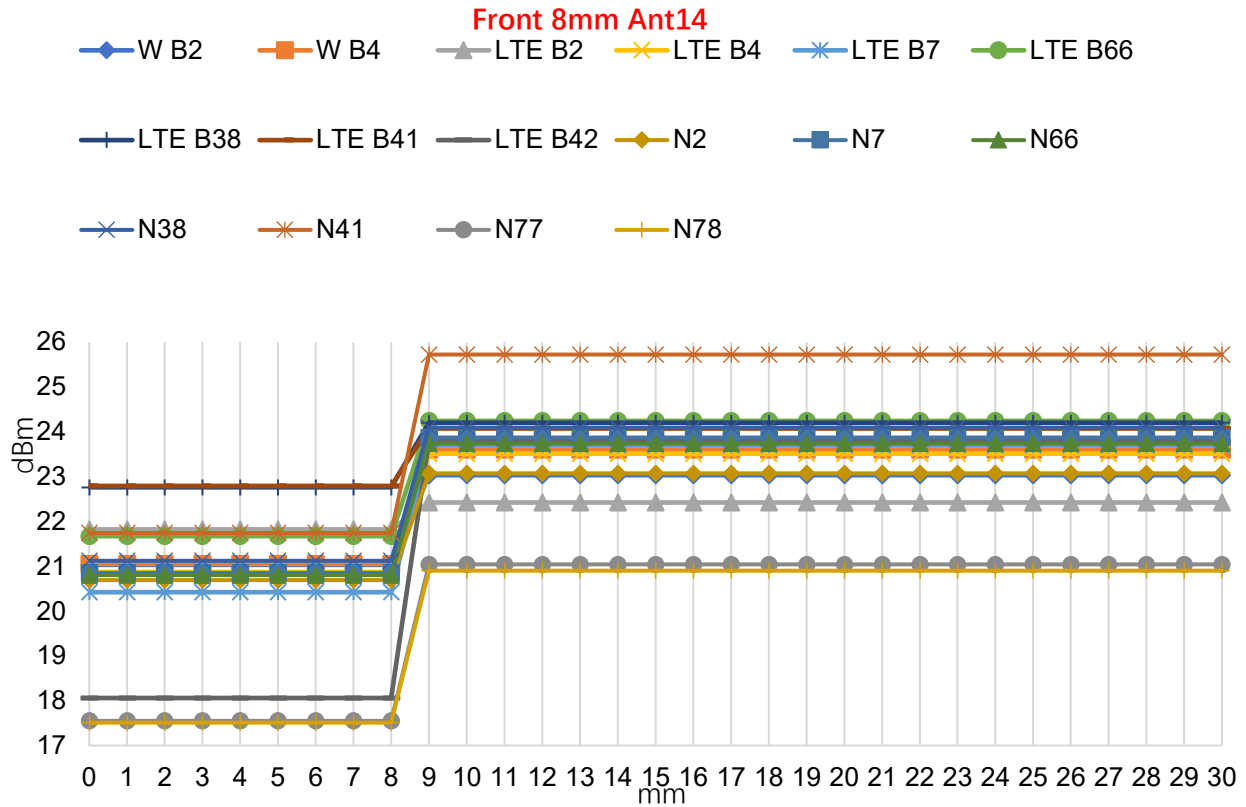
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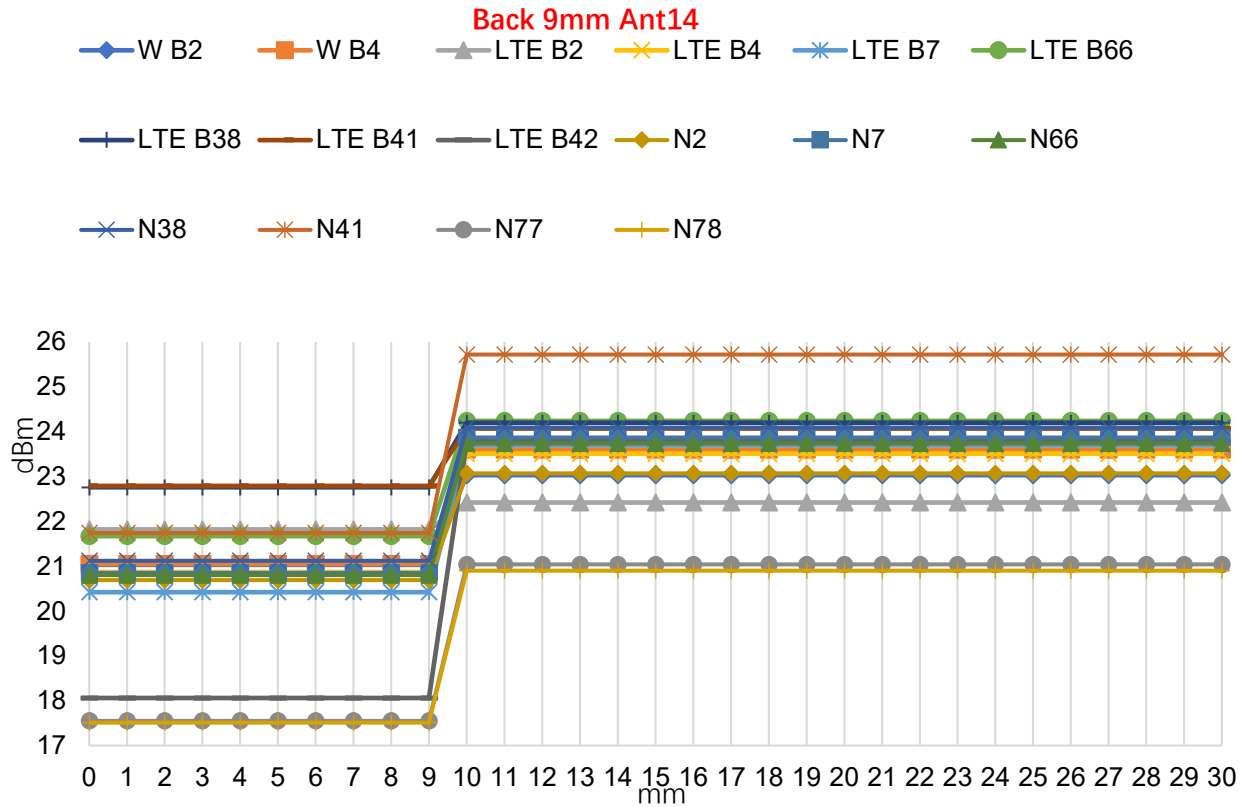
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Proximity sensor coverage

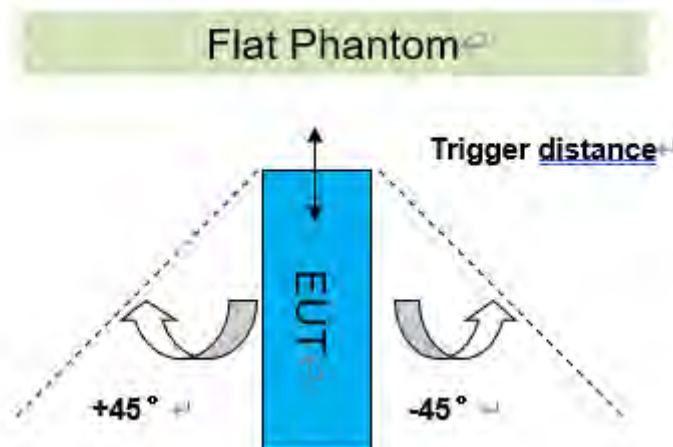
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user, but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage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

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

Device tilt angle influences on proximity sensor triggering

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

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



Summary of Tablet Tilt Angle Influence on Proximity Sensor Triggering for Edge Side

Summary of Tablet Tilt Angle Influence on Proximity Sensor Triggering for Edge Side													
Band (MHz)	Minimum trigger distance Per KDB616217§6.2	Minimum trigger distance at which power reduction was maintained over ±45°	Power Reduction Status										
			-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
Ant 11: GSM850 WCDMA B5 LTE B5/12/13/1726 NR n26	Left Side 13mm Front Side 9mm Back Side 9mm	Left Side 13mm Front Side 9mm Back Side 9mm	on	on	on	on	on	on	on	on	on	on	on
Ant 14: WCDMA B2/4 LTE B2/4/7/66/38/41/42 NR n2/7/66/38/41/77/78	Top Side12mm Front Side 8mm Back Side 9mm	Top Side12mm Front Side 8mm Back Side 9mm	on	on	on	on	on	on	on	on	on	on	on

6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

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

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	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 2 : Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

Measurement for Tissue Simulate Liquid									
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
750 Head	750	40.519	0.905	41.90	0.89	-3.30%	1.71%	22.1	2024/12/15
750 Head	750	40.439	0.902	41.90	0.89	-3.49%	1.33%	22.3	2024/12/16
835 Head	835	40.052	0.938	41.50	0.90	-3.49%	4.21%	22.0	2024/12/17
835 Head	835	39.982	0.935	41.50	0.90	-3.66%	3.85%	22.1	2024/12/20
835 Head	835	39.932	0.918	41.50	0.90	-3.78%	1.99%	22.4	2024/12/26
835 Head	835	40.242	0.932	41.50	0.90	-3.03%	3.59%	22.2	2024/12/27
1750 Head	1750	40.768	1.406	40.10	1.37	1.67%	2.60%	22.4	2024/12/12
1750 Head	1750	40.538	1.383	40.10	1.37	1.09%	0.97%	22.3	2024/12/13
1750 Head	1750	40.413	1.378	40.10	1.37	0.78%	0.58%	22.1	2024/12/14
1750 Head	1750	40.575	1.361	40.10	1.37	1.18%	-0.66%	22.3	2024/12/15
1750 Head	1750	40.132	1.424	40.10	1.37	0.08%	3.94%	22.2	2024/12/16
1900 Head	1900	39.960	1.364	40.00	1.40	-0.10%	-2.57%	22.1	2024/12/17
1900 Head	1900	40.058	1.364	40.00	1.40	0.15%	-2.57%	22.0	2024/12/18
1900 Head	1900	40.528	1.414	40.00	1.40	1.32%	1.00%	22.2	2024/12/19
1900 Head	1900	40.517	1.413	40.00	1.40	1.29%	0.93%	22.1	2024/12/20
1900 Head	1900	40.498	1.419	40.00	1.40	1.25%	1.33%	22.3	2024/12/26
1900 Head	1900	40.658	1.435	40.00	1.40	1.65%	2.53%	22.4	2024/12/27
2450 Head	2450	38.627	1.816	39.20	1.80	-1.46%	0.89%	22.3	2024/12/31
2600 Head	2600	39.093	2.049	39.00	1.96	0.24%	4.53%	22.1	2024/12/18
2600 Head	2600	39.123	2.024	39.00	1.96	0.32%	3.27%	22.4	2024/12/19
2600 Head	2600	38.388	1.901	39.00	1.96	-1.57%	-3.02%	22.5	2024/12/23
2600 Head	2600	38.128	1.883	39.00	1.96	-2.24%	-3.91%	22.0	2024/12/24
2600 Head	2600	40.064	1.984	39.00	1.96	2.73%	1.22%	22.2	2024/12/21
2600 Head	2600	38.625	1.917	39.00	1.96	-0.96%	-2.19%	22.1	2024/12/22
2600 Head	2600	38.737	1.934	39.00	1.96	-0.67%	-1.33%	22.4	2024/12/29
2600 Head	2600	39.974	1.971	39.00	1.96	2.50%	0.56%	22.3	2024/12/30
3400 Head	3400	38.352	2.775	38.00	2.81	0.93%	-1.25%	22.2	2024/12/21
3400 Head	3400	38.460	2.796	38.00	2.81	1.21%	-0.50%	22.3	2024/12/23
3500 Head	3500	38.031	2.899	37.90	2.91	0.34%	-0.37%	22.2	2024/12/24
3500 Head	3500	37.491	2.802	37.90	2.91	-1.08%	-3.70%	22.0	2024/12/25
3700 Head	3700	36.975	3.017	37.70	3.12	-1.92%	-3.31%	22.4	2024/12/28
3700 Head	3700	37.235	3.070	37.70	3.12	-1.23%	-1.60%	22.3	2024/12/29
3900 Head	3900	36.425	3.262	37.50	3.32	-2.87%	-1.75%	22.5	2024/12/30
3900 Head	3900	36.474	3.273	37.50	3.32	-2.74%	-1.43%	22.1	2024/12/31
5250 Head	5250	36.942	4.873	35.90	4.71	2.90%	3.46%	22.3	2025/1/2
5600 Head	5600	36.038	5.291	35.50	5.07	1.52%	4.36%	22.0	2025/1/3
5750 Head	5750	35.612	5.455	35.40	5.22	0.60%	4.50%	22.1	2025/1/4

Table 3 : Measurement result of Tissue electric parameters



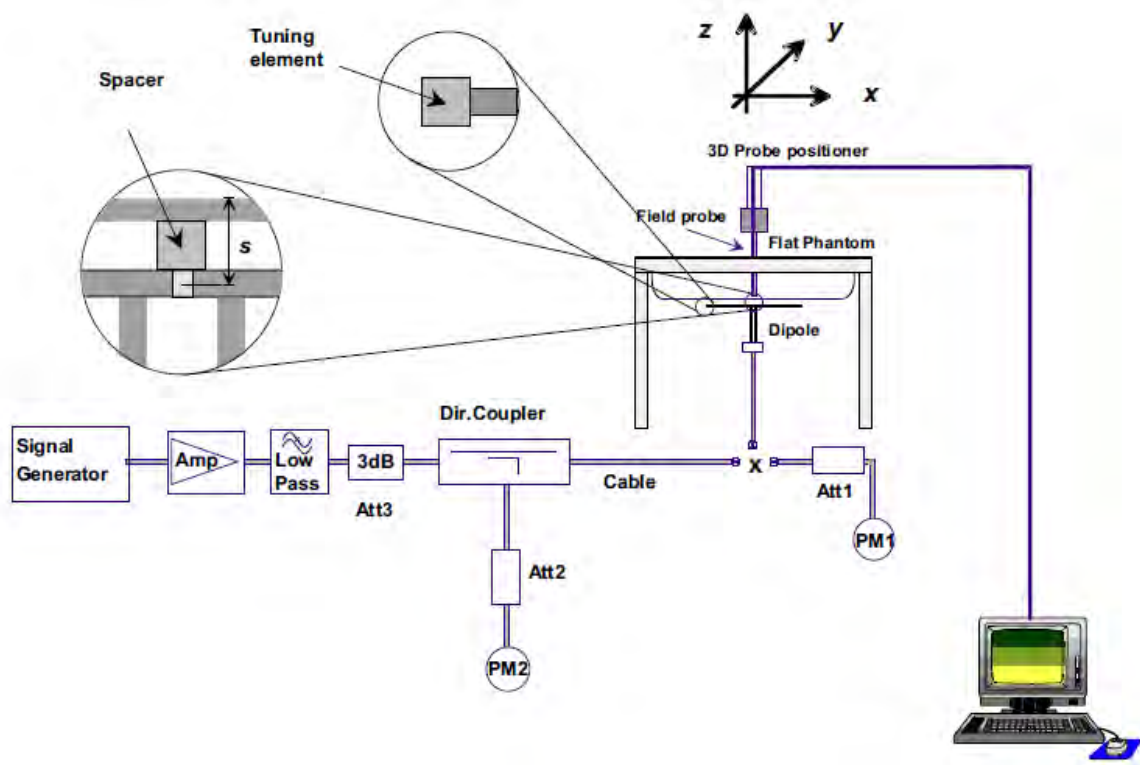
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6.2 SAR System Check

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 $\pm 10\%$ 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 $22\pm 2^\circ\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ 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

6.2.1 Justification for Extended SAR Dipole Calibrations

1) 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 20% 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)

SAR System Validation 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	2.18	1.47	8.72	5.88	8.37	5.53	4.18%	6.33%	22.1	2024/12/15
D750V3	Head	2.25	1.49	9.00	5.96	8.37	5.53	7.53%	7.78%	22.3	2024/12/16
D835V2	Head	2.57	1.67	10.28	6.68	9.53	6.29	7.87%	6.20%	22.0	2024/12/17
D835V2	Head	2.44	1.56	9.76	6.24	9.53	6.29	2.41%	-0.79%	22.1	2024/12/20
D835V2	Head	2.39	1.54	9.56	6.16	9.53	6.29	0.31%	-2.07%	22.4	2024/12/26
D835V2	Head	2.45	1.57	9.80	6.28	9.53	6.29	2.83%	-0.16%	22.2	2024/12/27
D1750V2	Head	9.06	4.82	36.24	19.28	36.60	19.30	-0.98%	-0.10%	22.4	2024/12/12
D1750V2	Head	9.69	5.24	38.76	20.96	36.60	19.30	5.90%	8.60%	22.3	2024/12/13
D1750V2	Head	9.26	4.96	37.04	19.84	36.60	19.30	1.20%	2.80%	22.1	2024/12/14
D1750V2	Head	9.63	5.16	38.52	20.64	36.60	19.30	5.25%	6.94%	22.3	2024/12/15
D1750V2	Head	9.32	5.01	37.28	20.04	36.60	19.30	1.86%	3.83%	22.2	2024/12/16
D1900V2	Head	9.62	4.91	38.48	19.64	39.50	20.60	-2.58%	-4.66%	22.1	2024/12/17
D1900V2	Head	10.1	5.25	40.40	21.00	39.50	20.60	2.28%	1.94%	22	2024/12/18
D1900V2	Head	10.5	5.44	42.00	21.76	39.50	20.60	6.33%	5.63%	22.2	2024/12/19
D1900V2	Head	10.1	5.16	40.40	20.64	39.50	20.60	2.28%	0.19%	22.1	2024/12/20
D1900V2	Head	10.5	5.46	42.00	21.84	39.50	20.60	6.33%	6.02%	22.3	2024/12/26
D1900V2	Head	10.2	5.23	40.80	20.92	39.50	20.60	3.29%	1.55%	22.4	2024/12/27
D2450V2	Head	13.30	6.35	53.20	25.40	52.20	24.30	1.92%	4.53%	22.3	2024/12/31
D2600V2	Head	15.10	6.76	60.40	27.04	57.70	25.80	4.68%	4.81%	22.1	2024/12/18
D2600V2	Head	14.80	6.63	59.20	26.52	57.70	25.80	2.60%	2.79%	22.4	2024/12/19
D2600V2	Head	13.60	6.34	54.40	25.36	57.70	25.80	-5.72%	-1.71%	22.5	2024/12/23
D2600V2	Head	13.30	5.98	53.20	23.92	57.70	25.80	-7.80%	-7.29%	22.0	2024/12/24
D2600V2	Head	14.30	6.51	57.20	26.04	57.70	25.80	-0.87%	0.93%	22.2	2024/12/21
D2600V2	Head	14.60	6.55	58.40	26.20	57.70	25.80	1.21%	1.55%	22.1	2024/12/22
D2600V2	Head	14.30	6.44	57.20	25.76	57.70	25.80	-0.87%	-0.16%	22.4	2024/12/29
D2600V2	Head	14.50	6.56	58.00	26.24	57.70	25.80	0.52%	1.71%	22.3	2024/12/30



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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(3.4GHz)	7.01	2.69	70.10	26.90	66.50	26.10	5.41%	3.07%	22.2	2024/12/21
	Head(3.4GHz)	6.90	2.64	69.00	26.40	66.50	26.10	3.76%	1.15%	22.3	2024/12/23
	Head(3.5GHz)	6.33	2.49	63.30	24.90	65.80	25.70	-3.80%	-3.11%	22.2	2024/12/24
	Head(3.5GHz)	6.89	2.63	68.90	26.30	65.80	25.70	4.71%	2.33%	22.0	2024/12/25
D3700V2	Head(3.7GHz)	6.82	2.48	68.20	24.80	66.10	24.70	3.18%	0.40%	22.4	2024/12/28
D3700V2	Head(3.7GHz)	6.94	2.52	69.40	25.20	66.10	24.70	4.99%	2.02%	22.3	2024/12/29
D3900V2	Head(3.9GHz)	6.90	2.42	69.00	24.20	66.70	23.80	3.45%	1.68%	22.5	2024/12/30
	Head(3.9GHz)	6.92	2.43	69.20	24.30	66.70	23.80	3.75%	2.10%	22.1	2024/12/31
D5GHzV2	Head(5.25GHz)	7.91	2.24	79.10	22.40	77.30	22.10	2.33%	1.36%	22.3	2025/1/2
	Head(5.6GHz)	8.00	2.25	80.00	22.50	81.30	23.10	-1.60%	-2.60%	22.0	2025/1/3
	Head(5.75GHz)	7.40	2.08	74.00	20.80	77.10	21.30	-4.02%	-2.35%	22.1	2025/1/4

Table 4 : 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 33 for this EUT, it has at most 4 timeslots in uplink and at most 5 timeslots in downlink, the maximum total timeslot is 6. The EGPRS class is 33 for this EUT, it has at most 4 timeslots in uplink, and at most 5 timeslots in downlink, the maximum total timeslot is 6.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units. 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, 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.

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



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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

RMC 12.2kbps setting is used to evaluate SAR. If the maximum output power for production units in HSDPA / HSUPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest measured SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power of HSDPA / HSUPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.5 W/kg, SAR measurement is not required for HSDPA / HSUPA.

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.

Sub-test	β_c	β_d	$\beta_d(SF)$	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: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8$ 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, Δ_{ACK} and $\Delta_{NACK} = 8$ (Ahs=30/15) with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 7$ (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.



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

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

Table 6 : HSDPA UE category

b) HSUPA

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



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Sub-test ¹⁾	β_c ²⁾	β_d ³⁾	β_d (SF) ⁴⁾	β_c/β_d ⁵⁾	β_{hsz} ⁶⁾	β_{acc} ⁷⁾	β_{ed} ⁸⁾	β_c (SF) ⁹⁾	β_{ed} (code) ¹⁰⁾	CM ¹¹⁾ (dB) ¹²⁾	MP R _x (dB) ¹³⁾	AG ¹⁴⁾ Index ¹⁵⁾	E-TFC I ¹⁶⁾
1 ¹⁾	11/15 ⁽³⁾	15/15 ⁽³⁾	64 ⁴⁾	11/15 ⁽³⁾	22/15 ⁶⁾	209/225 ⁷⁾	1039/225 ⁸⁾	4 ⁹⁾	1 ¹⁰⁾	1.0 ¹¹⁾	0.0 ¹³⁾	20 ¹⁵⁾	75 ¹⁶⁾
2 ¹⁾	6/15 ²⁾	15/15 ³⁾	64 ⁴⁾	6/15 ⁵⁾	12/15 ⁶⁾	12/15 ⁷⁾	94/75 ⁸⁾	4 ⁹⁾	1 ¹⁰⁾	3.0 ¹¹⁾	2.0 ¹³⁾	12 ¹⁵⁾	67 ¹⁶⁾
3 ¹⁾	15/15 ²⁾	9/15 ³⁾	64 ⁴⁾	15/9 ⁵⁾	30/15 ⁶⁾	30/15 ⁷⁾	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$ ⁸⁾	4 ⁹⁾	2 ¹⁰⁾	2.0 ¹¹⁾	1.0 ¹³⁾	15 ¹⁵⁾	92 ¹⁶⁾
4 ¹⁾	2/15 ²⁾	15/15 ³⁾	64 ⁴⁾	2/15 ⁵⁾	4/15 ⁶⁾	2/15 ⁷⁾	56/75 ⁸⁾	4 ⁹⁾	1 ¹⁰⁾	3.0 ¹¹⁾	2.0 ¹³⁾	17 ¹⁵⁾	71 ¹⁶⁾
5 ¹⁾	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64 ⁴⁾	15/15 ⁽⁴⁾	30/15 ⁶⁾	24/15 ⁷⁾	134/15 ⁸⁾	4 ⁹⁾	1 ¹⁰⁾	1.0 ¹¹⁾	0.0 ¹³⁾	21 ¹⁵⁾	81 ¹⁶⁾

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI=8$ $A_{hsz} = \beta_{hsz}/\beta_c = 30/15$ $\beta_{hsz} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hsz}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference¹⁷⁾
 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 $\beta_d = 15/15$ ¹⁸⁾
 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 $\beta_d = 15/15$ ¹⁹⁾
 Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g²⁰⁾
 Note 6: β_{ed} can not be set directly; it is set by Absolute Grant Value.²¹⁾

Table 7: Subtests for UMTS Release 6 HSUPA

UE E-DCH Category	Maximum E-DCH Codes Transmitted	Number of HARQ Processes	E-DCH TTI(ms)	Minimum 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
6 (No DPDCH)	4	8	10	2SF2&2SF	11484	5.76
	4	4	2	4	20000	2.00
7 (No DPDCH)	4	8	2	2SF2&2SF	22996	?
	4	4	10	4	20000	?

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

Table 8: HSUPA UE category

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



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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 9 : settings of required H-Set 12 QPSK acc. To 3GPP 34.121

Note:

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

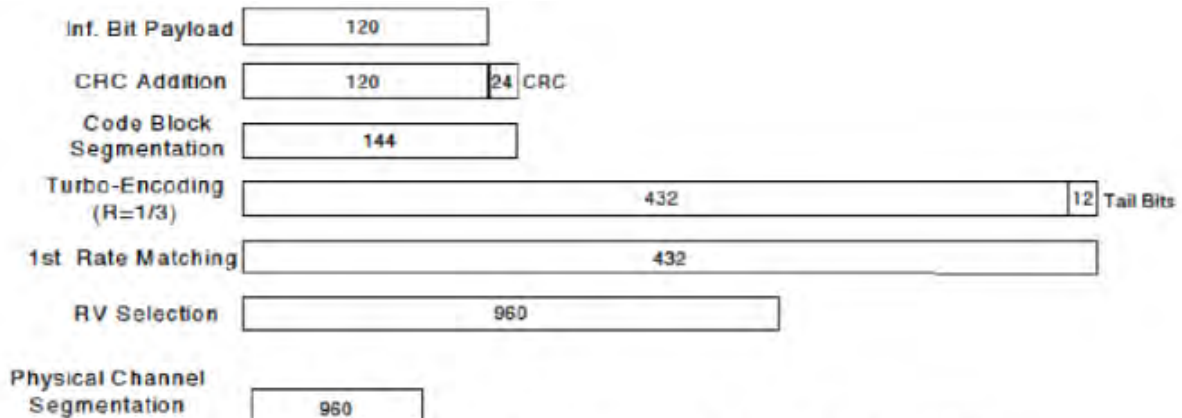


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)



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

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

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

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

Note:

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



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d) HSPA+

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
Note 1: Δ_{ACK}, Δ_{NACK} and Δ_{CQI} = 30/15 with $\beta_{HS} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: DPDCH is not configured, therefore the β_c is set to 1 and β_d = 0 by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. 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.											



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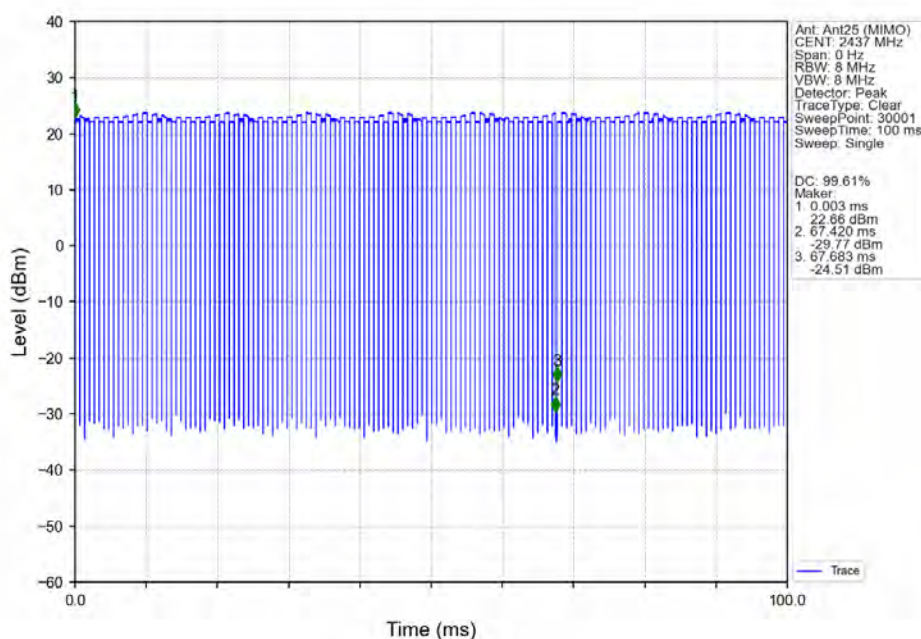
7.2.3 WIFI Test Configuration

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

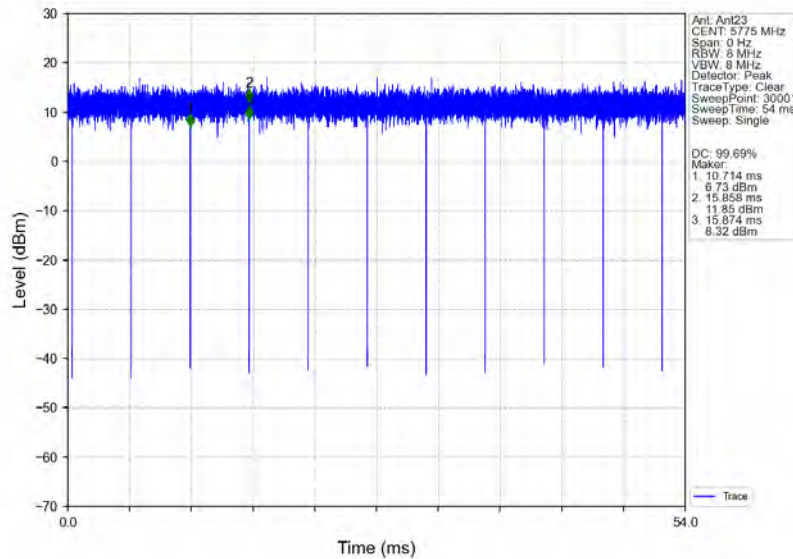
1) Wi-Fi 2.4GHz 802.11b:

Duty cycle=99.61%



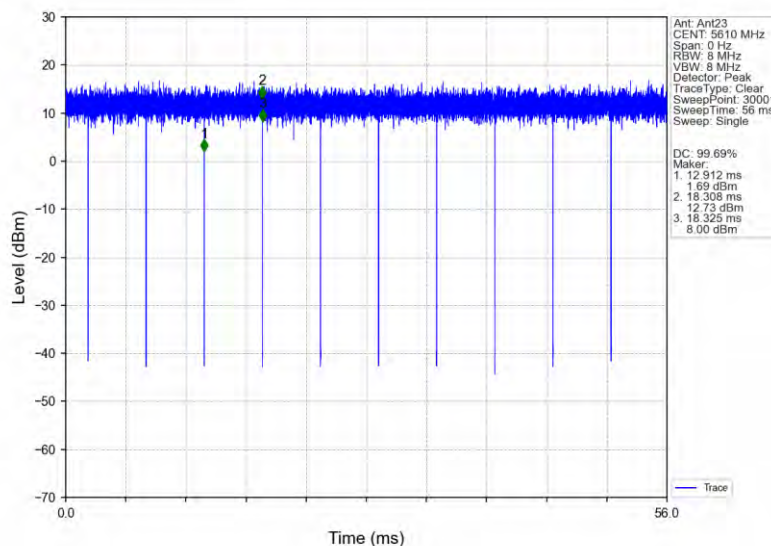
2) Wi-Fi 5GHz 802.11n40:

Duty cycle=99.69%



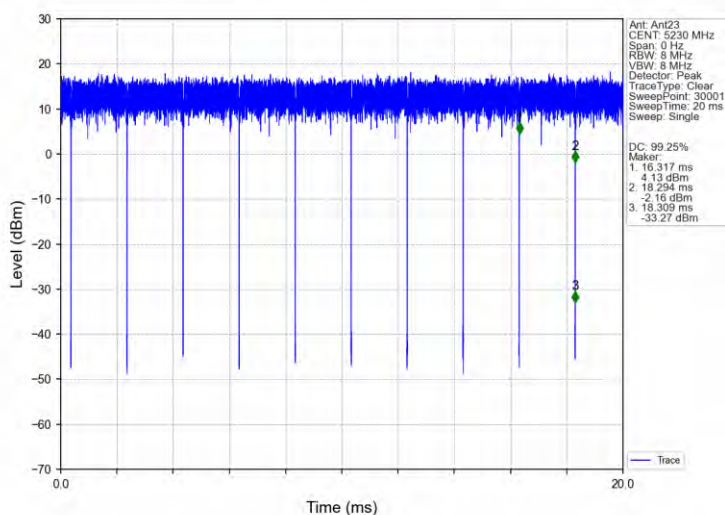
3) Wi-Fi 5GHz 802.11ac80:

Duty cycle=99.69%



4) Wi-Fi 5GHz 802.11a:

Duty cycle=99.25%



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 Subsequent Test Configuration Procedures

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

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



7.2.3.4 2.4 GHz WiFi SAR Procedures

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

• 802.11b DSSS SAR Test Requirements

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

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

• 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

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

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

• SAR Test Requirements for OFDM configurations

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



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7.2.3.5 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.



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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7.2.4 LTE Test Configuration

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

TDD LTE test consideration

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

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

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

Frame structure type 2:

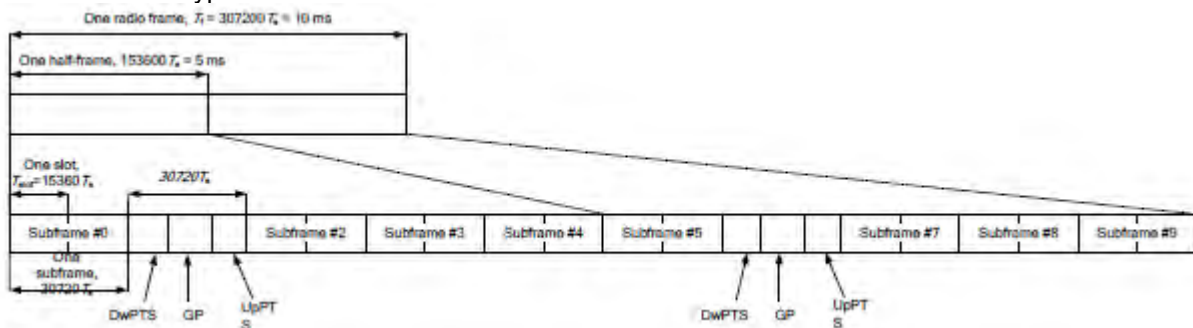


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

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	4384.Ts	5120.Ts	7680.Ts	4384.Ts	5120.Ts
5	6592.Ts			20480.Ts		
6	19760.Ts			23040.Ts		

7	21952.Ts			25600.Ts		
8	24144.Ts			-	-	-
9	13168.Ts			-	-	-

Table 4.2-2: 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

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



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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 $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

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



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F) LTE CA additional specification

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

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

The possible downlink and uplink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The conducted power measurement results of downlink and uplink LTE CA are provided in Appendix E (Conducted RF Output Power). The downlink LTE CA SAR test is not required since the maximum output power for downlink LTE CA was not more than 0.25dB higher than the maximum output power for without downlink LTE CA.

Downlink LTE CA
CA_5B
CA_7C
CA_38C
CA_41C
CA_7B
CA_5A-5A
CA_7A-7A
CA_41A-41A
CA_5A-7A
CA_7A-26A
CA_26A-41A
CA_66C
CA_66B
CA_2A-2A
CA_4A-4A
CA_66A-66A
CA_2A-4A
CA_2A-5A
CA_2A-7A
CA_2A-26A
CA_2A-38A
CA_2A-66A
CA_4A-5A
CA_4A-7A
CA_5A-38A
CA_5A-41A
CA_5A-66A
CA_7A-66A
CA_38A-66A

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CA_42A-42A
CA_7A-42A
CA_2C
CA_42C
CA_41A-41A-41A
CA_7C-26A
CA_41D
CA_2A-4A-5A
CA_2A-4A-7A
CA_2A-5A-7A
CA_2A-5A-66A
CA_2A-7A-7A
CA_2A-7A-66A
CA_4A-4A-5A
CA_4A-4A-7A
CA_5A-7A-7A
CA_5A-7A-66A
CA_5A-66A-66A
CA_7A-7A-66A
CA_7A-66A-66A
CA_2A-7C
CA_4A-7C
CA_5A-7C
CA_5A-66C
CA_2A-7A-38A
CA_41A-41C
CA_7C-66A
CA_5A-7C-66A
CA_5A-7A-66A-66A
CA_7C-66A-66A
CA_2A-7C-38A
CA_41C-41D
CA_5A-7C-66A-66A
Uplink LTE CA
CA_7C
CA_41C

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

1)Maximum output power is measured for each UL CA configuration for the required test channels described in KDB 941225 D05

- UL PCC configuration is determined by the required test channel



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- SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band.

2)SAR for UL CA is required in each exposure condition and frequency band combination

3)For this device , as the maximum output for Intra-band uplink LTE CA is $\leq$ standalone LTE mode (without CA),

- PCC is configured according to the highest standalone SAR configuration tested.

- SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC

4)When the reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)

5)UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level.

6)General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. All LTE bandwidth conducted powers needed for PCC uplink configuration selection can be found in appendix E. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.

- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.

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



DL CA Power Measurement Setup

c) Inter-band carrier aggregation requirements for uplink.

1. For Inter-band uplink CA mode, Qualcomm 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.



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The Inter band Uplink CA as below table:

LTE Band/Antenna		B7			
		Ant41	Ant14	Ant12	Ant24
B5	Ant31	√	√	√	√
	Ant11	√	√	√	√

NR UL Band/Antenna		n78			
		Ant14	Ant23	Ant13	Ant21
n5	Ant31	√	√	√	√
	Ant11	√	√	√	√



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7.2.5 NR Band Test Configuration

1. NR Band n2/n5/n7/n26/n66/n38/n41/n77/n78 support SA mode and n2/n5/n7/n26/n66/n38/n41/n77/n78 support NSA mode. LTE+NR Band operations are possible only with LTE under EN-DC mode and the operations are possible as following table:

Band/Antenna	LTE Band 2				LTE Band 4				LTE Band 5		LTE Band 7				LTE Band 26		LTE Band 38				LTE Band 41				LTE Band 66			
	Ant41	Ant14	Ant12	Ant24	Ant41	Ant14	Ant12	Ant24	Ant31	Ant11	Ant41	Ant14	Ant12	Ant24	Ant31	Ant11	Ant41	Ant14	Ant12	Ant24	Ant41	Ant14	Ant12	Ant24	Ant41	Ant14	Ant12	Ant24
n2	Ant41																											
	Ant14																											
	Ant12					√	√					√	√												√	√		
	Ant24					√	√					√	√												√	√		
n5	Ant31											√	√	√	√													
	Ant11											√	√	√	√													
n7	Ant41								√	√																		
	Ant14								√	√																		
	Ant12	√	√			√	√		√	√															√	√		
	Ant24	√	√			√	√		√	√															√	√		
n26	Ant31											√	√	√	√													
	Ant11											√	√	√	√													
n38	Ant41																											
	Ant14																											
	Ant12					√	√																		√	√		
	Ant24					√	√																		√	√		
n41	Ant41														√	√												
	Ant14														√	√												
	Ant12					√									√	√									√	√		
	Ant24					√									√	√									√	√		
n66	Ant41								√	√																		
	Ant14								√	√																		
	Ant12	√	√						√	√	√	√																
	Ant24	√	√						√	√	√	√																
n77	Ant14										√		√	√														
	Ant23										√		√	√														
	Ant13										√		√	√														
	Ant21										√		√	√														
n78	Ant14	√		√	√	√		√	√	√	√	√	√	√			√		√	√	√		√	√	√		√	√
	Ant23	√		√	√	√		√	√	√	√	√	√	√			√		√	√	√		√	√	√		√	√
	Ant13	√		√	√	√		√	√	√	√	√	√	√			√		√	√	√		√	√	√		√	√
	Ant21	√		√	√	√		√	√	√	√	√	√	√			√		√	√	√		√	√	√		√	√

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

Band		n2	n5	n7	n26	n38	n41	n66	n77	n78
NR mode		SA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		NSA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Duty Cycle		100%	100%	100%	100%	100%	100%	100%	100%	

NR band / SCS / UE Channel bandwidth (SA)																
NR Band	SCS kHz	5 MHz	10 MHz	15 MHz	20 MHz	25 MHz	30 MHz	35 MHz	40 MHz	45 MHz	50 MHz	60 MHz	70MHz	80 MHz	90 MHz	100 MHz
n2	15	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n5	15	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n7	15	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n26	15	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n38	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n41	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
n66	15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
n78	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	N/A	Yes	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes

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

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



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4. MPR

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

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
		$\leq 0.5^2$	$\leq 0.5^2$	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 $\leq$ the same UL EN-DC configuration with DL two bands only to qualify for the SAR test exclusion.

7. For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN directly adds the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed regulatory limit.

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.



7.2.6 Duty Cycle technology is applied to NR TDD and LTE TDD frequency band

Duty Cycle technology is applied to NR TDD and LTE TDD frequency band, and the conducted power under specific Duty Cycle is compensated according to the case of different Duty Cycle stages.

In this report for LTE TDD band config1 to 6 mode average power is not more than Config 0 mode average power of 0.25dB and above, and the 1-g reported SAR is ≤ 1.2 W/kg or 10-g reported SAR is ≤ 3.0 W/kg, only the SAR of Config 0 mode will be tested.

LTE TDD duty cycle								
Band	Ant.	Power Level	Max UL duty cycle	Max UL duty cycle factor	P _{cmx} (dBm)	P _{limt} (dBm)	P _{cmx} Frame-Averaged(dBm)	SAR test
LTE B38	Ant 31	DSI 2/3	11.67%	-9.33	24.00	24.00	14.67	No
			21.67%	-6.64	24.00	24.00	17.36	No
			23.33%	-6.32	24.00	24.00	17.68	No
			31.67%	-4.99	24.00	24.00	19.01	No
			43.33%	-3.63	24.00	24.00	20.37	No
			53.33%	-2.73	24.00	24.00	21.27	No
LTE B38	Ant 31	DSI 4/7	63.33%	-1.98	24.00	24.00	22.02	Yes
			11.67%	-9.33	24.00	23.00	14.67	No
			21.67%	-6.64	24.00	23.00	17.36	No
			23.33%	-6.32	24.00	23.00	17.68	No
			31.67%	-4.99	24.00	23.00	19.01	No
			43.33%	-3.63	24.00	23.00	20.37	No
			53.33%	-2.73	24.00	23.00	21.27	No
			63.33%	-1.98	24.00	23.00	22.02	Yes

In this report for NR TDD band the max tune-up power under each duty cycle is uniformly converted into the signaling average power under 100% duty cycle. The signaling average power is not more than 100% Duty Cycle FTM mode power of 0.25dB and above, and the 1-g reported SAR is ≤ 1.2 W/kg or 10-g reported SAR is ≤ 3.0 W/kg, only the SAR of 100% Duty Cycle FTM mode will be tested.

SA NR TDD duty cycle								
Band	Ant.	Power Level	Max UL duty cycle	Max UL duty cycle factor	P _{cmx} (dBm)	P _{limt} (dBm)	P _{cmx} Frame-Averaged(dBm)	SAR test
N38	Ant 12	DSI 2	21.40%	-6.70	24.00	20.00	17.30	No
			41.40%	-3.83	23.83	20.00	20.00	No
			61.40%	-2.12	22.12	20.00	20.00	No
			100.00%	0.00	20.00	20.00	20.00	Yes
N38	Ant 12	DSI 3/5/6	21.40%	-6.70	24.00	19.50	17.30	No
			41.40%	-3.83	23.33	19.50	19.50	No
			61.40%	-2.12	21.62	19.50	19.50	No
			100.00%	0.00	19.50	19.50	19.50	Yes
N38	Ant 12	DSI 4	21.40%	-6.70	24.00	21.00	17.30	No
			41.40%	-3.83	24.00	21.00	20.17	No
			61.40%	-2.12	23.12	21.00	21.00	No
			100.00%	0.00	21.00	21.00	21.00	Yes

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:

$$\text{Frame-averaged power} = 10 \times \log (\text{Burst-averaged power mW} \times \text{Slot used} / 8).$$

- 3) . When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ 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

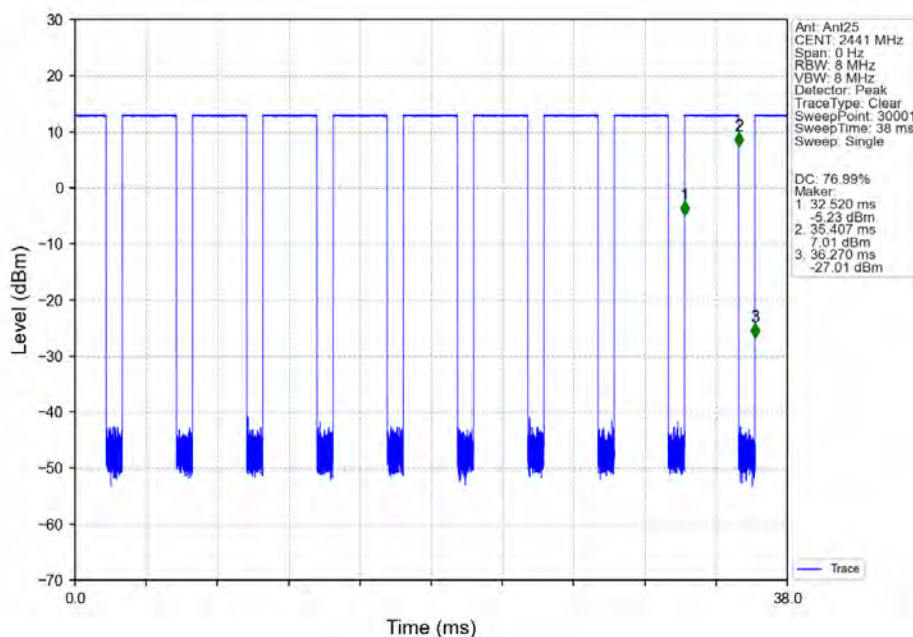


measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.

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.

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=76.99%



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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

GSM850 SAR Test Record											
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	GPRS 2TS	190/836.6	1:4.15	0.100	0.066	0.09	31.09	32.00	1.233	0.123	22.4
Left tilted	GPRS 2TS	190/836.6	1:4.15	0.051	0.037	-0.02	31.09	32.00	1.233	0.063	22.4
Right cheek	GPRS 2TS	190/836.6	1:4.15	0.129	0.096	0.02	31.09	32.00	1.233	0.159	22.4
Right tilted	GPRS 2TS	190/836.6	1:4.15	0.079	0.058	-0.04	31.09	32.00	1.233	0.097	22.4
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	190/836.6	1:4.15	0.083	0.054	0.15	31.09	32.00	1.233	0.102	22.4
Back side	GPRS 2TS	190/836.6	1:4.15	0.116	0.073	-0.04	31.09	32.00	1.233	0.143	22.4
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 4TS	190/836.6	1:2.075	0.088	0.056	-0.02	25.12	27.00	1.542	0.136	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.136	0.082	0.13	25.12	27.00	1.542	0.210	22.4
Right side	GPRS 4TS	190/836.6	1:2.075	0.095	0.064	0.10	25.12	27.00	1.542	0.146	22.4
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.065	0.039	-0.02	25.12	27.00	1.542	0.100	22.4
Ant 11 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.567	0.329	0.09	27.05	28.00	1.245	0.706	22.4
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.104	0.070	-0.19	27.05	28.00	1.245	0.129	22.4
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.315	0.174	-0.05	27.05	28.00	1.245	0.392	22.4
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.101	0.064	-0.11	27.05	28.00	1.245	0.126	22.4
Head Test Data DSI 3											
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.567	0.329	0.09	27.05	27.00	0.989	0.561	22.4
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.104	0.070	-0.19	27.05	27.00	0.989	0.103	22.4
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.315	0.174	-0.05	27.05	27.00	0.989	0.311	22.4
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.101	0.064	-0.11	27.05	27.00	0.989	0.100	22.4
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	190/836.6	1:4.15	0.302	0.208	-0.14	31.00	32.00	1.259	0.380	22.4
Back side	GPRS 2TS	190/836.6	1:4.15	0.401	0.272	0.01	31.00	32.00	1.259	0.505	22.4
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 4TS	190/836.6	1:2.075	0.265	0.157	-0.16	25.80	26.60	1.202	0.319	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.314	0.183	-0.19	25.80	26.60	1.202	0.378	22.4
Left side	GPRS 4TS	190/836.6	1:2.075	0.639	0.392	-0.05	25.80	26.60	1.202	0.768	22.4
Bottom side	GPRS 4TS	190/836.6	1:2.075	0.060	0.028	0.03	25.80	26.60	1.202	0.072	22.4



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8.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record											
Ant 41 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	GPRS 2TS	661/1880	1:4.15	0.058	0.036	-0.06	27.95	29.00	1.274	0.074	22.1
Left tilted	GPRS 2TS	661/1880	1:4.15	0.040	0.018	-0.15	27.95	29.00	1.274	0.051	22.1
Right cheek	GPRS 2TS	661/1880	1:4.15	0.050	0.031	0.04	27.95	29.00	1.274	0.064	22.1
Right tilted	GPRS 2TS	661/1880	1:4.15	0.038	0.016	0.11	27.95	29.00	1.274	0.048	22.1
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	661/1880	1:4.15	0.150	0.086	-0.03	27.95	29.00	1.274	0.191	22.1
Back side	GPRS 2TS	661/1880	1:4.15	0.178	0.106	-0.01	27.95	29.00	1.274	0.227	22.1
Hotspot Test data(Separate 10mm) DSI 10											
Front side	GPRS 4TS	661/1880	1:2.075	0.209	0.116	-0.07	23.86	25.00	1.300	0.272	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.233	0.122	-0.06	23.86	25.00	1.300	0.303	22.1
Left side	GPRS 4TS	661/1880	1:2.075	0.088	0.051	0.03	23.86	25.00	1.300	0.114	22.1
Bottom side	GPRS 4TS	661/1880	1:2.075	0.361	0.200	0.01	23.86	25.00	1.300	0.469	22.1
Ant 14 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	GPRS 4TS	661/1880	1:2.075	0.267	0.175	-0.02	20.82	22.30	1.406	0.375	22.1
Left tilted	GPRS 4TS	661/1880	1:2.075	0.345	0.210	-0.09	20.82	22.30	1.406	0.485	22.1
Right cheek	GPRS 4TS	661/1880	1:2.075	0.473	0.258	0.10	20.82	22.30	1.406	0.665	22.1
Right tilted	GPRS 4TS	661/1880	1:2.075	0.464	0.230	-0.01	20.82	22.30	1.406	0.652	22.1
Body worn Test data(Separate 15mm) DSI 4											
Front side	GPRS 2TS	661/1880	1:4.15	0.092	0.055	0.17	26.61	28.30	1.476	0.136	22.1
Back side	GPRS 2TS	661/1880	1:4.15	0.104	0.066	0.11	26.61	28.30	1.476	0.153	22.1
Hotspot Test data(Separate 10mm) DSI 9											
Front side	GPRS 4TS	661/1880	1:2.075	0.084	0.050	-0.16	20.82	22.30	1.406	0.118	22.1
Back side	GPRS 4TS	661/1880	1:2.075	0.114	0.067	-0.10	20.82	22.30	1.406	0.160	22.1
Left side	GPRS 4TS	661/1880	1:2.075	0.064	0.035	-0.17	20.82	22.30	1.406	0.090	22.1
Top side	GPRS 4TS	661/1880	1:2.075	0.165	0.093	-0.06	20.82	22.30	1.406	0.232	22.1



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8.2.3 SAR Result of WCDMA Band II

WB2 SAR Test Record											
Ant 41 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	9400/1880	1:1	0.090	0.057	0.03	23.96	24.30	1.081	0.097	22.1
Left tilted	RMC	9400/1880	1:1	0.058	0.036	0.04	23.96	24.30	1.081	0.063	22.1
Right cheek	RMC	9400/1880	1:1	0.078	0.048	-0.14	23.96	24.30	1.081	0.084	22.1
Right tilted	RMC	9400/1880	1:1	0.054	0.031	-0.07	23.96	24.30	1.081	0.058	22.1
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	9400/1880	1:1	0.149	0.088	0.02	22.29	22.30	1.002	0.149	22.1
Back side	RMC	9400/1880	1:1	0.201	0.116	0.09	22.29	22.30	1.002	0.201	22.1
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	9400/1880	1:1	0.187	0.106	0.11	20.78	20.80	1.005	0.188	22.1
Back side	RMC	9400/1880	1:1	0.275	0.150	0.08	20.78	20.80	1.005	0.276	22.1
Left side	RMC	9400/1880	1:1	0.099	0.054	-0.18	20.78	20.80	1.005	0.099	22.1
Bottom side	RMC	9400/1880	1:1	0.323	0.180	0.08	20.78	20.80	1.005	0.324	22.1
Ant 14 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	9400/1880	1:1	0.234	0.155	-0.19	17.12	18.10	1.253	0.293	22.1
Left tilted	RMC	9400/1880	1:1	0.288	0.174	-0.08	17.12	18.10	1.253	0.361	22.1
Right cheek	RMC	9400/1880	1:1	0.473	0.263	0.08	17.12	18.10	1.253	0.593	22.1
Right tilted	RMC	9400/1880	1:1	0.404	0.206	0.08	17.12	18.10	1.253	0.506	22.1
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	9400/1880	1:1	0.165	0.101	0.04	23.03	23.60	1.140	0.188	22.1
Back side	RMC	9400/1880	1:1	0.266	0.162	0.02	23.03	23.60	1.140	0.303	22.1
Hotspot Test data(Separate 10mm) DSI 9											
Front side	RMC	9400/1880	1:1	0.167	0.101	-0.01	19.54	20.10	1.138	0.190	22.1
Back side	RMC	9400/1880	1:1	0.233	0.135	-0.19	19.54	20.10	1.138	0.265	22.1
Left side	RMC	9400/1880	1:1	0.082	0.054	0.19	19.54	20.10	1.138	0.093	22.1
Top side	RMC	9400/1880	1:1	0.251	0.139	-0.18	19.54	20.10	1.138	0.286	22.1



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8.2.4 SAR Result of WCDMA Band IV

WB4 SAR Test Record											
Ant 41 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	1412/1732.4	1:1	0.096	0.061	0.10	24.60	25.00	1.096	0.105	22.1
Left tilted	RMC	1412/1732.4	1:1	0.060	0.037	-0.12	24.60	25.00	1.096	0.066	22.1
Right cheek	RMC	1412/1732.4	1:1	0.111	0.069	-0.14	24.60	25.00	1.096	0.122	22.1
Right tilted	RMC	1412/1732.4	1:1	0.077	0.046	-0.16	24.60	25.00	1.096	0.084	22.1
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	1412/1732.4	1:1	0.130	0.078	0.05	21.49	22.00	1.125	0.146	22.1
Back side	RMC	1412/1732.4	1:1	0.172	0.101	-0.15	21.49	22.00	1.125	0.193	22.1
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	1412/1732.4	1:1	0.201	0.117	0.02	20.56	21.00	1.107	0.222	22.1
Back side	RMC	1412/1732.4	1:1	0.299	0.164	-0.11	20.56	21.00	1.107	0.331	22.1
Left side	RMC	1412/1732.4	1:1	0.080	0.044	-0.02	20.56	21.00	1.107	0.089	22.1
Bottom side	RMC	1412/1732.4	1:1	0.384	0.218	0.00	20.56	21.00	1.107	0.425	22.1
Ant 14 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	1412/1732.4	1:1	0.349	0.239	0.15	16.67	17.80	1.297	0.453	22.1
Left tilted	RMC	1412/1732.4	1:1	0.387	0.246	0.02	16.67	17.80	1.297	0.502	22.1
Right cheek	RMC	1412/1732.4	1:1	0.682	0.393	-0.05	16.67	17.80	1.297	0.885	22.1
Right tilted	RMC	1412/1732.4	1:1	0.577	0.297	0.11	16.67	17.80	1.297	0.748	22.1
Right cheek	RMC	1312/1712.4	1:1	0.614	0.355	-0.13	16.60	17.80	1.318	0.809	22.1
Right cheek	RMC	1513/1752.6	1:1	0.709	0.394	0.01	16.71	17.80	1.285	0.911	22.1
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	1412/1732.4	1:1	0.247	0.161	0.02	23.60	24.30	1.175	0.290	22.1
Back side	RMC	1412/1732.4	1:1	0.300	0.197	0.05	23.60	24.30	1.175	0.352	22.1
Hotspot Test data(Separate 10mm) DSI 9											
Front side	RMC	1412/1732.4	1:1	0.177	0.111	0.12	20.12	20.80	1.169	0.207	22.1
Back side	RMC	1412/1732.4	1:1	0.267	0.159	0.03	20.12	20.80	1.169	0.312	22.1
Left side	RMC	1412/1732.4	1:1	0.084	0.045	0.03	20.12	20.80	1.169	0.098	22.1
Top side	RMC	1412/1732.4	1:1	0.330	0.188	-0.07	20.12	20.80	1.169	0.386	22.1

8.2.5 SAR Result of WCDMA Band V

WB5 SAR Test Record											
Ant 31 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	4182/836.4	1:1	0.114	0.078	-0.05	24.36	25.00	1.159	0.132	22
Left tilted	RMC	4182/836.4	1:1	0.061	0.045	0.19	24.36	25.00	1.159	0.071	22
Right cheek	RMC	4182/836.4	1:1	0.148	0.107	0.03	24.36	25.00	1.159	0.171	22
Right tilted	RMC	4182/836.4	1:1	0.086	0.064	-0.01	24.36	25.00	1.159	0.100	22
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	4182/836.4	1:1	0.107	0.070	-0.07	24.36	25.00	1.159	0.124	22
Back side	RMC	4182/836.4	1:1	0.158	0.102	0.04	24.36	25.00	1.159	0.183	22
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	4182/836.4	1:1	0.164	0.105	0.17	23.72	24.50	1.197	0.196	22
Back side	RMC	4182/836.4	1:1	0.253	0.159	-0.18	23.72	24.50	1.197	0.303	22
Right side	RMC	4182/836.4	1:1	0.170	0.114	-0.17	23.72	24.50	1.197	0.203	22
Bottom side	RMC	4182/836.4	1:1	0.122	0.073	-0.14	23.72	24.50	1.197	0.146	22
Ant 11 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data DSI 2											
Left cheek	RMC	4182/836.4	1:1	0.589	0.332	-0.02	23.01	23.50	1.119	0.659	22
Left tilted	RMC	4182/836.4	1:1	0.118	0.083	0.07	23.01	23.50	1.119	0.132	22
Right cheek	RMC	4182/836.4	1:1	0.367	0.209	0.15	23.01	23.50	1.119	0.411	22
Right tilted	RMC	4182/836.4	1:1	0.111	0.075	0.04	23.01	23.50	1.119	0.124	22
Body worn Test data(Separate 15mm) DSI 4											
Front side	RMC	4182/836.4	1:1	0.303	0.186	-0.03	24.51	25.00	1.119	0.339	22
Back side	RMC	4182/836.4	1:1	0.396	0.267	-0.04	24.51	25.00	1.119	0.443	22
Hotspot Test data(Separate 10mm) DSI 10											
Front side	RMC	4182/836.4	1:1	0.257	0.148	-0.06	21.93	22.50	1.140	0.293	22
Back side	RMC	4182/836.4	1:1	0.315	0.180	0.19	21.93	22.50	1.140	0.359	22
Left side	RMC	4182/836.4	1:1	0.533	0.337	-0.02	21.93	22.50	1.140	0.608	22
Bottom side	RMC	4182/836.4	1:1	0.038	0.022	-0.03	21.93	22.50	1.140	0.043	22

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8.2.6 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record												
Ant 41 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	18900/1880	1:1	0.093	0.058	-0.18	24.03	24.30	1.064	0.099	22
Left tilted	20	QPSK 1_50	18900/1880	1:1	0.056	0.034	-0.09	24.03	24.30	1.064	0.060	22
Right cheek	20	QPSK 1_50	18900/1880	1:1	0.079	0.048	0.06	24.03	24.30	1.064	0.084	22
Right tilted	20	QPSK 1_50	18900/1880	1:1	0.057	0.033	0.09	24.03	24.30	1.064	0.061	22
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	19100/1900	1:1	0.079	0.050	-0.12	22.65	23.30	1.161	0.092	22
Left tilted	20	QPSK 50_25	19100/1900	1:1	0.051	0.031	-0.06	22.65	23.30	1.161	0.059	22
Right cheek	20	QPSK 50_25	19100/1900	1:1	0.067	0.041	0.17	22.65	23.30	1.161	0.078	22
Right tilted	20	QPSK 50_25	19100/1900	1:1	0.046	0.028	-0.02	22.65	23.30	1.161	0.053	22
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	19100/1900	1:1	0.132	0.078	-0.13	21.68	22.80	1.294	0.171	22
Back side	20	QPSK 1_50	19100/1900	1:1	0.178	0.038	-0.04	21.68	22.80	1.294	0.230	22
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	19100/1900	1:1	0.126	0.074	-0.07	21.71	22.80	1.285	0.162	22
Back side	20	QPSK 50_25	19100/1900	1:1	0.175	0.102	0.08	21.71	22.80	1.285	0.225	22
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	18900/1880	1:1	0.198	0.111	0.07	20.95	21.80	1.216	0.241	22
Back side	20	QPSK 1_50	18900/1880	1:1	0.270	0.149	0.17	20.95	21.80	1.216	0.328	22
Left side	20	QPSK 1_50	18900/1880	1:1	0.091	0.051	0.07	20.95	21.80	1.216	0.111	22
Bottom side	20	QPSK 1_50	18900/1880	1:1	0.355	0.196	-0.06	20.95	21.80	1.216	0.432	22
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	19100/1900	1:1	0.165	0.093	-0.11	20.70	21.80	1.288	0.213	22
Back side	20	QPSK 50_25	19100/1900	1:1	0.234	0.127	0.18	20.70	21.80	1.288	0.301	22
Left side	20	QPSK 50_25	19100/1900	1:1	0.069	0.039	0.19	20.70	21.80	1.288	0.089	22
Bottom side	20	QPSK 50_25	19100/1900	1:1	0.304	0.163	0.09	20.70	21.80	1.288	0.392	22
Ant 14 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	19100/1900	1:1	0.215	0.144	0.14	17.90	18.60	1.175	0.253	22
Left tilted	20	QPSK 1_50	19100/1900	1:1	0.263	0.157	-0.19	17.90	18.60	1.175	0.309	22
Right cheek	20	QPSK 1_50	19100/1900	1:1	0.489	0.262	-0.06	17.90	18.60	1.175	0.575	22
Right tilted	20	QPSK 1_50	19100/1900	1:1	0.386	0.197	0.07	17.90	18.60	1.175	0.454	22
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	19100/1900	1:1	0.222	0.148	0.15	17.93	18.60	1.167	0.259	22
Left tilted	20	QPSK 50_25	19100/1900	1:1	0.269	0.162	0.07	17.93	18.60	1.167	0.314	22
Right cheek	20	QPSK 50_25	19100/1900	1:1	0.505	0.272	-0.02	17.93	18.60	1.167	0.589	22
Right tilted	20	QPSK 50_25	19100/1900	1:1	0.394	0.200	-0.14	17.93	18.60	1.167	0.460	22



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Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	19100/1900	1:1	0.155	0.094	-0.09	22.42	23.60	1.312	0.203	22
Back side	20	QPSK 1_50	19100/1900	1:1	0.202	0.120	-0.04	22.42	23.60	1.312	0.265	22
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	19100/1900	1:1	0.126	0.077	-0.08	21.55	22.60	1.274	0.160	22
Back side	20	QPSK 50_25	19100/1900	1:1	0.168	0.100	-0.18	21.55	22.60	1.274	0.214	22
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	20	QPSK 1_50	19100/1900	1:1	0.208	0.124	-0.02	20.68	21.60	1.236	0.257	22
Back side	20	QPSK 1_50	19100/1900	1:1	0.293	0.166	0.19	20.68	21.60	1.236	0.362	22
Left side	20	QPSK 1_50	19100/1900	1:1	0.159	0.084	-0.01	20.68	21.60	1.236	0.197	22
Top side	20	QPSK 1_50	19100/1900	1:1	0.322	0.194	0.05	20.68	21.60	1.236	0.398	22
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	20	QPSK 50_25	19100/1900	1:1	0.211	0.127	0.00	20.66	21.60	1.242	0.262	22
Back side	20	QPSK 50_25	19100/1900	1:1	0.293	0.170	-0.03	20.66	21.60	1.242	0.364	22
Left side	20	QPSK 50_25	19100/1900	1:1	0.164	0.087	0.09	20.66	21.60	1.242	0.204	22
Top side	20	QPSK 50_25	19100/1900	1:1	0.328	0.202	0.05	20.66	21.60	1.242	0.407	22
Ant 12 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	19100/1900	1:1	0.120	0.070	-0.16	18.78	19.50	1.180	0.142	22.2
Left tilted	20	QPSK 1_50	19100/1900	1:1	0.053	0.031	0.05	18.78	19.50	1.180	0.063	22.2
Right cheek	20	QPSK 1_50	19100/1900	1:1	0.525	0.248	-0.11	18.78	19.50	1.180	0.620	22.2
Right tilted	20	QPSK 1_50	19100/1900	1:1	0.121	0.063	-0.11	18.78	19.50	1.180	0.143	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	19100/1900	1:1	0.129	0.075	0.16	18.60	19.50	1.230	0.159	22.2
Left tilted	20	QPSK 50_0	19100/1900	1:1	0.055	0.032	0.13	18.60	19.50	1.230	0.068	22.2
Right cheek	20	QPSK 50_0	19100/1900	1:1	0.562	0.258	0.09	18.60	19.50	1.230	0.691	22.2
Right tilted	20	QPSK 50_0	19100/1900	1:1	0.126	0.066	-0.04	18.60	19.50	1.230	0.155	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	19100/1900	1:1	0.100	0.054	-0.16	21.83	22.50	1.167	0.117	22.2
Back side	20	QPSK 1_50	19100/1900	1:1	0.159	0.085	-0.07	21.83	22.50	1.167	0.186	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	19100/1900	1:1	0.101	0.055	0.18	21.79	22.50	1.178	0.119	22.2
Back side	20	QPSK 50_25	19100/1900	1:1	0.165	0.088	0.16	21.79	22.50	1.178	0.194	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	19100/1900	1:1	0.148	0.075	0.18	20.36	21.00	1.159	0.171	22.2
Back side	20	QPSK 1_50	19100/1900	1:1	0.263	0.128	-0.02	20.36	21.00	1.159	0.305	22.2
Left side	20	QPSK 1_50	19100/1900	1:1	0.291	0.141	-0.19	20.36	21.00	1.159	0.337	22.2
Top side	20	QPSK 1_50	19100/1900	1:1	0.042	0.022	0.03	20.36	21.00	1.159	0.049	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	19100/1900	1:1	0.156	0.079	0.05	20.26	21.00	1.186	0.185	22.2
Back side	20	QPSK 50_0	19100/1900	1:1	0.268	0.130	-0.06	20.26	21.00	1.186	0.318	22.2
Left side	20	QPSK 50_0	19100/1900	1:1	0.303	0.148	0.11	20.26	21.00	1.186	0.359	22.2
Top side	20	QPSK 50_0	19100/1900	1:1	0.041	0.021	-0.01	20.26	21.00	1.186	0.049	22.2



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Ant 24 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	18900/1880	1:1	0.421	0.201	0.19	19.89	20.50	1.151	0.484	22.2
Left tilted	20	QPSK 1_50	18900/1880	1:1	0.130	0.062	0.02	19.89	20.50	1.151	0.150	22.2
Right cheek	20	QPSK 1_50	18900/1880	1:1	0.086	0.051	0.19	19.89	20.50	1.151	0.099	22.2
Right tilted	20	QPSK 1_50	18900/1880	1:1	0.044	0.027	0.15	19.89	20.50	1.151	0.051	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	18900/1880	1:1	0.419	0.200	-0.10	19.82	20.50	1.169	0.490	22.2
Left tilted	20	QPSK 50_25	18900/1880	1:1	0.125	0.061	-0.03	19.82	20.50	1.169	0.146	22.2
Right cheek	20	QPSK 50_25	18900/1880	1:1	0.085	0.049	-0.04	19.82	20.50	1.169	0.099	22.2
Right tilted	20	QPSK 50_25	18900/1880	1:1	0.042	0.025	-0.09	19.82	20.50	1.169	0.049	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	18900/1880	1:1	0.016	0.011	0.07	21.37	22.00	1.156	0.019	22.2
Back side	20	QPSK 1_50	18900/1880	1:1	0.020	0.012	0.05	21.37	22.00	1.156	0.023	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	18900/1880	1:1	0.015	0.010	0.17	20.40	21.00	1.148	0.018	22.2
Back side	20	QPSK 50_25	18900/1880	1:1	0.019	0.011	0.13	20.40	21.00	1.148	0.021	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	18900/1880	1:1	0.064	0.034	-0.13	21.37	22.00	1.156	0.074	22.2
Back side	20	QPSK 1_50	18900/1880	1:1	0.099	0.050	0.19	21.37	22.00	1.156	0.114	22.2
Right side	20	QPSK 1_50	18900/1880	1:1	0.084	0.042	-0.06	21.37	22.00	1.156	0.097	22.2
Top side	20	QPSK 1_50	18900/1880	1:1	0.022	0.012	0.03	21.37	22.00	1.156	0.025	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	18900/1880	1:1	0.053	0.028	-0.12	20.40	21.00	1.148	0.061	22.2
Back side	20	QPSK 50_25	18900/1880	1:1	0.083	0.042	0.13	20.40	21.00	1.148	0.095	22.2
Right side	20	QPSK 50_25	18900/1880	1:1	0.071	0.035	-0.11	20.40	21.00	1.148	0.082	22.2
Top side	20	QPSK 50_25	18900/1880	1:1	0.021	0.011	-0.12	20.40	21.00	1.148	0.024	22.2



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8.2.7 SAR Result of LTE Band 7

LTE Band 7 SAR Test Record												
Ant 41 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.235	0.127	0.06	24.61	25.00	1.094	0.257	22.1
Left tilted	20	QPSK 1_0	21350/2560	1:1	0.071	0.038	-0.04	24.61	25.00	1.094	0.078	22.1
Right cheek	20	QPSK 1_0	21350/2560	1:1	0.160	0.092	0.07	24.61	25.00	1.094	0.175	22.1
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.150	0.077	-0.15	24.61	25.00	1.094	0.164	22.1
Left cheek	20	QPSK 1_99	21100/2535	1:1	0.166	0.089	0.04	23.50	25.00	1.413	0.234	21.1
		QPSK 1_0	21298/2554.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	21350/2560	1:1	0.196	0.106	-0.04	23.29	24.00	1.178	0.231	22.1
Left tilted	20	QPSK 50_50	21350/2560	1:1	0.057	0.031	-0.03	23.29	24.00	1.178	0.067	22.1
Right cheek	20	QPSK 50_50	21350/2560	1:1	0.136	0.077	0.17	23.29	24.00	1.178	0.160	22.1
Right tilted	20	QPSK 50_50	21350/2560	1:1	0.123	0.064	-0.17	23.29	24.00	1.178	0.145	22.1
Body worn Test data (Separate 15mm 1RB) DSI4												
Front side	20	QPSK 1_0	21350/2560	1:1	0.149	0.080	0.12	20.72	21.00	1.067	0.159	22.1
Back side	20	QPSK 1_0	21350/2560	1:1	0.187	0.100	0.01	20.72	21.00	1.067	0.199	22.1
Back side	20	QPSK 1_99	21100/2535	1:1	0.154	0.078	-0.01	20.23	21.00	1.194	0.184	21.1
		QPSK 1_0	21298/2554.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	21350/2560	1:1	0.155	0.083	0.09	20.49	21.00	1.125	0.174	22.1
Back side	20	QPSK 50_25	21350/2560	1:1	0.197	0.105	0.18	20.49	21.00	1.125	0.222	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	21350/2560	1:1	0.189	0.096	0.15	19.06	19.50	1.107	0.209	22.1
Back side	20	QPSK 1_0	21350/2560	1:1	0.247	0.120	0.12	19.06	19.50	1.107	0.273	22.1
Left side	20	QPSK 1_0	21350/2560	1:1	0.061	0.032	-0.09	19.06	19.50	1.107	0.068	22.1
Bottom side	20	QPSK 1_0	21350/2560	1:1	0.427	0.217	-0.07	19.06	19.50	1.107	0.473	22.1
Bottom side	20	QPSK 1_99	21100/2535	1:1	0.331	0.189	-0.19	18.56	19.50	1.242	0.411	22.1
		QPSK 1_0	21298/2554.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_25	21350/2560	1:1	0.181	0.094	-0.07	19.14	19.50	1.086	0.197	22.1
Back side	20	QPSK 50_25	21350/2560	1:1	0.250	0.123	0.11	19.14	19.50	1.086	0.272	22.1
Left side	20	QPSK 50_25	21350/2560	1:1	0.060	0.032	0.06	19.14	19.50	1.086	0.065	22.1
Bottom side	20	QPSK 50_25	21350/2560	1:1	0.429	0.207	0.05	19.14	19.50	1.086	0.466	22.1
Ant 14 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	20850/2510	1:1	0.172	0.096	0.02	15.74	16.20	1.112	0.191	22.1



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Left tilted	20	QPSK 1_50	20850/2510	1:1	0.187	0.094	-0.07	15.74	16.20	1.112	0.208	22.1
Right cheek	20	QPSK 1_50	20850/2510	1:1	0.498	0.232	0.15	15.74	16.20	1.112	0.554	22.1
Right tilted	20	QPSK 1_50	20850/2510	1:1	0.362	0.168	0.16	15.74	16.20	1.112	0.402	22.1
Right cheek	20	QPSK 1_99	20850/2510	1:1	0.432	0.194	-0.04	15.20	16.20	1.259	0.544	22.1
		QPSK 1_0	21048/2529.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.178	0.098	0.07	15.50	16.20	1.175	0.209	22.1
Left tilted	20	QPSK 50_0	20850/2510	1:1	0.189	0.096	0.12	15.50	16.20	1.175	0.222	22.1
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.527	0.256	0.06	15.50	16.20	1.175	0.619	22.1
Right tilted	20	QPSK 50_0	20850/2510	1:1	0.374	0.174	-0.06	15.50	16.20	1.175	0.439	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	20850/2510	1:1	0.267	0.143	-0.19	23.70	24.70	1.259	0.336	22.1
Back side	20	QPSK 1_50	20850/2510	1:1	0.314	0.167	0.11	23.70	24.70	1.259	0.395	22.1
Back side	20	QPSK 1_99	20850/2510	1:1	0.257	0.116	-0.19	22.90	24.70	1.514	0.389	22.1
	20	QPSK 1_0	21048/2529.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	21350/2560	1:1	0.243	0.128	0.17	22.77	23.70	1.239	0.301	22.1
Back side	20	QPSK 50_25	21350/2560	1:1	0.287	0.151	0.14	22.77	23.70	1.239	0.356	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	20	QPSK 1_0	21100/2535	1:1	0.146	0.074	-0.04	18.05	18.70	1.161	0.170	22.1
Back side	20	QPSK 1_0	21100/2535	1:1	0.190	0.091	0.11	18.05	18.70	1.161	0.221	22.1
Left side	20	QPSK 1_0	21100/2535	1:1	0.078	0.038	0.18	18.05	18.70	1.161	0.091	22.1
Top side	20	QPSK 1_0	21100/2535	1:1	0.221	0.102	-0.11	18.05	18.70	1.161	0.257	22.1
Top side	20	QPSK 1_99	20850/2510	1:1	0.154	0.086	-0.07	17.33	18.70	1.371	0.211	22.1
		QPSK 1_0	21048/2529.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	20	QPSK 50_0	20850/2510	1:1	0.149	0.077	-0.13	17.98	18.70	1.180	0.176	22.1
Back side	20	QPSK 50_0	20850/2510	1:1	0.188	0.097	0.04	17.98	18.70	1.180	0.222	22.1
Left side	20	QPSK 50_0	20850/2510	1:1	0.104	0.051	0.14	17.98	18.70	1.180	0.123	22.1
Top side	20	QPSK 50_0	20850/2510	1:1	0.204	0.098	0.11	17.98	18.70	1.180	0.241	22.1
Ant 12 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_99	21350/2560	1:1	0.141	0.079	0.06	16.21	16.70	1.119	0.158	22.4
Left tilted	20	QPSK 1_99	21350/2560	1:1	0.063	0.036	0.04	16.21	16.70	1.119	0.071	22.4
Right cheek	20	QPSK 1_99	21350/2560	1:1	0.597	0.261	0.07	16.21	16.70	1.119	0.668	22.4
Right tilted	20	QPSK 1_99	21350/2560	1:1	0.155	0.077	0.09	16.21	16.70	1.119	0.174	22.4
Right cheek	20	QPSK 1_99	20850/2510	1:1	0.498	0.168	-0.09	15.78	16.70	1.236	0.616	22.4
		QPSK 1_0	21048/2529.8									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.148	0.083	-0.10	16.17	16.70	1.130	0.167	22.4
Left tilted	20	QPSK 50_0	20850/2510	1:1	0.076	0.042	0.04	16.17	16.70	1.130	0.086	22.4
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.654	0.287	0.10	16.17	16.70	1.130	0.739	22.4



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Right tilted	20	QPSK 50_0	20850/2510	1:1	0.193	0.094	0.08	16.17	16.70	1.130	0.218	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	20850/2510	1:1	0.115	0.061	0.12	19.05	19.70	1.161	0.134	22.4
Back side	20	QPSK 1_50	20850/2510	1:1	0.180	0.091	0.09	19.05	19.70	1.161	0.209	22.4
Back side	20	QPSK 1_99	20850/2510	1:1	0.133	0.052	-0.18	18.72	19.70	1.253	0.167	22.4
		QPSK 1_0	21048/2529.8									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	20850/2510	1:1	0.119	0.062	-0.19	18.98	19.70	1.180	0.140	22.4
Back side	20	QPSK 50_0	20850/2510	1:1	0.185	0.094	0.09	18.98	19.70	1.180	0.218	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	21100/2535	1:1	0.161	0.079	0.11	17.63	18.20	1.140	0.184	22.4
Back side	20	QPSK 1_99	21100/2535	1:1	0.267	0.128	-0.16	17.63	18.20	1.140	0.304	22.4
Left side	20	QPSK 1_99	21100/2535	1:1	0.257	0.120	0.06	17.63	18.20	1.140	0.293	22.4
Top side	20	QPSK 1_99	21100/2535	1:1	0.048	0.025	0.16	17.63	18.20	1.140	0.055	22.4
Back side	20	QPSK 1_99	20850/2510	1:1	0.223	0.089	-0.19	17.26	18.20	1.242	0.277	22.4
		QPSK 1_0	21048/2529.8									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	20850/2510	1:1	0.175	0.085	-0.01	17.66	18.20	1.132	0.198	22.4
Back side	20	QPSK 50_0	20850/2510	1:1	0.297	0.139	0.13	17.66	18.20	1.132	0.336	22.4
Left side	20	QPSK 50_0	20850/2510	1:1	0.297	0.137	-0.02	17.66	18.20	1.132	0.336	22.4
Top side	20	QPSK 50_0	20850/2510	1:1	0.044	0.023	-0.12	17.66	18.20	1.132	0.050	22.4
Ant 24 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.611	0.263	0.19	15.83	15.90	1.016	0.621	22.4
Left tilted	20	QPSK 1_0	21350/2560	1:1	0.297	0.128	-0.07	15.83	15.90	1.016	0.302	22.4
Right cheek	20	QPSK 1_0	21350/2560	1:1	0.149	0.074	0.08	15.83	15.90	1.016	0.151	22.4
Right tilted	20	QPSK 1_0	21350/2560	1:1	0.108	0.053	-0.18	15.83	15.90	1.016	0.110	22.4
Left cheek	20	QPSK 1_0	21350/2560	1:1	0.516	0.114	-0.04	15.23	15.90	1.167	0.602	22.4
		QPSK 1_99	21152/2540.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	20850/2510	1:1	0.650	0.279	0.15	15.87	15.90	1.007	0.655	22.4
Left tilted	20	QPSK 50_0	20850/2510	1:1	0.253	0.117	-0.18	15.87	15.90	1.007	0.255	22.4
Right cheek	20	QPSK 50_0	20850/2510	1:1	0.144	0.074	-0.19	15.87	15.90	1.007	0.145	22.4
Right tilted	20	QPSK 50_0	20850/2510	1:1	0.095	0.048	0.00	15.87	15.90	1.007	0.096	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	21350/2560	1:1	0.136	0.067	-0.07	19.80	19.90	1.023	0.139	22.4
Back side	20	QPSK 1_0	21350/2560	1:1	0.192	0.096	0.17	19.80	19.90	1.023	0.196	22.4
Back side	20	QPSK 1_0	21350/2560	1:1	0.098	0.046	-0.18	19.30	19.90	1.148	0.113	22.4
		QPSK 1_99	21152/2540.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_0	20850/2510	1:1	0.122	0.062	-0.15	19.74	19.90	1.038	0.127	22.4
Back side	20	QPSK 50_0	20850/2510	1:1	0.163	0.085	0.00	19.74	19.90	1.038	0.169	22.4



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Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	20850/2510	1:1	0.176	0.085	0.05	18.68	18.90	1.052	0.185	22.4
Back side	20	QPSK 1_0	20850/2510	1:1	0.236	0.112	-0.15	18.68	18.90	1.052	0.248	22.4
Right side	20	QPSK 1_0	20850/2510	1:1	0.266	0.124	0.08	18.68	18.90	1.052	0.280	22.4
Top side	20	QPSK 1_0	20850/2510	1:1	0.057	0.029	0.09	18.68	18.90	1.052	0.060	22.4
Right side	20	QPSK 1_0	21350/2560	1:1	0.198	0.098	-0.07	18.22	18.90	1.169	0.232	22.4
		QPSK 1_99	21152/2540.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	20850/2510	1:1	0.197	0.096	0.06	18.71	18.90	1.045	0.206	22.4
Back side	20	QPSK 50_0	20850/2510	1:1	0.275	0.130	0.04	18.71	18.90	1.045	0.287	22.4
Right side	20	QPSK 50_0	20850/2510	1:1	0.303	0.142	0.01	18.71	18.90	1.045	0.317	22.4
Top side	20	QPSK 50_0	20850/2510	1:1	0.056	0.028	-0.14	18.71	18.90	1.045	0.059	22.4



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8.2.8 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23130/711	1:1	0.078	0.054	-0.18	23.77	24.50	1.183	0.092	22.3
Left tilted	10	QPSK 1_0	23130/711	1:1	0.030	0.023	-0.13	23.77	24.50	1.183	0.036	22.3
Right cheek	10	QPSK 1_0	23130/711	1:1	0.072	0.052	-0.10	23.77	24.50	1.183	0.085	22.3
Right tilted	10	QPSK 1_0	23130/711	1:1	0.025	0.017	-0.09	23.77	24.50	1.183	0.030	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_13	23060/704	1:1	0.062	0.043	0.18	22.78	23.50	1.180	0.073	22.3
Left tilted	10	QPSK 25_13	23060/704	1:1	0.025	0.015	0.03	22.78	23.50	1.180	0.030	22.3
Right cheek	10	QPSK 25_13	23060/704	1:1	0.057	0.041	0.11	22.78	23.50	1.180	0.067	22.3
Right tilted	10	QPSK 25_13	23060/704	1:1	0.020	0.013	0.17	22.78	23.50	1.180	0.024	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23130/711	1:1	0.095	0.068	-0.11	23.77	24.50	1.183	0.112	22.3
Back side	10	QPSK 1_0	23130/711	1:1	0.119	0.084	0.09	23.77	24.50	1.183	0.141	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_13	23060/704	1:1	0.081	0.057	0.14	22.78	23.50	1.180	0.096	22.3
Back side	10	QPSK 25_13	23060/704	1:1	0.099	0.070	0.01	22.78	23.50	1.180	0.117	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23130/711	1:1	0.092	0.061	-0.02	23.77	24.50	1.183	0.109	22.3
Back side	10	QPSK 1_0	23130/711	1:1	0.131	0.085	-0.11	23.77	24.50	1.183	0.155	22.3
Right side	10	QPSK 1_0	23130/711	1:1	0.181	0.121	-0.19	23.77	24.50	1.183	0.214	22.3
Bottom side	10	QPSK 1_0	23130/711	1:1	0.069	0.037	-0.01	23.77	24.50	1.183	0.082	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_13	23060/704	1:1	0.072	0.052	-0.01	22.78	23.50	1.180	0.085	22.3
Back side	10	QPSK 25_13	23060/704	1:1	0.102	0.066	-0.19	22.78	23.50	1.180	0.120	22.3
Right side	10	QPSK 25_13	23060/704	1:1	0.152	0.102	-0.11	22.78	23.50	1.180	0.179	22.3
Bottom side	10	QPSK 25_13	23060/704	1:1	0.048	0.027	0.14	22.78	23.50	1.180	0.057	22.3
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23060/704	1:1	0.374	0.191	-0.07	21.83	22.50	1.167	0.436	22.3
Left tilted	10	QPSK 1_0	23060/704	1:1	0.079	0.055	-0.14	21.83	22.50	1.167	0.092	22.3
Right cheek	10	QPSK 1_0	23060/704	1:1	0.245	0.141	-0.16	21.83	22.50	1.167	0.286	22.3
Right tilted	10	QPSK 1_0	23060/704	1:1	0.066	0.043	-0.10	21.83	22.50	1.167	0.077	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_13	23130/711	1:1	0.422	0.237	0.13	21.78	22.50	1.180	0.498	22.3
Left tilted	10	QPSK 25_13	23130/711	1:1	0.088	0.062	0.02	21.78	22.50	1.180	0.104	22.3



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Right cheek	10	QPSK 25_13	23130/711	1:1	0.272	0.155	0.12	21.78	22.50	1.180	0.321	22.3
Right tilted	10	QPSK 25_13	23130/711	1:1	0.077	0.051	-0.11	21.78	22.50	1.180	0.091	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_0	23130/711	1:1	0.234	0.149	0.05	23.58	24.50	1.236	0.289	22.3
Back side	10	QPSK 1_0	23130/711	1:1	0.285	0.197	0.19	23.58	24.50	1.236	0.352	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_13	23060/704	1:1	0.178	0.113	-0.02	22.71	23.50	1.199	0.214	22.3
Back side	10	QPSK 25_13	23060/704	1:1	0.210	0.128	0.10	22.71	23.50	1.199	0.252	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_0	23060/704	1:1	0.210	0.126	0.03	21.83	22.50	1.167	0.245	22.3
Back side	10	QPSK 1_0	23060/704	1:1	0.256	0.150	0.09	21.83	22.50	1.167	0.299	22.3
Left side	10	QPSK 1_0	23060/704	1:1	0.524	0.302	-0.05	21.83	22.50	1.167	0.611	22.3
Bottom side	10	QPSK 1_0	23060/704	1:1	0.013	0.006	0.04	21.83	22.50	1.167	0.015	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_13	23130/711	1:1	0.232	0.139	-0.02	21.78	22.50	1.180	0.274	22.3
Back side	10	QPSK 25_13	23130/711	1:1	0.281	0.164	-0.07	21.78	22.50	1.180	0.332	22.3
Left side	10	QPSK 25_13	23130/711	1:1	0.538	0.343	-0.04	21.78	22.50	1.180	0.635	22.3
Bottom side	10	QPSK 25_13	23130/711	1:1	0.010	0.007	0.14	21.78	22.50	1.180	0.012	22.3



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8.2.9 SAR Result of LTE Band 13

LTE Band 13 SAR Test Record												
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_25	23230/782	1:1	0.096	0.066	-0.12	23.56	24.50	1.242	0.119	22.1
Left tilted	10	QPSK 1_25	23230/782	1:1	0.059	0.044	0.07	23.56	24.50	1.242	0.073	22.1
Right cheek	10	QPSK 1_25	23230/782	1:1	0.101	0.075	0.05	23.56	24.50	1.242	0.125	22.1
Right tilted	10	QPSK 1_25	23230/782	1:1	0.074	0.056	0.02	23.56	24.50	1.242	0.092	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_25	23230/782	1:1	0.076	0.053	0.02	22.56	23.50	1.242	0.094	22.1
Left tilted	10	QPSK 25_25	23230/782	1:1	0.047	0.035	-0.11	22.56	23.50	1.242	0.058	22.1
Right cheek	10	QPSK 25_25	23230/782	1:1	0.078	0.058	0.16	22.56	23.50	1.242	0.097	22.1
Right tilted	10	QPSK 25_25	23230/782	1:1	0.057	0.043	0.17	22.56	23.50	1.242	0.071	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_25	23230/782	1:1	0.113	0.083	-0.09	23.56	24.50	1.242	0.140	22.1
Back side	10	QPSK 1_25	23230/782	1:1	0.138	0.100	-0.04	23.56	24.50	1.242	0.171	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_25	23230/782	1:1	0.088	0.064	0.07	22.56	23.50	1.242	0.109	22.1
Back side	10	QPSK 25_25	23230/782	1:1	0.108	0.079	0.19	22.56	23.50	1.242	0.134	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_25	23230/782	1:1	0.163	0.105	-0.13	23.56	24.50	1.242	0.202	22.1
Back side	10	QPSK 1_25	23230/782	1:1	0.217	0.141	0.16	23.56	24.50	1.242	0.269	22.1
Left side	10	QPSK 1_25	23230/782	1:1	0.084	0.056	0.01	23.56	24.50	1.242	0.104	22.1
Bottom side	10	QPSK 1_25	23230/782	1:1	0.102	0.063	0.18	23.56	24.50	1.242	0.127	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_25	23230/782	1:1	0.125	0.082	0.11	22.56	23.50	1.242	0.155	22.1
Back side	10	QPSK 25_25	23230/782	1:1	0.167	0.106	0.15	22.56	23.50	1.242	0.207	22.1
Left side	10	QPSK 25_25	23230/782	1:1	0.072	0.047	-0.04	22.56	23.50	1.242	0.089	22.1
Bottom side	10	QPSK 25_25	23230/782	1:1	0.077	0.048	0.18	22.56	23.50	1.242	0.096	22.1
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	10	QPSK 1_0	23230/782	1:1	0.488	0.272	0.07	23.07	24.00	1.239	0.605	22.1
Left tilted	10	QPSK 1_0	23230/782	1:1	0.100	0.071	-0.18	23.07	24.00	1.239	0.124	22.1
Right cheek	10	QPSK 1_0	23230/782	1:1	0.301	0.172	-0.07	23.07	24.00	1.239	0.373	22.1
Right tilted	10	QPSK 1_0	23230/782	1:1	0.091	0.060	0.03	23.07	24.00	1.239	0.113	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	10	QPSK 25_25	23230/782	1:1	0.396	0.203	-0.15	22.69	23.50	1.205	0.477	22.1
Left tilted	10	QPSK 25_25	23230/782	1:1	0.083	0.059	-0.10	22.69	23.50	1.205	0.100	22.1



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Right cheek	10	QPSK 25_25	23230/782	1:1	0.243	0.140	0.07	22.69	23.50	1.205	0.293	22.1
Right tilted	10	QPSK 25_25	23230/782	1:1	0.075	0.050	0.02	22.69	23.50	1.205	0.090	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	10	QPSK 1_25	23230/782	1:1	0.196	0.121	-0.16	23.61	24.50	1.227	0.241	22.1
Back side	10	QPSK 1_25	23230/782	1:1	0.230	0.156	0.14	23.61	24.50	1.227	0.282	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	10	QPSK 25_0	23230/782	1:1	0.162	0.101	0.17	22.67	23.50	1.211	0.196	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.193	0.117	0.19	22.67	23.50	1.211	0.234	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	10	QPSK 1_25	23230/782	1:1	0.141	0.082	-0.07	19.61	20.50	1.227	0.173	22.1
Back side	10	QPSK 1_25	23230/782	1:1	0.174	0.102	0.13	19.61	20.50	1.227	0.214	22.1
Left side	10	QPSK 1_25	23230/782	1:1	0.314	0.197	-0.01	19.61	20.50	1.227	0.385	22.1
Bottom side	10	QPSK 1_25	23230/782	1:1	0.006	0.005	0.04	19.61	20.50	1.227	0.007	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	10	QPSK 25_0	23230/782	1:1	0.117	0.069	-0.16	19.65	20.50	1.216	0.142	22.1
Back side	10	QPSK 25_0	23230/782	1:1	0.146	0.084	0.18	19.65	20.50	1.216	0.178	22.1
Left side	10	QPSK 25_0	23230/782	1:1	0.252	0.141	0.07	19.65	20.50	1.216	0.306	22.1
Bottom side	10	QPSK 25_0	23230/782	1:1	0.005	0.004	0.01	19.65	20.50	1.216	0.006	22.1



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8.2.10 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	15	QPSK 1_38	26765/821.5	1:1	0.113	0.078	-0.13	24.28	25.00	1.180	0.133	22.1
Left tilted	15	QPSK 1_38	26765/821.5	1:1	0.056	0.041	0.19	24.28	25.00	1.180	0.066	22.1
Right cheek	15	QPSK 1_38	26765/821.5	1:1	0.129	0.093	0.07	24.28	25.00	1.180	0.152	22.1
Right tilted	15	QPSK 1_38	26765/821.5	1:1	0.077	0.057	0.06	24.28	25.00	1.180	0.091	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	15	QPSK 36_18	26765/821.5	1:1	0.087	0.060	0.00	23.35	24.00	1.161	0.101	22.1
Left tilted	15	QPSK 36_18	26765/821.5	1:1	0.044	0.032	0.07	23.35	24.00	1.161	0.051	22.1
Right cheek	15	QPSK 36_18	26765/821.5	1:1	0.099	0.071	0.09	23.35	24.00	1.161	0.115	22.1
Right tilted	15	QPSK 36_18	26765/821.5	1:1	0.060	0.044	0.08	23.35	24.00	1.161	0.070	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	15	QPSK 1_38	26765/821.5	1:1	0.093	0.065	0.05	24.28	25.00	1.180	0.110	22.1
Back side	15	QPSK 1_38	26765/821.5	1:1	0.134	0.085	-0.11	24.28	25.00	1.180	0.158	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	15	QPSK 36_18	26765/821.5	1:1	0.073	0.052	0.08	23.35	24.00	1.161	0.085	22.1
Back side	15	QPSK 36_18	26765/821.5	1:1	0.102	0.065	-0.01	23.35	24.00	1.161	0.118	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	15	QPSK 1_38	26765/821.5	1:1	0.155	0.099	-0.18	23.91	24.50	1.146	0.178	22.1
Back side	15	QPSK 1_38	26765/821.5	1:1	0.245	0.152	-0.11	23.91	24.50	1.146	0.281	22.1
Right side	15	QPSK 1_38	26765/821.5	1:1	0.160	0.106	0.18	23.91	24.50	1.146	0.183	22.1
Bottom side	15	QPSK 1_38	26765/821.5	1:1	0.133	0.078	0.07	23.91	24.50	1.146	0.152	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	15	QPSK 36_0	26765/821.5	1:1	0.118	0.076	0.11	23.33	24.00	1.167	0.138	22.1
Back side	15	QPSK 36_0	26765/821.5	1:1	0.185	0.116	0.06	23.33	24.00	1.167	0.216	22.1
Right side	15	QPSK 36_0	26765/821.5	1:1	0.124	0.083	0.11	23.33	24.00	1.167	0.145	22.1
Bottom side	15	QPSK 36_0	26765/821.5	1:1	0.097	0.058	-0.03	23.33	24.00	1.167	0.113	22.1
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	15	QPSK 1_38	26865/831.5	1:1	0.469	0.269	0.03	22.12	23.00	1.225	0.574	22.1
Left tilted	15	QPSK 1_38	26865/831.5	1:1	0.090	0.064	0.12	22.12	23.00	1.225	0.110	22.1
Right cheek	15	QPSK 1_38	26865/831.5	1:1	0.267	0.155	-0.11	22.12	23.00	1.225	0.327	22.1
Right tilted	15	QPSK 1_38	26865/831.5	1:1	0.085	0.058	0.19	22.12	23.00	1.225	0.104	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	15	QPSK 36_39	26865/831.5	1:1	0.362	0.183	0.10	22.19	23.00	1.205	0.436	22.1
Left tilted	15	QPSK 36_39	26865/831.5	1:1	0.071	0.052	-0.07	22.19	23.00	1.205	0.086	22.1



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Right cheek	15	QPSK 36_39	26865/831.5	1:1	0.211	0.123	0.00	22.19	23.00	1.205	0.254	22.1
Right tilted	15	QPSK 36_39	26865/831.5	1:1	0.069	0.046	0.00	22.19	23.00	1.205	0.083	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	15	QPSK 1_38	26965/841.5	1:1	0.324	0.203	0.09	24.12	25.00	1.225	0.397	22.1
Back side	15	QPSK 1_38	26965/841.5	1:1	0.390	0.264	0.17	24.12	25.00	1.225	0.478	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	15	QPSK 36_18	26765/821.5	1:1	0.250	0.154	-0.07	23.15	24.00	1.216	0.304	22.1
Back side	15	QPSK 36_18	26765/821.5	1:1	0.300	0.184	0.14	23.15	24.00	1.216	0.365	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	15	QPSK 1_38	26965/841.5	1:1	0.267	0.146	-0.02	20.78	21.50	1.180	0.315	22.1
Back side	15	QPSK 1_38	26965/841.5	1:1	0.325	0.210	0.05	20.78	21.50	1.180	0.384	22.1
Right side	15	QPSK 1_38	26965/841.5	1:1	0.033	0.023	-0.03	20.78	21.50	1.180	0.039	22.1
Bottom side	15	QPSK 1_38	26965/841.5	1:1	0.008	0.005	0.02	20.78	21.50	1.180	0.009	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	15	QPSK 36_18	26765/821.5	1:1	0.212	0.122	-0.07	20.85	21.50	1.161	0.246	22.1
Back side	15	QPSK 36_18	26765/821.5	1:1	0.259	0.150	-0.07	21.66	21.50	0.964	0.250	22.1
Right side	15	QPSK 36_18	26765/821.5	1:1	0.029	0.020	0.19	21.66	21.50	0.964	0.028	22.1
Bottom side	15	QPSK 36_18	26765/821.5	1:1	0.007	0.003	-0.06	21.66	21.50	0.964	0.007	22.1



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8.2.11 SAR Result of LTE Band 41

LTE Band 41 SAR Test Record												
Ant 41 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	41490/2680	1:1.58	0.161	0.084	0.12	24.76	25.00	1.057	0.170	22
Left tilted	20	QPSK 1_0	41490/2680	1:1.58	0.039	0.020	-0.14	24.76	25.00	1.057	0.041	22
Right cheek	20	QPSK 1_0	41490/2680	1:1.58	0.095	0.053	-0.01	24.76	25.00	1.057	0.100	22
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.086	0.044	-0.17	24.76	25.00	1.057	0.091	22
Left cheek	20	QPSK 1_0	41490/2680	1:1.58	0.098	0.032	-0.06	24.36	25.00	1.159	0.114	22
		QPSK SCC 0_0	41292/2660.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	40620/2593	1:1.58	0.166	0.088	-0.10	23.97	24.00	1.007	0.167	22
Left tilted	20	QPSK 50_25	40620/2593	1:1.58	0.047	0.026	-0.04	23.97	24.00	1.007	0.047	22
Right cheek	20	QPSK 50_25	40620/2593	1:1.58	0.092	0.052	0.14	23.97	24.00	1.007	0.093	22
Right tilted	20	QPSK 50_25	40620/2593	1:1.58	0.088	0.046	0.13	23.97	24.00	1.007	0.089	22
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	41490/2680	1:1.58	0.135	0.071	0.16	22.20	23.00	1.202	0.162	22
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.191	0.104	-0.08	22.20	23.00	1.202	0.230	22
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.186	0.098	-0.07	22.54	23.00	1.112	0.207	22
		QPSK SCC 0_0	41292/2660.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	41490/2680	1:1.58	0.133	0.070	0.08	22.24	23.00	1.191	0.158	22
Back side	20	QPSK 50_25	41490/2680	1:1.58	0.192	0.099	0.04	22.24	23.00	1.191	0.229	22
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	41490/2680	1:1.58	0.130	0.066	0.16	20.25	20.50	1.059	0.138	22
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.189	0.090	-0.15	20.25	20.50	1.059	0.200	22
Left side	20	QPSK 1_0	41490/2680	1:1.58	0.035	0.018	-0.12	20.25	20.50	1.059	0.037	22
Bottom side	20	QPSK 1_0	41490/2680	1:1.58	0.368	0.180	-0.07	20.25	20.50	1.059	0.390	22
Bottom side	20	QPSK 1_0	41490/2680	1:1.58	0.301	0.101	-0.18	19.45	20.50	1.274	0.383	22
		QPSK SCC 0_0	41292/2660.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	41490/2680	1:1.58	0.130	0.064	0.07	20.24	20.50	1.062	0.138	22
Back side	20	QPSK 50_0	41490/2680	1:1.58	0.239	0.088	0.16	20.24	20.50	1.062	0.254	22
Left side	20	QPSK 50_0	41490/2680	1:1.58	0.032	0.016	0.09	20.24	20.50	1.062	0.034	22
Bottom side	20	QPSK 50_0	41490/2680	1:1.58	0.358	0.165	-0.01	20.24	20.50	1.062	0.380	22



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Ant 14 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	39750/2506	1:1.58	0.199	0.102	-0.04	17.72	17.80	1.019	0.203	22
Left tilted	20	QPSK 1_0	39750/2506	1:1.58	0.226	0.113	0.09	17.72	17.80	1.019	0.230	22
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.410	0.205	-0.02	17.72	17.80	1.019	0.418	22
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.472	0.200	-0.18	17.72	17.80	1.019	0.481	22
Right tilted	20	QPSK 1_0	41490/2680	1:1.58	0.418	0.104	-0.12	17.26	17.80	1.132	0.473	22
		QPSK SCC 0_0	41292/2660.2									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	39750/2506	1:1.58	0.209	0.108	0.10	17.68	17.80	1.028	0.215	22
Left tilted	20	QPSK 50_0	39750/2506	1:1.58	0.246	0.128	-0.14	17.68	17.80	1.028	0.253	22
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.420	0.211	-0.03	17.68	17.80	1.028	0.432	22
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.458	0.214	-0.02	17.68	17.80	1.028	0.471	22
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.133	0.068	0.12	24.07	24.30	1.054	0.140	22
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.165	0.087	0.17	24.07	24.30	1.054	0.174	22
Back side	20	QPSK 1_0	41490/2680	1:1.58	0.152	0.069	-0.19	24.12	24.30	1.042	0.158	22
		QPSK SCC 0_0	41292/2660.2									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	40185/2549.5	1:1.58	0.120	0.063	-0.02	23.26	23.30	1.009	0.121	22
Back side	20	QPSK 50_50	40185/2549.5	1:1.58	0.164	0.089	0.07	23.26	23.30	1.009	0.166	22
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.218	0.112	0.14	21.09	21.30	1.050	0.229	22
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.176	0.087	-0.02	21.09	21.30	1.050	0.185	22
Left side	20	QPSK 1_0	39750/2506	1:1.58	0.182	0.086	-0.15	21.09	21.30	1.050	0.191	22
Top side	20	QPSK 1_0	39750/2506	1:1.58	0.261	0.125	0.13	21.09	21.30	1.050	0.274	22
Top side	20	QPSK 1_0	41490/2680	1:1.58	0.253	0.119	-0.19	21.26	21.30	1.009	0.255	22
		QPSK SCC 0_0	41292/2660.2									
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	20	QPSK 50_0	39750/2506	1:1.58	0.212	0.109	-0.02	21.23	21.30	1.016	0.215	22
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.153	0.077	-0.18	21.23	21.30	1.016	0.155	22
Left side	20	QPSK 50_0	39750/2506	1:1.58	0.198	0.093	0.15	21.23	21.30	1.016	0.201	22
Top side	20	QPSK 50_0	39750/2506	1:1.58	0.264	0.126	-0.02	21.23	21.30	1.016	0.268	22



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Ant 12 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	39750/2506	1:1.58	0.133	0.074	0.05	18.04	18.70	1.164	0.155	22.5
Left tilted	20	QPSK 1_0	39750/2506	1:1.58	0.085	0.046	-0.02	18.04	18.70	1.164	0.099	22.5
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.499	0.245	0.10	18.04	18.70	1.164	0.581	22.5
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.207	0.101	-0.11	18.04	18.70	1.164	0.241	22.5
Right cheek	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.468	0.239	-0.18	17.82	18.70	1.225	0.573	22.5
		QPSK SCC 0_0	40383/2569.3									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	39750/2506	1:1.58	0.159	0.089	0.00	18.09	18.70	1.151	0.183	22.5
Left tilted	20	QPSK 50_0	39750/2506	1:1.58	0.080	0.044	-0.02	18.09	18.70	1.151	0.092	22.5
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.518	0.255	-0.09	18.09	18.70	1.151	0.596	22.5
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.198	0.098	-0.03	18.09	18.70	1.151	0.228	22.5
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.125	0.066	-0.06	21.50	22.20	1.175	0.147	22.5
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.161	0.084	0.17	21.50	22.20	1.175	0.189	22.5
Back side	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.149	0.079	-0.12	21.22	22.20	1.253	0.187	22.5
		QPSK SCC 0_0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	39750/2506	1:1.58	0.124	0.066	0.17	21.59	22.20	1.151	0.143	22.5
Back side	20	QPSK 50_25	39750/2506	1:1.58	0.161	0.084	-0.18	21.59	22.20	1.151	0.185	22.5
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.146	0.070	-0.19	20.08	20.70	1.153	0.168	22.5
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.171	0.084	0.18	20.08	20.70	1.153	0.197	22.5
Left side	20	QPSK 1_0	39750/2506	1:1.58	0.259	0.125	-0.07	20.08	20.70	1.153	0.299	22.5
Top side	20	QPSK 1_0	39750/2506	1:1.58	0.038	0.021	0.04	20.08	20.70	1.153	0.044	22.5
Left side	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.239	0.114	-0.17	19.92	20.70	1.197	0.286	22.5
		QPSK SCC 0_0	40383/2569.3									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	39750/2506	1:1.58	0.142	0.070	-0.17	20.18	20.70	1.127	0.160	22.5
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.164	0.084	0.06	20.18	20.70	1.127	0.185	22.5
Left side	20	QPSK 50_0	39750/2506	1:1.58	0.253	0.119	0.04	20.18	20.70	1.127	0.285	22.5
Top side	20	QPSK 50_0	39750/2506	1:1.58	0.042	0.022	0.04	20.18	20.70	1.127	0.047	22.5



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Ant 24 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_0	39750/2506	1:1.58	0.522	0.223	0.13	18.13	18.30	1.040	0.543	22.5
Left tilted	20	QPSK 1_0	39750/2506	1:1.58	0.206	0.097	0.15	18.13	18.30	1.040	0.214	22.5
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.100	0.051	-0.18	18.13	18.30	1.040	0.104	22.5
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.078	0.037	-0.08	18.13	18.30	1.040	0.081	22.5
Left cheek	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.456	0.175	-0.06	17.60	18.30	1.175	0.536	22.5
		QPSK SCC 0_0	40383/2569.3									
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	39750/2506	1:1.58	0.712	0.288	0.03	18.22	18.30	1.019	0.725	22.5
Left tilted	20	QPSK 50_0	39750/2506	1:1.58	0.236	0.112	-0.19	18.22	18.30	1.019	0.240	22.5
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.121	0.062	-0.02	18.22	18.30	1.019	0.123	22.5
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.096	0.046	-0.18	18.22	18.30	1.019	0.098	22.5
Left cheek	20	QPSK 50_50	40185/2549.5	1:1.58	0.554	0.169	0.04	17.68	18.30	1.153	0.639	22.5
Left cheek	20	QPSK 50_50	40620/2593	1:1.58	0.567	0.158	0.19	17.75	18.30	1.135	0.644	22.5
Left cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.574	0.142	0.14	17.66	18.30	1.159	0.665	22.5
Left cheek	20	QPSK 50_0	41490/2680	1:1.58	0.610	0.171	0.08	17.83	18.30	1.114	0.680	22.5
Head Test Data (1RB) DSI 3												
Left cheek	20	QPSK 1_0	39750/2506	1:1.58	0.522	0.223	0.13	18.13	17.80	0.927	0.484	22.5
Left tilted	20	QPSK 1_0	39750/2506	1:1.58	0.206	0.097	0.15	18.13	17.80	0.927	0.191	22.5
Right cheek	20	QPSK 1_0	39750/2506	1:1.58	0.100	0.051	-0.18	18.13	17.80	0.927	0.093	22.5
Right tilted	20	QPSK 1_0	39750/2506	1:1.58	0.078	0.037	-0.08	18.13	17.80	0.927	0.072	22.5
Left cheek	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.456	0.175	-0.06	17.60	17.80	1.047	0.477	22.5
		QPSK SCC 0_0	40383/2569.3									
Head Test Data (50%RB) DSI 3												
Left cheek	20	QPSK 50_0	39750/2506	1:1.58	0.712	0.288	0.03	18.22	17.80	0.908	0.646	22.5
Left tilted	20	QPSK 50_0	39750/2506	1:1.58	0.236	0.112	-0.19	18.22	17.80	0.908	0.214	22.5
Right cheek	20	QPSK 50_0	39750/2506	1:1.58	0.121	0.062	-0.02	18.22	17.80	0.908	0.110	22.5
Right tilted	20	QPSK 50_0	39750/2506	1:1.58	0.096	0.046	-0.18	18.22	17.80	0.908	0.087	22.5
Left cheek	20	QPSK 50_50	40185/2549.5	1:1.58	0.554	0.169	0.04	17.68	17.80	1.028	0.570	22.5
Left cheek	20	QPSK 50_50	40620/2593	1:1.58	0.567	0.158	0.19	17.75	17.80	1.012	0.574	22.5
Left cheek	20	QPSK 50_50	41055/2636.5	1:1.58	0.574	0.142	0.14	17.66	17.80	1.033	0.593	22.5
Left cheek	20	QPSK 50_0	41490/2680	1:1.58	0.610	0.171	0.08	17.83	17.80	0.993	0.606	22.5
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.086	0.046	0.07	23.01	23.30	1.069	0.092	22.5
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.118	0.058	0.11	23.01	23.30	1.069	0.126	22.5
Back side	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.098	0.046	0.09	22.45	23.30	1.216	0.119	22.5
		QPSK SCC 0_0	40383/2569.3									
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	39750/2506	1:1.58	0.114	0.062	-0.09	22.27	22.30	1.007	0.115	22.5
Back side	20	QPSK 50_25	39750/2506	1:1.58	0.138	0.071	-0.01	22.27	22.30	1.007	0.139	22.5



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Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	39750/2506	1:1.58	0.130	0.064	-0.08	21.59	21.80	1.050	0.136	22.5
Back side	20	QPSK 1_0	39750/2506	1:1.58	0.179	0.087	-0.03	21.59	21.80	1.050	0.188	22.5
Left side	20	QPSK 1_0	39750/2506	1:1.58	0.026	0.006	0.07	21.59	21.80	1.050	0.027	22.5
Top side	20	QPSK 1_0	39750/2506	1:1.58	0.092	0.044	-0.09	21.59	21.80	1.050	0.097	22.5
Back side	20	QPSK PCC 1_0	40185/2549.5	1:1.58	0.168	0.079	-0.08	21.46	21.80	1.081	0.182	22.5
		QPSK SCC 0_0	40383/2569.3									
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	39750/2506	1:1.58	0.162	0.082	-0.13	21.57	21.80	1.054	0.171	22.5
Back side	20	QPSK 50_0	39750/2506	1:1.58	0.213	0.105	-0.10	21.57	21.80	1.054	0.225	22.5
Left side	20	QPSK 50_0	39750/2506	1:1.58	0.025	0.004	0.15	21.57	21.80	1.054	0.026	22.5
Top side	20	QPSK 50_0	39750/2506	1:1.58	0.080	0.040	-0.04	21.57	21.80	1.054	0.084	22.5



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8.2.12 SAR Result of LTE Band 42

LTE Band 42 SAR Test Record												
Ant 14 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	43490/3590	1:1.58	0.253	0.102	0.09	15.70	16.00	1.072	0.271	22.2
Left tilted	20	QPSK 1_50	43490/3590	1:1.58	0.347	0.139	-0.14	15.70	16.00	1.072	0.372	22.2
Right cheek	20	QPSK 1_50	43490/3590	1:1.58	0.451	0.161	0.03	15.70	16.00	1.072	0.483	22.2
Right tilted	20	QPSK 1_50	43490/3590	1:1.58	0.529	0.214	0.04	15.70	16.00	1.072	0.567	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_25	41690/3410	1:1.58	0.196	0.078	0.02	15.89	16.00	1.026	0.201	22.2
Left tilted	20	QPSK 50_25	41690/3410	1:1.58	0.245	0.098	-0.02	15.89	16.00	1.026	0.251	22.2
Right cheek	20	QPSK 50_25	41690/3410	1:1.58	0.305	0.113	-0.08	15.89	16.00	1.026	0.313	22.2
Right tilted	20	QPSK 50_25	41690/3410	1:1.58	0.450	0.161	0.16	15.89	16.00	1.026	0.462	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	41690/3410	1:1.58	0.212	0.094	-0.17	23.79	24.50	1.178	0.250	22.2
Back side	20	QPSK 1_99	41690/3410	1:1.58	0.264	0.119	0.05	23.79	24.50	1.178	0.311	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	41690/3410	1:1.58	0.209	0.090	0.05	22.97	23.50	1.130	0.236	22.2
Back side	20	QPSK 50_50	41690/3410	1:1.58	0.256	0.114	-0.14	22.97	23.50	1.130	0.289	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	20	QPSK 1_50	43490/3590	1:1.58	0.088	0.038	-0.02	15.48	16.00	1.127	0.099	22.2
Back side	20	QPSK 1_50	43490/3590	1:1.58	0.103	0.045	0.01	15.48	16.00	1.127	0.116	22.2
Left side	20	QPSK 1_50	43490/3590	1:1.58	0.048	0.010	0.04	15.48	16.00	1.127	0.054	22.2
Top side	20	QPSK 1_50	43490/3590	1:1.58	0.274	0.113	0.17	15.48	16.00	1.127	0.309	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	20	QPSK 50_50	43490/3590	1:1.58	0.088	0.040	0.01	15.69	16.00	1.074	0.095	22.2
Back side	20	QPSK 50_50	43490/3590	1:1.58	0.115	0.050	0.16	15.69	16.00	1.074	0.124	22.2
Left side	20	QPSK 50_50	43490/3590	1:1.58	0.031	0.009	-0.09	15.69	16.00	1.074	0.033	22.2
Top side	20	QPSK 50_50	43490/3590	1:1.58	0.279	0.112	-0.19	15.69	16.00	1.074	0.300	22.2
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI 5												
Top side	20	QPSK 1_50	42590/3500	1:1.58	3.250	0.897	0.06	18.06	18.50	1.107	0.993	22.2
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI 5												
Top side	20	QPSK 50_50	42590/3500	1:1.58	3.360	0.919	0.00	18.25	18.50	1.059	0.973	22.2
Product specific 10g SAR Test data (Sensor off 1RB) DSI 4												
Top side with 11mm	20	QPSK 1_99	41690/3410	1:1.58	1.720	0.699	0.03	23.79	24.50	1.178	0.823	22.2
Product specific 10g SAR Test data (Sensor off 50%RB) DSI 4												
Top side with 11mm	20	QPSK 50_50	41690/3410	1:1.58	1.280	0.544	0.05	22.97	23.50	1.130	0.615	22.2



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Ant 23 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	41690/3410	1:1.58	0.366	0.162	-0.03	16.36	16.50	1.033	0.378	22.2
Left tilted	20	QPSK 1_50	41690/3410	1:1.58	0.440	0.167	0.00	16.36	16.50	1.033	0.454	22.2
Right cheek	20	QPSK 1_50	41690/3410	1:1.58	0.109	0.048	0.18	16.36	16.50	1.033	0.113	22.2
Right tilted	20	QPSK 1_50	41690/3410	1:1.58	0.126	0.052	-0.10	16.36	16.50	1.033	0.130	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	41690/3410	1:1.58	0.370	0.164	-0.10	16.49	16.50	1.002	0.371	22.2
Left tilted	20	QPSK 50_0	41690/3410	1:1.58	0.461	0.168	-0.11	16.49	16.50	1.002	0.462	22.2
Right cheek	20	QPSK 50_0	41690/3410	1:1.58	0.111	0.049	-0.09	16.49	16.50	1.002	0.111	22.2
Right tilted	20	QPSK 50_0	41690/3410	1:1.58	0.126	0.053	0.00	16.49	16.50	1.002	0.126	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	41690/3410	1:1.58	0.085	0.041	0.03	21.18	21.50	1.076	0.091	22.2
Back side	20	QPSK 1_99	41690/3410	1:1.58	0.137	0.067	-0.06	21.18	21.50	1.076	0.147	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	41690/3410	1:1.58	0.064	0.031	0.16	20.29	20.50	1.050	0.067	22.2
Back side	20	QPSK 50_25	41690/3410	1:1.58	0.104	0.050	0.08	20.29	20.50	1.050	0.109	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	43490/3590	1:1.58	0.134	0.062	-0.16	20.98	21.00	1.005	0.135	22.2
Back side	20	QPSK 1_0	43490/3590	1:1.58	0.197	0.091	-0.05	20.98	21.00	1.005	0.198	22.2
Right side	20	QPSK 1_0	43490/3590	1:1.58	0.318	0.138	-0.03	20.98	21.00	1.005	0.319	22.2
Top side	20	QPSK 1_0	43490/3590	1:1.58	0.281	0.105	0.18	20.98	21.00	1.005	0.282	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	41690/3410	1:1.58	0.111	0.057	0.08	20.26	20.50	1.057	0.117	22.2
Back side	20	QPSK 50_0	41690/3410	1:1.58	0.186	0.088	-0.06	20.26	20.50	1.057	0.197	22.2
Right side	20	QPSK 50_0	41690/3410	1:1.58	0.239	0.111	-0.18	20.26	20.50	1.057	0.253	22.2
Top side	20	QPSK 50_0	41690/3410	1:1.58	0.275	0.106	-0.15	20.26	20.50	1.057	0.291	22.2
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	41690/3410	1:1.58	0.123	0.060	-0.10	16.35	16.50	1.035	0.127	22.3
Left tilted	20	QPSK 1_50	41690/3410	1:1.58	0.126	0.059	0.17	16.35	16.50	1.035	0.130	22.3
Right cheek	20	QPSK 1_50	41690/3410	1:1.58	0.438	0.189	-0.19	16.35	16.50	1.035	0.453	22.3
Right tilted	20	QPSK 1_50	41690/3410	1:1.58	0.303	0.127	-0.13	16.35	16.50	1.035	0.314	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_0	41690/3410	1:1.58	0.144	0.068	-0.11	16.48	16.50	1.005	0.145	22.3
Left tilted	20	QPSK 50_0	41690/3410	1:1.58	0.109	0.051	0.01	16.48	16.50	1.005	0.110	22.3
Right cheek	20	QPSK 50_0	41690/3410	1:1.58	0.446	0.193	-0.01	16.48	16.50	1.005	0.448	22.3
Right tilted	20	QPSK 50_0	41690/3410	1:1.58	0.296	0.125	0.15	16.48	16.50	1.005	0.297	22.3



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Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	41690/3410	1:1.58	0.120	0.056	0.02	20.91	21.00	1.021	0.123	22.3
Back side	20	QPSK 1_0	41690/3410	1:1.58	0.136	0.066	0.06	20.91	21.00	1.021	0.139	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_25	41690/3410	1:1.58	0.129	0.062	-0.13	20.87	21.00	1.030	0.133	22.3
Back side	20	QPSK 50_25	41690/3410	1:1.58	0.141	0.071	-0.05	20.87	21.00	1.030	0.145	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	41690/3410	1:1.58	0.139	0.062	0.16	19.39	19.50	1.026	0.143	22.3
Back side	20	QPSK 1_0	41690/3410	1:1.58	0.198	0.090	-0.08	19.39	19.50	1.026	0.203	22.3
Left side	20	QPSK 1_0	41690/3410	1:1.58	0.266	0.108	0.01	19.39	19.50	1.026	0.273	22.3
Top side	20	QPSK 1_0	41690/3410	1:1.58	0.098	0.044	-0.04	19.39	19.50	1.026	0.101	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_0	41690/3410	1:1.58	0.136	0.062	-0.08	19.29	19.50	1.050	0.143	22.3
Back side	20	QPSK 50_0	41690/3410	1:1.58	0.182	0.086	0.05	19.29	19.50	1.050	0.191	22.3
Left side	20	QPSK 50_0	41690/3410	1:1.58	0.256	0.109	0.17	19.29	19.50	1.050	0.269	22.3
Top side	20	QPSK 50_0	41690/3410	1:1.58	0.097	0.044	-0.09	19.29	19.50	1.050	0.102	22.3
Ant 21 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	43490/3590	1:1.58	0.609	0.270	0.07	21.34	21.50	1.038	0.632	22.3
Left tilted	20	QPSK 1_50	43490/3590	1:1.58	0.732	0.301	0.13	21.34	21.50	1.038	0.759	22.3
Right cheek	20	QPSK 1_50	43490/3590	1:1.58	0.392	0.169	0.19	21.34	21.50	1.038	0.407	22.3
Right tilted	20	QPSK 1_50	43490/3590	1:1.58	0.484	0.207	0.17	21.34	21.50	1.038	0.502	22.3
Left cheek	20	QPSK 1_50	41690/3410	1:1.58	0.568	0.264	0.01	20.93	21.50	1.140	0.648	22.3
Left cheek	20	QPSK 1_0	42590/3500	1:1.58	0.574	0.251	-0.04	21.01	21.50	1.119	0.643	22.3
Left tilted	20	QPSK 1_50	41690/3410	1:1.58	0.635	0.230	-0.17	20.93	21.50	1.140	0.724	22.3
Left tilted	20	QPSK 1_0	42590/3500	1:1.58	0.614	0.217	0.03	21.01	21.50	1.119	0.687	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	43490/3590	1:1.58	0.488	0.216	0.10	20.30	20.50	1.047	0.511	22.3
Left tilted	20	QPSK 50_50	43490/3590	1:1.58	0.606	0.251	0.16	20.30	20.50	1.047	0.635	22.3
Right cheek	20	QPSK 50_50	43490/3590	1:1.58	0.323	0.139	-0.11	20.30	20.50	1.047	0.338	22.3
Right tilted	20	QPSK 50_50	43490/3590	1:1.58	0.441	0.186	-0.19	20.30	20.50	1.047	0.462	22.3
Left tilted	20	QPSK 50_0	41690/3410	1:1.58	0.536	0.164	-0.01	19.95	20.50	1.135	0.608	22.3
Left tilted	20	QPSK 50_25	42590/3500	1:1.58	0.544	0.169	0.06	20.06	20.50	1.107	0.602	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	43490/3590	1:1.58	0.061	0.028	0.16	21.34	21.50	1.038	0.063	22.3
Back side	20	QPSK 1_50	43490/3590	1:1.58	0.070	0.033	-0.17	21.34	21.50	1.038	0.073	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	43490/3590	1:1.58	0.051	0.022	-0.11	20.30	20.50	1.047	0.053	22.3
Back side	20	QPSK 50_50	43490/3590	1:1.58	0.063	0.028	-0.10	20.30	20.50	1.047	0.066	22.3



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Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	43490/3590	1:1.58	0.110	0.051	0.06	21.34	21.50	1.038	0.114	22.3
Back side	20	QPSK 1_50	43490/3590	1:1.58	0.127	0.055	0.01	21.34	21.50	1.038	0.132	22.3
Left side	20	QPSK 1_50	43490/3590	1:1.58	0.128	0.056	-0.18	21.34	21.50	1.038	0.133	22.3
Right side	20	QPSK 1_50	43490/3590	1:1.58	0.045	0.010	-0.03	21.34	21.50	1.038	0.047	22.3
Top side	20	QPSK 1_50	43490/3590	1:1.58	0.199	0.085	0.19	21.34	21.50	1.038	0.206	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	43490/3590	1:1.58	0.086	0.040	-0.19	20.30	20.50	1.047	0.090	22.3
Back side	20	QPSK 50_50	43490/3590	1:1.58	0.107	0.045	-0.11	20.30	20.50	1.047	0.112	22.3
Left side	20	QPSK 50_50	43490/3590	1:1.58	0.116	0.047	-0.12	20.30	20.50	1.047	0.121	22.3
Right side	20	QPSK 50_50	43490/3590	1:1.58	0.030	0.008	-0.08	20.30	20.50	1.047	0.031	22.3
Top side	20	QPSK 50_50	43490/3590	1:1.58	0.165	0.072	0.06	20.30	20.50	1.047	0.173	22.3



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8.2.13 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record												
Ant 41 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	132322/1745	1:1	0.121	0.078	-0.07	24.96	25.00	1.009	0.122	22.2
Left tilted	20	QPSK 1_50	132322/1745	1:1	0.081	0.052	0.12	24.96	25.00	1.009	0.082	22.2
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.138	0.080	-0.15	24.96	25.00	1.009	0.139	22.2
Right tilted	20	QPSK 1_50	132322/1745	1:1	0.092	0.055	0.06	24.96	25.00	1.009	0.093	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.095	0.059	-0.18	23.96	24.00	1.009	0.096	22.2
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.066	0.041	-0.16	23.96	24.00	1.009	0.067	22.2
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.109	0.067	-0.07	23.96	24.00	1.009	0.110	22.2
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.072	0.043	0.00	23.96	24.00	1.009	0.073	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	132072/1720	1:1	0.100	0.060	-0.08	21.45	21.50	1.012	0.101	22.2
Back side	20	QPSK 1_50	132072/1720	1:1	0.130	0.077	-0.13	21.45	21.50	1.012	0.132	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132322/1745	1:1	0.093	0.056	0.18	21.44	21.50	1.014	0.094	22.2
Back side	20	QPSK 50_50	132322/1745	1:1	0.128	0.076	-0.05	21.44	21.50	1.014	0.130	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_0	132572/1770	1:1	0.216	0.122	0.05	20.45	20.50	1.012	0.219	22.2
Back side	20	QPSK 1_0	132572/1770	1:1	0.298	0.166	-0.04	20.45	20.50	1.012	0.301	22.2
Left side	20	QPSK 1_0	132572/1770	1:1	0.079	0.043	0.13	20.45	20.50	1.012	0.080	22.2
Bottom side	20	QPSK 1_0	132572/1770	1:1	0.398	0.217	-0.15	20.45	20.50	1.012	0.403	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132322/1745	1:1	0.215	0.122	0.00	20.37	20.50	1.030	0.222	22.2
Back side	20	QPSK 50_50	132322/1745	1:1	0.296	0.166	-0.18	20.37	20.50	1.030	0.305	22.2
Left side	20	QPSK 50_50	132322/1745	1:1	0.075	0.042	0.01	20.37	20.50	1.030	0.077	22.2
Bottom side	20	QPSK 50_50	132322/1745	1:1	0.397	0.208	-0.11	20.37	20.50	1.030	0.409	22.2
Ant 14 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	132572/1770	1:1	0.235	0.158	0.10	17.74	18.10	1.086	0.255	22.2
Left tilted	20	QPSK 1_50	132572/1770	1:1	0.247	0.155	0.09	17.74	18.10	1.086	0.268	22.2
Right cheek	20	QPSK 1_50	132572/1770	1:1	0.564	0.327	-0.02	17.74	18.10	1.086	0.613	22.2
Right tilted	20	QPSK 1_50	132572/1770	1:1	0.375	0.194	0.06	17.74	18.10	1.086	0.407	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.249	0.168	-0.10	17.42	18.10	1.169	0.291	22.2
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.263	0.166	0.08	17.42	18.10	1.169	0.308	22.2



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Right cheek	20	QPSK 50_50	132572/1770	1:1	0.606	0.350	0.02	17.42	18.30	1.225	0.742	22.2
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.398	0.206	0.01	17.42	18.10	1.169	0.465	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_0	132572/1770	1:1	0.254	0.165	-0.02	24.24	24.60	1.086	0.276	22.2
Back side	20	QPSK 1_0	132572/1770	1:1	0.366	0.240	-0.02	24.24	24.60	1.086	0.398	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132322/1745	1:1	0.199	0.130	0.05	23.05	23.60	1.135	0.226	22.2
Back side	20	QPSK 50_50	132322/1745	1:1	0.255	0.161	-0.02	23.05	23.60	1.135	0.289	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	20	QPSK 1_99	132572/1770	1:1	0.155	0.105	0.03	20.06	20.60	1.132	0.176	22.2
Back side	20	QPSK 1_99	132572/1770	1:1	0.311	0.187	-0.19	20.06	20.60	1.132	0.352	22.2
Left side	20	QPSK 1_99	132572/1770	1:1	0.095	0.052	-0.04	20.06	20.60	1.132	0.108	22.2
Top side	20	QPSK 1_99	132572/1770	1:1	0.357	0.193	-0.15	20.06	20.60	1.132	0.404	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	20	QPSK 50_50	132572/1770	1:1	0.202	0.126	-0.01	19.70	20.60	1.230	0.249	22.2
Back side	20	QPSK 50_50	132572/1770	1:1	0.293	0.174	0.04	19.70	20.60	1.230	0.360	22.2
Left side	20	QPSK 50_50	132572/1770	1:1	0.092	0.050	-0.04	19.70	20.60	1.230	0.113	22.2
Top side	20	QPSK 50_50	132572/1770	1:1	0.336	0.200	-0.07	19.70	20.60	1.230	0.413	22.2
Ant 12 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	132572/1770	1:1	0.152	0.093	0.16	17.72	18.50	1.197	0.182	22.2
Left tilted	20	QPSK 1_50	132572/1770	1:1	0.068	0.042	-0.16	17.72	18.50	1.197	0.081	22.2
Right cheek	20	QPSK 1_50	132572/1770	1:1	0.662	0.323	0.17	17.72	18.50	1.197	0.792	22.2
Right tilted	20	QPSK 1_50	132572/1770	1:1	0.148	0.080	0.19	17.72	18.50	1.197	0.177	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	132572/1770	1:1	0.154	0.093	-0.16	17.50	18.50	1.259	0.194	22.2
Left tilted	20	QPSK 50_50	132572/1770	1:1	0.066	0.041	-0.08	17.50	18.50	1.259	0.083	22.2
Right cheek	20	QPSK 50_50	132572/1770	1:1	0.679	0.310	0.07	17.50	18.50	1.259	0.855	22.2
Right tilted	20	QPSK 50_50	132572/1770	1:1	0.149	0.080	-0.17	17.50	18.50	1.259	0.188	22.2
Right cheek	20	QPSK 50_50	132072/1720	1:1	0.662	0.320	-0.02	17.50	18.50	1.259	0.833	22.2
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.652	0.355	0.09	17.50	18.50	1.259	0.821	22.2
Head Test Data (100%RB) DSI 2												
Right cheek	20	QPSK 100_0	132072/1720	1:1	0.623	0.318	0.07	17.30	18.50	1.318	0.821	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_50	132322/1745	1:1	0.155	0.085	0.13	20.66	21.50	1.213	0.188	22.2
Back side	20	QPSK 1_50	132322/1745	1:1	0.186	0.102	-0.06	20.66	21.50	1.213	0.226	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132322/1745	1:1	0.160	0.081	-0.07	20.33	21.50	1.309	0.209	22.2
Back side	20	QPSK 50_50	132322/1745	1:1	0.191	0.109	-0.14	20.33	21.50	1.309	0.250	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_50	132322/1745	1:1	0.149	0.077	0.16	19.15	20.00	1.216	0.181	22.2
Back side	20	QPSK 1_50	132322/1745	1:1	0.250	0.126	-0.13	19.15	20.00	1.216	0.304	22.2



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Left side	20	QPSK 1_50	132322/1745	1:1	0.278	0.138	-0.02	19.15	20.00	1.216	0.338	22.2
Top side	20	QPSK 1_50	132322/1745	1:1	0.042	0.023	-0.10	19.15	20.00	1.216	0.051	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132322/1745	1:1	0.151	0.078	-0.18	18.84	20.00	1.306	0.197	22.2
Back side	20	QPSK 50_50	132322/1745	1:1	0.257	0.129	0.15	18.84	20.00	1.306	0.336	22.2
Left side	20	QPSK 50_50	132322/1745	1:1	0.294	0.145	-0.08	18.84	20.00	1.306	0.384	22.2
Top side	20	QPSK 50_50	132322/1745	1:1	0.056	0.033	0.18	18.84	20.00	1.306	0.073	22.2
Ant 24 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_50	132322/1745	1:1	0.618	0.298	-0.03	19.39	19.70	1.074	0.664	22.3
Left tilted	20	QPSK 1_50	132322/1745	1:1	0.245	0.119	-0.17	19.39	19.70	1.074	0.263	22.3
Right cheek	20	QPSK 1_50	132322/1745	1:1	0.146	0.082	0.11	19.39	19.70	1.074	0.157	22.3
Right tilted	20	QPSK 1_50	132322/1745	1:1	0.075	0.042	0.17	19.39	19.70	1.074	0.081	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_50	132322/1745	1:1	0.573	0.276	-0.09	19.36	19.70	1.081	0.620	22.3
Left tilted	20	QPSK 50_50	132322/1745	1:1	0.233	0.112	-0.12	19.36	19.70	1.081	0.252	22.3
Right cheek	20	QPSK 50_50	132322/1745	1:1	0.140	0.081	0.07	19.36	19.70	1.081	0.151	22.3
Right tilted	20	QPSK 50_50	132322/1745	1:1	0.073	0.040	0.06	19.36	19.70	1.081	0.079	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_99	132322/1745	1:1	0.088	0.048	-0.15	22.90	23.20	1.072	0.094	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.131	0.068	0.06	22.90	23.20	1.072	0.140	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_50	132072/1720	1:1	0.058	0.031	-0.19	21.94	22.20	1.062	0.062	22.3
Back side	20	QPSK 50_50	132072/1720	1:1	0.090	0.046	0.00	21.94	22.20	1.062	0.096	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_99	132322/1745	1:1	0.203	0.103	0.15	22.90	23.20	1.072	0.218	22.3
Back side	20	QPSK 1_99	132322/1745	1:1	0.297	0.154	0.07	22.90	23.20	1.072	0.318	22.3
Right side	20	QPSK 1_99	132322/1745	1:1	0.270	0.131	0.19	22.90	23.20	1.072	0.289	22.3
Top side	20	QPSK 1_99	132322/1745	1:1	0.016	0.011	0.12	22.90	23.20	1.072	0.017	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_50	132072/1720	1:1	0.130	0.065	0.11	21.94	22.20	1.062	0.138	22.3
Back side	20	QPSK 50_50	132072/1720	1:1	0.200	0.101	0.07	21.94	22.20	1.062	0.212	22.3
Right side	20	QPSK 50_50	132072/1720	1:1	0.179	0.087	0.09	21.94	22.20	1.062	0.190	22.3
Top side	20	QPSK 50_50	132072/1720	1:1	0.012	0.009	-0.15	21.94	22.20	1.062	0.013	22.3



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8.2.14 SAR Result of NR Band n2

SA N2 SAR Test Record												
Ant 41 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_104	372000/1860	100%	0.122	0.077	-0.15	24.14	24.80	1.164	0.142	22.4
Left tilted	20	QPSK 1_104	372000/1860	100%	0.073	0.045	-0.05	24.14	24.80	1.164	0.085	22.4
Right cheek	20	QPSK 1_104	372000/1860	100%	0.128	0.077	0.13	24.14	24.80	1.164	0.149	22.4
Right tilted	20	QPSK 1_104	372000/1860	100%	0.078	0.047	-0.14	24.14	24.80	1.164	0.091	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.143	0.090	-0.19	24.03	24.80	1.194	0.171	22.4
Left tilted	20	QPSK 50_28	380000/1900	100%	0.103	0.062	-0.05	24.03	24.80	1.194	0.123	22.4
Right cheek	20	QPSK 50_28	380000/1900	100%	0.143	0.087	-0.07	24.03	24.80	1.194	0.171	22.4
Right tilted	20	QPSK 50_28	380000/1900	100%	0.096	0.057	0.15	24.03	24.80	1.194	0.115	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_104	380000/1900	100%	0.245	0.146	0.07	21.63	22.30	1.167	0.286	22.4
Back side	20	QPSK 1_104	380000/1900	100%	0.350	0.202	0.13	21.63	22.30	1.167	0.408	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	380000/1900	100%	0.230	0.137	0.00	21.46	22.30	1.213	0.279	22.4
Back side	20	QPSK 50_28	380000/1900	100%	0.341	0.195	-0.02	21.46	22.30	1.213	0.414	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_104	380000/1900	100%	0.264	0.160	0.12	19.70	20.30	1.148	0.303	22.4
Back side	20	QPSK 1_104	380000/1900	100%	0.410	0.235	-0.07	19.70	20.30	1.148	0.471	22.4
Left side	20	QPSK 1_104	380000/1900	100%	0.134	0.088	-0.15	19.70	20.30	1.148	0.154	22.4
Bottom side	20	QPSK 1_104	380000/1900	100%	0.496	0.281	-0.14	19.70	20.30	1.148	0.569	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	380000/1900	100%	0.253	0.154	0.11	19.55	20.30	1.189	0.301	22.4
Back side	20	QPSK 50_28	380000/1900	100%	0.398	0.223	-0.18	19.55	20.30	1.189	0.473	22.4
Left side	20	QPSK 50_28	380000/1900	100%	0.123	0.083	0.01	19.55	20.30	1.189	0.146	22.4
Bottom side	20	QPSK 50_28	380000/1900	100%	0.516	0.289	0.17	19.55	20.30	1.189	0.613	22.4
Ant 14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_1	372000/1860	100%	0.308	0.204	0.18	17.10	18.30	1.318	0.406	22.4
Left tilted	20	QPSK 1_1	372000/1860	100%	0.381	0.234	0.03	17.10	18.30	1.318	0.502	22.4
Right cheek	20	QPSK 1_1	372000/1860	100%	0.501	0.262	-0.05	17.10	18.30	1.318	0.660	22.4
Right tilted	20	QPSK 1_1	372000/1860	100%	0.527	0.273	0.03	17.10	18.30	1.318	0.695	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.251	0.164	-0.12	16.95	18.30	1.365	0.343	22.4
Left tilted	20	QPSK 50_28	380000/1900	100%	0.325	0.196	0.06	16.95	18.30	1.365	0.443	22.4
Right cheek	20	QPSK 50_28	380000/1900	100%	0.425	0.244	0.07	16.95	18.30	1.365	0.580	22.4
Right tilted	20	QPSK 50_28	380000/1900	100%	0.441	0.229	0.13	16.95	18.30	1.365	0.602	22.4



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Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_104	372000/1860	100%	0.258	0.156	-0.13	23.07	24.30	1.327	0.342	22.4
Back side	20	QPSK 1_104	372000/1860	100%	0.366	0.214	0.08	23.07	24.30	1.327	0.486	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	380000/1900	100%	0.240	0.209	-0.15	22.89	24.30	1.384	0.332	22.4
Back side	20	QPSK 50_28	380000/1900	100%	0.335	0.200	-0.08	22.89	24.30	1.384	0.463	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	20	QPSK 1_104	372000/1860	100%	0.236	0.138	0.07	20.69	21.80	1.291	0.305	22.4
Back side	20	QPSK 1_104	372000/1860	100%	0.269	0.161	-0.11	20.69	21.80	1.291	0.347	22.4
Left side	20	QPSK 1_104	372000/1860	100%	0.226	0.117	-0.15	20.69	21.80	1.291	0.292	22.4
Top side	20	QPSK 1_104	372000/1860	100%	0.478	0.278	0.11	20.69	21.80	1.291	0.617	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	20	QPSK 50_28	380000/1900	100%	0.228	0.137	-0.08	20.52	21.80	1.343	0.306	22.4
Back side	20	QPSK 50_28	380000/1900	100%	0.231	0.133	0.17	20.52	21.80	1.343	0.310	22.4
Left side	20	QPSK 50_28	380000/1900	100%	0.198	0.104	0.07	20.52	21.80	1.343	0.266	22.4
Top side	20	QPSK 50_28	380000/1900	100%	0.431	0.239	0.00	20.52	21.80	1.343	0.579	22.4
Ant 12 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_53	376000/1880	100%	0.158	0.094	0.17	18.19	18.80	1.151	0.182	22.3
Left tilted	20	QPSK 1_53	376000/1880	100%	0.065	0.038	-0.04	18.19	18.80	1.151	0.075	22.3
Right cheek	20	QPSK 1_53	376000/1880	100%	0.501	0.252	-0.05	18.19	18.80	1.151	0.577	22.3
Right tilted	20	QPSK 1_53	376000/1880	100%	0.157	0.083	-0.02	18.19	18.80	1.151	0.181	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	372000/1860	100%	0.171	0.104	-0.05	17.97	18.80	1.211	0.207	22.3
Left tilted	20	QPSK 50_28	372000/1860	100%	0.071	0.044	-0.12	17.97	18.80	1.211	0.086	22.3
Right cheek	20	QPSK 50_28	372000/1860	100%	0.517	0.235	0.12	17.97	18.80	1.211	0.626	22.3
Right tilted	20	QPSK 50_28	372000/1860	100%	0.174	0.092	-0.08	17.97	18.80	1.211	0.211	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_53	376000/1880	100%	0.115	0.063	-0.09	22.61	23.30	1.172	0.135	22.3
Back side	20	QPSK 1_53	376000/1880	100%	0.133	0.075	-0.06	22.61	23.30	1.172	0.156	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	380000/1900	100%	0.110	0.060	0.12	22.47	23.30	1.211	0.133	22.3
Back side	20	QPSK 50_28	380000/1900	100%	0.127	0.071	0.13	22.47	23.30	1.211	0.154	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_53	376000/1880	100%	0.213	0.111	-0.14	21.04	21.80	1.191	0.254	22.3
Back side	20	QPSK 1_53	376000/1880	100%	0.264	0.137	0.06	21.04	21.80	1.191	0.314	22.3
Left side	20	QPSK 1_53	376000/1880	100%	0.487	0.231	0.12	21.04	21.80	1.191	0.580	22.3
Top side	20	QPSK 1_53	376000/1880	100%	0.440	0.025	-0.15	21.04	21.80	1.191	0.524	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	380000/1900	100%	0.192	0.099	-0.19	21.00	21.80	1.202	0.231	22.3
Back side	20	QPSK 50_28	380000/1900	100%	0.223	0.114	0.08	21.00	21.80	1.202	0.268	22.3
Left side	20	QPSK 50_28	380000/1900	100%	0.438	0.211	-0.03	21.00	21.80	1.202	0.527	22.3
Top side	20	QPSK 50_28	380000/1900	100%	0.049	0.028	0.18	21.00	21.80	1.202	0.059	22.3



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Ant 24 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_104	380000/1900	100%	0.380	0.171	0.02	19.00	20.30	1.349	0.513	22.3
Left tilted	20	QPSK 1_104	380000/1900	100%	0.121	0.064	-0.02	19.00	20.30	1.349	0.163	22.3
Right cheek	20	QPSK 1_104	380000/1900	100%	0.086	0.051	0.01	19.00	20.30	1.349	0.116	22.3
Right tilted	20	QPSK 1_104	380000/1900	100%	0.048	0.027	0.04	19.00	20.30	1.349	0.065	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	380000/1900	100%	0.419	0.189	0.09	18.93	20.30	1.371	0.574	22.3
Left tilted	20	QPSK 50_28	380000/1900	100%	0.131	0.068	-0.04	18.93	20.30	1.371	0.180	22.3
Right cheek	20	QPSK 50_28	380000/1900	100%	0.091	0.053	0.01	18.93	20.30	1.371	0.125	22.3
Right tilted	20	QPSK 50_28	380000/1900	100%	0.054	0.030	0.06	18.93	20.30	1.371	0.074	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_104	380000/1900	100%	0.028	0.010	-0.07	21.56	22.80	1.330	0.037	22.3
Back side	20	QPSK 1_104	380000/1900	100%	0.035	0.014	0.10	21.56	22.80	1.330	0.047	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	380000/1900	100%	0.026	0.009	-0.13	21.39	22.80	1.384	0.036	22.3
Back side	20	QPSK 50_28	380000/1900	100%	0.035	0.014	0.17	21.39	22.80	1.384	0.048	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_104	380000/1900	100%	0.054	0.030	-0.18	21.56	22.80	1.330	0.072	22.3
Back side	20	QPSK 1_104	380000/1900	100%	0.070	0.038	-0.19	21.56	22.80	1.330	0.093	22.3
Right side	20	QPSK 1_104	380000/1900	100%	0.096	0.047	0.02	21.56	22.80	1.330	0.128	22.3
Top side	20	QPSK 1_104	380000/1900	100%	0.042	0.016	-0.02	21.56	22.80	1.330	0.056	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	380000/1900	100%	0.061	0.034	-0.10	21.39	22.80	1.384	0.084	22.3
Back side	20	QPSK 50_28	380000/1900	100%	0.075	0.040	0.16	21.39	22.80	1.384	0.104	22.3
Right side	20	QPSK 50_28	380000/1900	100%	0.094	0.048	-0.16	21.39	22.80	1.384	0.130	22.3
Top side	20	QPSK 50_28	380000/1900	100%	0.040	0.014	0.17	21.39	22.80	1.384	0.055	22.3



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8.2.15 SAR Result of NR Band n7

SA N7 SAR Test Record												
Ant 41 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_108	507000/2535	100%	0.277	0.149	0.01	24.04	25.50	1.400	0.388	22.2
Left tilted	40	QPSK 1_108	507000/2535	100%	0.088	0.046	0.04	24.04	25.50	1.400	0.123	22.2
Right cheek	40	QPSK 1_108	507000/2535	100%	0.157	0.090	-0.05	24.04	25.50	1.400	0.220	22.2
Right tilted	40	QPSK 1_108	507000/2535	100%	0.182	0.092	-0.16	24.04	25.50	1.400	0.255	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	507000/2535	100%	0.267	0.144	-0.19	24.16	25.50	1.361	0.364	22.2
Left tilted	40	QPSK 108_54	507000/2535	100%	0.078	0.042	-0.18	24.16	25.50	1.361	0.106	22.2
Right cheek	40	QPSK 108_54	507000/2535	100%	0.155	0.089	-0.13	24.16	25.50	1.361	0.211	22.2
Right tilted	40	QPSK 108_54	507000/2535	100%	0.163	0.082	0.07	24.16	25.50	1.361	0.222	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_108	510000/2550	100%	0.169	0.092	0.02	20.53	21.80	1.340	0.226	22.2
Back side	40	QPSK 1_108	510000/2550	100%	0.212	0.111	-0.08	20.53	21.80	1.340	0.284	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	504000/2520	100%	0.156	0.084	-0.02	20.71	21.80	1.285	0.201	22.2
Back side	40	QPSK 108_54	504000/2520	100%	0.197	0.104	-0.07	20.71	21.80	1.285	0.253	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_214	510000/2550	100%	0.170	0.089	0.14	19.36	20.30	1.242	0.211	22.2
Back side	40	QPSK 1_214	510000/2550	100%	0.226	0.110	0.12	19.36	20.30	1.242	0.281	22.2
Left side	40	QPSK 1_214	510000/2550	100%	0.050	0.027	-0.12	19.36	20.30	1.242	0.062	22.2
Bottom side	40	QPSK 1_214	510000/2550	100%	0.353	0.169	0.19	19.36	20.30	1.242	0.438	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	507000/2535	100%	0.180	0.092	0.12	19.45	20.30	1.216	0.219	22.2
Back side	40	QPSK 108_54	507000/2535	100%	0.235	0.113	-0.09	19.45	20.30	1.216	0.286	22.2
Left side	40	QPSK 108_54	507000/2535	100%	0.057	0.030	0.11	19.45	20.30	1.216	0.069	22.2
Bottom side	40	QPSK 108_54	507000/2535	100%	0.370	0.190	-0.01	19.45	20.30	1.216	0.450	22.2
Ant 14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_214	507000/2535	100%	0.316	0.168	-0.17	16.81	17.50	1.172	0.370	22.2
Left tilted	40	QPSK 1_214	507000/2535	100%	0.371	0.184	0.15	16.81	17.50	1.172	0.435	22.2
Right cheek	40	QPSK 1_214	507000/2535	100%	0.612	0.305	0.01	16.81	17.50	1.172	0.717	22.2
Right tilted	40	QPSK 1_214	507000/2535	100%	0.717	0.339	-0.17	16.81	17.50	1.172	0.840	22.2
Right tilted	40	QPSK 1_214	504000/2520	100%	0.729	0.344	-0.10	16.70	17.50	1.202	0.876	22.2
Right tilted	40	QPSK 1_1	510000/2550	100%	0.741	0.349	-0.11	16.80	17.50	1.175	0.871	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	504000/2520	100%	0.275	0.148	0.02	16.71	17.50	1.199	0.330	22.2
Left tilted	40	QPSK 108_54	504000/2520	100%	0.336	0.167	0.10	16.71	17.50	1.199	0.403	22.2



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Right cheek	40	QPSK 108_54	504000/2520	100%	0.646	0.320	-0.08	16.71	17.50	1.199	0.775	22.2
Right tilted	40	QPSK 108_54	504000/2520	100%	0.693	0.327	0.16	16.71	17.50	1.199	0.831	22.2
Right tilted	40	QPSK 108_54	507000/2535	100%	0.737	0.343	-0.15	16.69	17.50	1.205	0.888	22.2
Right tilted	40	QPSK 108_54	510000/2550	100%	0.714	0.339	0.11	16.68	17.50	1.208	0.862	22.2
Head Test Data (100%RB) DSI 2												
Right tilted	40	QPSK 216_0	510000/2550	100%	0.575	0.271	0.19	15.77	16.50	1.183	0.680	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_1	507000/2535	100%	0.240	0.124	-0.03	23.87	24.70	1.211	0.291	22.2
Back side	40	QPSK 1_1	507000/2535	100%	0.347	0.182	-0.05	23.87	24.70	1.211	0.420	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	504000/2520	100%	0.276	0.153	-0.08	23.74	24.70	1.247	0.344	22.2
Back side	40	QPSK 108_54	504000/2520	100%	0.370	0.193	-0.13	23.74	24.70	1.247	0.462	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	40	QPSK 1_1	507000/2535	100%	0.225	0.115	-0.04	19.34	20.00	1.164	0.262	22.2
Back side	40	QPSK 1_1	507000/2535	100%	0.136	0.072	-0.01	19.34	20.00	1.164	0.158	22.2
Left side	40	QPSK 1_1	507000/2535	100%	0.119	0.061	0.18	19.34	20.00	1.164	0.139	22.2
Top side	40	QPSK 1_1	507000/2535	100%	0.293	0.136	-0.03	19.34	20.00	1.164	0.341	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	40	QPSK 108_54	510000/2550	100%	0.239	0.121	0.18	19.20	20.00	1.202	0.287	22.2
Back side	40	QPSK 108_54	510000/2550	100%	0.161	0.084	0.04	19.20	20.00	1.202	0.194	22.2
Left side	40	QPSK 108_54	510000/2550	100%	0.125	0.063	-0.04	19.20	20.00	1.202	0.150	22.2
Top side	40	QPSK 108_54	510000/2550	100%	0.375	0.184	-0.07	19.20	20.00	1.202	0.451	22.2
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI 5												
Top side	40	QPSK 1_1	507000/2535	1:1.58	6.020	2.210	-0.03	20.85	21.50	1.161	2.567	22.2
Top side	40	QPSK 1_1	504000/2520	1:1.58	4.940	1.750	0.04	20.63	21.50	1.222	2.138	22.2
Top side	40	QPSK 1_108	510000/2550	1:1.58	5.210	1.870	-0.04	20.83	21.50	1.167	2.182	22.2
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI 5												
Top side	40	QPSK 108_54	504000/2520	1:1.58	5.220	1.890	0.08	20.78	21.50	1.180	2.231	22.2
Top side	40	QPSK 108_54	507000/2535	1:1.58	6.370	2.310	-0.09	20.57	21.50	1.239	2.862	22.2
Top side	40	QPSK 108_54	510000/2550	1:1.58	5.050	1.810	0.11	20.63	21.50	1.222	2.211	22.2
Top side-Repeated	40	QPSK 108_54	507000/2535	1:1.58	6.140	2.283	0.13	20.57	21.50	1.239	2.828	22.2
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI 5												
Top side	40	QPSK 216_0	507000/2535	1:1.58	4.230	1.540	0.18	19.84	20.50	1.164	1.793	22.2
Product specific 10g SAR Test data (Sensor off 1RB) DSI 4												
Top side with 11mm	40	QPSK 1_1	507000/2535	1:1.58	0.681	0.330	-0.16	23.87	24.70	1.211	0.399	22.2
Product specific 10g SAR Test data (Sensor off 50%RB) DSI 4												
Top side with 11mm	40	QPSK 108_54	504000/2520	1:1.58	0.698	0.338	0.14	23.74	24.70	1.247	0.422	22.2
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI 8												
Top side	40	QPSK 1_1	507000/2535	1:1.58	6.020	2.210	-0.03	20.85	20.00	0.822	1.817	22.2
Top side	40	QPSK 1_1	504000/2520	1:1.58	4.940	1.750	0.04	20.63	20.00	0.865	1.514	22.2
Top side	40	QPSK 1_108	510000/2550	1:1.58	5.210	1.870	-0.04	20.83	20.00	0.826	1.545	22.2
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI 8												
Top side	40	QPSK 108_54	504000/2520	1:1.58	5.220	1.890	0.08	20.78	20.00	0.836	1.579	22.2



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Top side	40	QPSK 108_54	507000/2535	1:1.58	6.370	2.310	-0.09	20.57	20.00	0.877	2.026	22.2
Top side	40	QPSK 108_54	510000/2550	1:1.58	5.050	1.810	0.11	20.63	20.00	0.865	1.566	22.2
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI 8												
Top side	40	QPSK 216_0	507000/2535	1:1.58	4.230	1.540	0.18	19.84	19.00	0.824	1.269	22.2
Product specific 10g SAR Test data (Sensor off 1RB) DSI 9												
Top side with 11mm	40	QPSK 1_1	507000/2535	1:1.58	0.681	0.330	-0.16	23.87	20.00	0.410	0.135	22.2
Product specific 10g SAR Test data (Sensor off 50%RB) DSI 9												
Top side with 11mm	40	QPSK 108_54	504000/2520	1:1.58	0.698	0.338	0.14	23.74	20.00	0.423	0.143	22.2
Ant12 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_214	510000/2550	100%	0.092	0.053	0.00	14.38	15.20	1.208	0.111	22.1
Left tilted	40	QPSK 1_214	510000/2550	100%	0.047	0.025	0.07	14.38	15.20	1.208	0.057	22.1
Right cheek	40	QPSK 1_214	510000/2550	100%	0.321	0.152	-0.12	14.38	15.20	1.208	0.388	22.1
Right tilted	40	QPSK 1_214	510000/2550	100%	0.112	0.056	-0.17	14.38	15.20	1.208	0.135	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	504000/2520	100%	0.092	0.051	0.07	13.99	15.20	1.321	0.122	22.1
Left tilted	40	QPSK 108_54	504000/2520	100%	0.053	0.029	-0.14	13.99	15.20	1.321	0.070	22.1
Right cheek	40	QPSK 108_54	504000/2520	100%	0.315	0.160	0.08	13.99	15.20	1.321	0.416	22.1
Right tilted	40	QPSK 108_54	504000/2520	100%	0.120	0.059	-0.10	13.99	15.20	1.321	0.159	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_214	504000/2520	100%	0.080	0.042	-0.09	18.43	19.20	1.194	0.096	22.1
Back side	40	QPSK 1_214	504000/2520	100%	0.100	0.052	-0.05	18.43	19.20	1.194	0.119	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	504000/2520	100%	0.091	0.047	0.05	18.08	19.20	1.294	0.118	22.1
Back side	40	QPSK 108_54	504000/2520	100%	0.109	0.057	0.02	18.08	19.20	1.294	0.141	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_214	504000/2520	100%	0.124	0.064	-0.11	17.02	17.70	1.169	0.145	22.1
Back side	40	QPSK 1_214	504000/2520	100%	0.152	0.076	0.02	17.02	17.70	1.169	0.178	22.1
Left side	40	QPSK 1_214	504000/2520	100%	0.213	0.102	0.15	17.02	17.70	1.169	0.249	22.1
Top side	40	QPSK 1_214	504000/2520	100%	0.030	0.007	-0.08	17.02	17.70	1.169	0.035	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	504000/2520	100%	0.129	0.064	0.11	16.64	17.70	1.276	0.165	22.1
Back side	40	QPSK 108_54	504000/2520	100%	0.149	0.074	-0.08	16.64	17.70	1.276	0.190	22.1
Left side	40	QPSK 108_54	504000/2520	100%	0.222	0.104	0.11	16.64	17.70	1.276	0.283	22.1
Top side	40	QPSK 108_54	504000/2520	100%	0.035	0.009	0.05	16.64	17.70	1.276	0.045	22.1
Ant24 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_1	507000/2535	100%	0.522	0.232	-0.01	15.13	16.20	1.279	0.668	22.1
Left tilted	40	QPSK 1_1	507000/2535	100%	0.272	0.126	-0.03	15.13	16.20	1.279	0.348	22.1
Right cheek	40	QPSK 1_1	507000/2535	100%	0.141	0.072	0.17	15.13	16.20	1.279	0.180	22.1
Right tilted	40	QPSK 1_1	507000/2535	100%	0.108	0.053	0.04	15.13	16.20	1.279	0.138	22.1



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Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK 108_54	504000/2520	100%	0.545	0.241	0.02	15.29	16.20	1.233	0.672	22.1
Left tilted	40	QPSK 108_54	504000/2520	100%	0.288	0.132	-0.04	15.29	16.20	1.233	0.355	22.1
Right cheek	40	QPSK 108_54	504000/2520	100%	0.168	0.086	0.10	15.29	16.20	1.233	0.207	22.1
Right tilted	40	QPSK 108_54	504000/2520	100%	0.114	0.057	-0.13	15.29	16.20	1.233	0.141	22.1
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_214	510000/2550	100%	0.097	0.051	0.02	19.14	20.20	1.276	0.124	22.1
Back side	40	QPSK 1_214	510000/2550	100%	0.112	0.056	0.12	19.14	20.20	1.276	0.143	22.1
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK 108_54	504000/2520	100%	0.115	0.062	0.15	19.22	20.20	1.253	0.144	22.1
Back side	40	QPSK 108_54	504000/2520	100%	0.132	0.068	-0.19	19.22	20.20	1.253	0.165	22.1
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_1	507000/2535	100%	0.168	0.084	0.08	18.17	19.20	1.268	0.213	22.1
Back side	40	QPSK 1_1	507000/2535	100%	0.217	0.106	0.18	18.17	19.20	1.268	0.275	22.1
Right side	40	QPSK 1_1	507000/2535	100%	0.320	0.174	-0.15	18.17	19.20	1.268	0.406	22.1
Top side	40	QPSK 1_1	507000/2535	100%	0.064	0.035	-0.17	18.17	19.20	1.268	0.081	22.1
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK 108_54	504000/2520	100%	0.175	0.089	0.13	18.23	19.20	1.250	0.219	22.1
Back side	40	QPSK 108_54	504000/2520	100%	0.288	0.108	0.01	18.23	19.20	1.250	0.360	22.1
Right side	40	QPSK 108_54	504000/2520	100%	0.345	0.178	0.09	18.23	19.20	1.250	0.431	22.1
Top side	40	QPSK 108_54	504000/2520	100%	0.067	0.034	0.01	18.23	19.20	1.250	0.084	22.1

Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Top side	507000/2535	2.310	2.283	1.01182654	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.						



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8.2.16 SAR Result of NR Band n26

SA N26 SAR Test Record												
Ant 31 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_1	166300/831.5	100%	0.122	0.084	-0.11	24.43	25.50	1.279	0.156	22.2
Left tilted	20	QPSK 1_1	166300/831.5	100%	0.066	0.049	0.12	24.43	25.50	1.279	0.084	22.2
Right cheek	20	QPSK 1_1	166300/831.5	100%	0.140	0.102	0.05	24.43	25.50	1.279	0.179	22.2
Right tilted	20	QPSK 1_1	166300/831.5	100%	0.084	0.062	-0.11	24.43	25.50	1.279	0.107	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	164800/824	100%	0.126	0.086	0.00	24.43	25.50	1.279	0.161	22.2
Left tilted	20	QPSK 50_28	164800/824	100%	0.066	0.049	0.13	24.43	25.50	1.279	0.084	22.2
Right cheek	20	QPSK 50_28	164800/824	100%	0.143	0.105	-0.18	24.43	25.50	1.279	0.183	22.2
Right tilted	20	QPSK 50_28	164800/824	100%	0.088	0.065	0.04	24.43	25.50	1.279	0.113	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_1	166300/831.5	100%	0.109	0.077	-0.02	24.43	25.50	1.279	0.139	22.2
Back side	20	QPSK 1_1	166300/831.5	100%	0.117	0.082	-0.15	24.43	25.50	1.279	0.150	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	164800/824	100%	0.098	0.069	-0.11	24.43	25.50	1.279	0.125	22.2
Back side	20	QPSK 50_28	164800/824	100%	0.116	0.081	0.10	24.43	25.50	1.279	0.148	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_1	166300/831.5	100%	0.112	0.072	-0.13	23.41	24.50	1.285	0.144	22.2
Back side	20	QPSK 1_1	166300/831.5	100%	0.164	0.102	0.15	23.41	24.50	1.285	0.211	22.2
Right side	20	QPSK 1_1	166300/831.5	100%	0.151	0.100	-0.11	23.41	24.50	1.285	0.194	22.2
Bottom side	20	QPSK 1_1	166300/831.5	100%	0.090	0.054	-0.02	23.41	24.50	1.285	0.116	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	164800/824	100%	0.118	0.076	-0.13	23.48	24.50	1.265	0.149	22.2
Back side	20	QPSK 50_28	164800/824	100%	0.165	0.103	0.14	23.48	24.50	1.265	0.209	22.2
Right side	20	QPSK 50_28	164800/824	100%	0.142	0.093	-0.08	23.48	24.50	1.265	0.180	22.2
Bottom side	20	QPSK 50_28	164800/824	100%	0.092	0.055	0.07	23.48	24.50	1.265	0.116	22.2
Ant 11 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	20	QPSK 1_53	167800/839	100%	0.567	0.282	-0.17	22.27	23.50	1.327	0.753	22.2
Left tilted	20	QPSK 1_53	167800/839	100%	0.110	0.080	0.05	22.27	23.50	1.327	0.146	22.2
Right cheek	20	QPSK 1_53	167800/839	100%	0.388	0.211	-0.12	22.27	23.50	1.327	0.515	22.2
Right tilted	20	QPSK 1_53	167800/839	100%	0.127	0.083	0.08	22.27	23.50	1.327	0.169	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	167800/839	100%	0.633	0.355	0.02	22.50	23.50	1.259	0.797	22.2
Left tilted	20	QPSK 50_28	167800/839	100%	0.114	0.082	0.14	22.50	23.50	1.259	0.144	22.2
Right cheek	20	QPSK 50_28	167800/839	100%	0.374	0.205	0.17	22.50	23.50	1.259	0.471	22.2



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Right tilted	20	QPSK 50_28	167800/839	100%	0.119	0.078	0.17	22.50	23.50	1.259	0.150	22.2
Head Test Data (1RB) DSI 3												
Left cheek	20	QPSK 1_53	167800/839	100%	0.567	0.282	-0.17	22.27	22.50	1.054	0.598	22.2
Left tilted	20	QPSK 1_53	167800/839	100%	0.110	0.080	0.05	22.27	22.50	1.054	0.116	22.2
Right cheek	20	QPSK 1_53	167800/839	100%	0.388	0.211	-0.12	22.27	22.50	1.054	0.409	22.2
Right tilted	20	QPSK 1_53	167800/839	100%	0.127	0.083	0.08	22.27	22.50	1.054	0.134	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	20	QPSK 50_28	167800/839	100%	0.633	0.355	0.02	22.50	22.50	1.000	0.633	22.2
Left tilted	20	QPSK 50_28	167800/839	100%	0.114	0.082	0.14	22.50	22.50	1.000	0.114	22.2
Right cheek	20	QPSK 50_28	167800/839	100%	0.374	0.205	0.17	22.50	22.50	1.000	0.374	22.2
Right tilted	20	QPSK 50_28	167800/839	100%	0.119	0.078	0.17	22.50	22.50	1.000	0.119	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	20	QPSK 1_53	167800/839	100%	0.398	0.248	-0.03	24.28	25.50	1.324	0.527	22.2
Back side	20	QPSK 1_53	167800/839	100%	0.437	0.275	0.13	24.28	25.50	1.324	0.579	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	20	QPSK 50_28	167800/839	100%	0.404	0.250	0.12	24.19	25.50	1.352	0.546	22.2
Back side	20	QPSK 50_28	167800/839	100%	0.439	0.297	0.04	24.19	25.50	1.352	0.594	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	20	QPSK 1_53	167800/839	100%	0.311	0.184	0.19	21.81	23.00	1.315	0.409	22.2
Back side	20	QPSK 1_53	167800/839	100%	0.341	0.205	0.05	21.81	23.00	1.315	0.448	22.2
Left side	20	QPSK 1_53	167800/839	100%	0.683	0.377	0.05	21.81	23.00	1.315	0.898	22.2
Bottom side	20	QPSK 1_53	167800/839	100%	0.041	0.026	0.18	21.81	23.00	1.315	0.054	22.2
Left side	20	QPSK 1_1	164800/824	100%	0.543	0.305	0.14	21.77	23.00	1.327	0.721	22.2
Left side	20	QPSK 1_104	166300/831.5	100%	0.738	0.455	-0.05	21.80	23.00	1.318	0.973	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	20	QPSK 50_28	164800/824	100%	0.267	0.156	-0.17	21.69	23.00	1.352	0.361	22.2
Back side	20	QPSK 50_28	164800/824	100%	0.286	0.171	0.06	21.69	23.00	1.352	0.387	22.2
Left side	20	QPSK 50_28	164800/824	100%	0.618	0.347	-0.08	21.69	23.00	1.352	0.836	22.2
Bottom side	20	QPSK 50_28	164800/824	100%	0.026	0.019	0.06	21.69	23.00	1.352	0.035	22.2
Left side	20	QPSK 50_28	166300/831.5	100%	0.623	0.350	-0.05	21.64	23.00	1.368	0.852	22.2
Left side	20	QPSK 50_28	167800/839	100%	0.634	0.356	0.01	21.65	23.00	1.365	0.865	22.2
Head Test Data (100%RB) DSI 2												
Left side	20	QPSK 50_28	164800/824	100%	0.516	0.098	-0.10	20.79	22.00	1.321	0.682	22.2
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI 5												
Left side	20	QPSK 1_53	167800/839	100%	2.490	1.160	-0.03	22.81	24.00	1.315	1.526	22.2
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI 5												
Left side	20	QPSK 50_28	167800/839	100%	2.670	1.360	-0.06	22.65	24.00	1.365	1.856	22.2
Product specific 10g SAR Test data (Sensor off 1RB) DSI 4												
Left side with 12mm	20	QPSK 1_53	167800/839	100%	0.903	0.513	0.04	24.28	25.50	1.324	0.679	22.2
Product specific 10g SAR Test data (Sensor off 50%RB) DSI 4												
Left side with 12mm	20	QPSK 50_28	167800/839	100%	0.906	0.513	-0.08	24.19	25.50	1.352	0.694	22.2



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8.2.17 SAR Result of NR Band n41

SA N41 SAR Test Record												
Ant41 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	518598/2592.99	100%	0.513	0.270	-0.17	26.96	27.50	1.132	0.581	22.3
Left tilted	100	QPSK 1_271	518598/2592.99	100%	0.154	0.082	0.14	26.96	27.50	1.132	0.174	22.3
Right cheek	100	QPSK 1_271	518598/2592.99	100%	0.311	0.176	-0.05	26.96	27.50	1.132	0.352	22.3
Right tilted	100	QPSK 1_271	518598/2592.99	100%	0.312	0.158	0.10	26.96	27.50	1.132	0.353	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	518598/2592.99	100%	0.483	0.259	-0.10	26.82	27.50	1.169	0.565	22.3
Left tilted	100	QPSK 135_69	518598/2592.99	100%	0.128	0.067	0.07	26.82	27.50	1.169	0.150	22.3
Right cheek	100	QPSK 135_69	518598/2592.99	100%	0.275	0.155	-0.11	26.82	27.50	1.169	0.322	22.3
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.228	0.119	-0.11	26.82	27.50	1.169	0.267	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	518598/2592.99	100%	0.184	0.099	-0.01	21.03	21.50	1.114	0.205	22.3
Back side	100	QPSK 1_271	518598/2592.99	100%	0.239	0.127	0.13	21.03	21.50	1.114	0.266	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.191	0.102	-0.09	20.85	21.50	1.161	0.222	22.3
Back side	100	QPSK 135_69	518598/2592.99	100%	0.256	0.134	-0.14	20.85	21.50	1.161	0.297	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	518598/2592.99	100%	0.253	0.128	0.11	19.39	20.00	1.151	0.291	22.3
Back side	100	QPSK 1_137	518598/2592.99	100%	0.330	0.159	-0.04	19.39	20.00	1.151	0.380	22.3
Left side	100	QPSK 1_137	518598/2592.99	100%	0.076	0.040	0.00	19.39	20.00	1.151	0.087	22.3
Bottom side	100	QPSK 1_137	518598/2592.99	100%	0.529	0.265	-0.07	19.39	20.00	1.151	0.609	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	518598/2592.99	100%	0.255	0.128	0.01	19.38	20.00	1.153	0.294	22.3
Back side	100	QPSK 135_69	518598/2592.99	100%	0.329	0.163	-0.03	19.38	20.00	1.153	0.379	22.3
Left side	100	QPSK 135_69	518598/2592.99	100%	0.078	0.046	0.04	19.38	20.00	1.153	0.090	22.3
Bottom side	100	QPSK 135_69	518598/2592.99	100%	0.558	0.265	-0.18	19.38	20.00	1.153	0.644	22.3
Ant14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_1	509202/2546.01	100%	0.289	0.156	-0.13	17.80	18.00	1.047	0.303	22.3
Left tilted	100	QPSK 1_1	509202/2546.01	100%	0.336	0.168	0.18	17.80	18.00	1.047	0.352	22.3
Right cheek	100	QPSK 1_1	509202/2546.01	100%	0.681	0.336	-0.06	17.80	18.00	1.047	0.713	22.3
Right tilted	100	QPSK 1_1	509202/2546.01	100%	0.721	0.335	0.10	17.80	18.00	1.047	0.755	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	509202/2546.01	100%	0.303	0.164	-0.17	17.53	18.00	1.114	0.338	22.3
Left tilted	100	QPSK 135_69	509202/2546.01	100%	0.364	0.181	-0.13	17.53	18.00	1.114	0.406	22.3



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Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.646	0.323	0.03	17.53	18.00	1.114	0.720	22.3
Right tilted	100	QPSK 135_69	509202/2546.01	100%	0.749	0.348	-0.05	17.53	18.00	1.114	0.835	22.3
Right tilted	100	QPSK 135_69	513900/2569.5	100%	0.675	0.355	-0.01	17.24	18.00	1.191	0.804	22.3
Right tilted	100	QPSK 135_69	518598/2592.99	100%	0.625	0.349	-0.06	17.35	18.00	1.161	0.726	22.3
Right tilted	100	QPSK 135_69	523302/2616.51	100%	0.649	0.334	0.18	17.40	18.00	1.148	0.745	22.3
Right tilted	100	QPSK 135_69	528000/2640	100%	0.665	0.321	-0.02	17.47	18.00	1.130	0.751	22.3
Head Test Data (100%RB) DSI 2												
Right tilted	100	QPSK 270_0	528000/2640	100%	0.533	0.255	0.04	16.61	17.00	1.094	0.583	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.353	0.19	-0.11	25.72	26.00	1.067	0.377	22.3
Back side	100	QPSK 1_1	509202/2546.01	100%	0.385	0.199	-0.03	25.72	26.00	1.067	0.411	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	509202/2546.01	100%	0.371	0.199	-0.12	25.53	26.00	1.114	0.413	22.3
Back side	100	QPSK 135_69	509202/2546.01	100%	0.419	0.225	-0.06	25.53	26.00	1.114	0.467	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.180	0.093	-0.10	20.28	20.50	1.052	0.189	22.3
Back side	100	QPSK 1_1	509202/2546.01	100%	0.260	0.134	0.06	20.28	20.50	1.052	0.274	22.3
Left side	100	QPSK 1_1	509202/2546.01	100%	0.176	0.087	-0.06	20.28	20.50	1.052	0.185	22.3
Top side	100	QPSK 1_1	509202/2546.01	100%	0.329	0.162	0.14	20.36	20.50	1.033	0.340	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	100	QPSK 135_69	509202/2546.01	100%	0.185	0.096	-0.17	19.93	20.50	1.140	0.211	22.3
Back side	100	QPSK 135_69	509202/2546.01	100%	0.270	0.139	0.18	19.93	20.50	1.140	0.308	22.3
Left side	100	QPSK 135_69	509202/2546.01	100%	0.148	0.073	0.01	19.93	20.50	1.140	0.169	22.3
Top side	100	QPSK 135_69	509202/2546.01	100%	0.384	0.179	0.16	19.93	20.50	1.140	0.438	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift (dB)	Conducted power(dBm)	Tune up Limit (dBm)	Scaled factor	Scaled 10-g SAR (W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI 5												
Top side	100	QPSK 1_271	509202/2546.01	100%	4.670	1.910	-0.10	21.74	22.00	1.062	2.028	22.3
Top side	100	QPSK 1_1	513900/2569.5	100%	4.970	2.000	-0.07	21.46	22.00	1.132	2.265	22.3
Top side	100	QPSK 1_137	518598/2592.99	100%	4.940	2.000	-0.04	21.36	22.00	1.159	2.318	22.3
Top side	100	QPSK 1_271	523302/2616.51	100%	4.250	1.730	0.04	21.46	22.00	1.132	1.959	22.3
Top side	100	QPSK 1_137	528000/2640	100%	4.530	1.830	-0.01	21.51	22.00	1.119	2.049	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI 5												
Top side	100	QPSK 135_69	509202/2546.01	100%	4.930	2.000	-0.01	21.54	22.00	1.112	2.223	22.3
Top side	100	QPSK 135_69	513900/2569.5	100%	4.840	1.960	-0.02	21.32	22.00	1.169	2.292	22.3
Top side	100	QPSK 135_69	518598/2592.99	100%	6.260	2.300	-0.19	21.25	22.00	1.189	2.734	22.3
Top side	100	QPSK 135_69	523302/2616.51	100%	4.610	1.870	0.13	21.31	22.00	1.172	2.192	22.3
Top side	100	QPSK 135_69	528000/2640	100%	4.510	1.830	0.11	21.31	22.00	1.172	2.145	22.3
Top side-Repeated	100	QPSK 135_69	518598/2592.99	100%	6.091	2.256	0.08	21.25	22.00	1.189	2.681	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI 5												
Top side	100	QPSK 270_0	528000/2640	100%	3.520	1.430	-0.15	20.60	21.00	1.096	1.568	22.3
Product specific 10g SAR Test data (Sensor off 1RB) DSI 4												
Top side with 11mm	100	QPSK 1_1	509202/2546.01	100%	0.786	0.389	-0.06	24.72	25.20	1.117	0.434	22.3



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Product specific 10g SAR Test data (Sensor off 50%RB) DSI 4												
Top side with 11mm	100	QPSK 135_69	509202/2546.01	100%	0.994	0.473	-0.05	24.53	25.20	1.167	0.552	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI 8												
Top side	100	QPSK 1_271	509202/2546.01	100%	4.670	1.910	-0.10	21.74	20.50	0.752	1.436	22.3
Top side	100	QPSK 1_1	513900/2569.5	100%	4.970	2.000	-0.07	21.46	20.50	0.802	1.603	22.3
Top side	100	QPSK 1_137	518598/2592.99	100%	4.940	2.000	-0.04	21.36	20.50	0.820	1.641	22.3
Top side	100	QPSK 1_271	523302/2616.51	100%	4.250	1.730	0.04	21.46	20.50	0.802	1.387	22.3
Top side	100	QPSK 1_137	528000/2640	100%	4.530	1.830	-0.01	21.51	20.50	0.793	1.450	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI 8												
Top side	100	QPSK 135_69	509202/2546.01	100%	4.930	2.000	-0.01	21.54	20.50	0.787	1.574	22.3
Top side	100	QPSK 135_69	513900/2569.5	100%	4.840	1.960	-0.02	21.32	20.50	0.828	1.623	22.3
Top side	100	QPSK 135_69	518598/2592.99	100%	6.260	2.300	-0.19	21.25	20.50	0.841	1.935	22.3
Top side	100	QPSK 135_69	523302/2616.51	100%	4.610	1.870	0.13	21.31	20.50	0.830	1.552	22.3
Top side	100	QPSK 135_69	528000/2640	100%	4.510	1.830	0.11	21.31	20.50	0.830	1.519	22.3
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI 8												
Top side	100	QPSK 270_0	528000/2640	100%	3.520	1.430	-0.15	20.60	19.50	0.776	1.110	22.3
Product specific 10g SAR Test data (Sensor off 1RB) DSI 9												
Top side with 11mm	100	QPSK 1_1	509202/2546.01	100%	0.786	0.389	-0.06	24.72	20.50	0.378	0.147	22.3
Product specific 10g SAR Test data (Sensor off 50%RB) DSI 9												
Top side with 11mm	100	QPSK 135_69	509202/2546.01	100%	0.994	0.473	-0.05	24.53	20.50	0.395	0.187	22.3
Ant12 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_137	518598/2592.99	100%	0.255	0.126	-0.15	17.71	18.50	1.199	0.306	22.4
Left tilted	100	QPSK 1_137	518598/2592.99	100%	0.111	0.061	-0.12	17.71	18.50	1.199	0.133	22.4
Right cheek	100	QPSK 1_137	518598/2592.99	100%	0.685	0.333	0.03	17.71	18.50	1.199	0.822	22.4
Right tilted	100	QPSK 1_137	518598/2592.99	100%	0.253	0.124	0.05	17.71	18.50	1.199	0.303	22.4
Right cheek	100	QPSK 1_137	509202/2546.01	100%	0.680	0.347	0.03	17.68	18.50	1.208	0.821	22.4
Right cheek	100	QPSK 1_137	513900/2569.5	100%	0.619	0.338	0.14	17.64	18.50	1.219	0.755	22.4
Right cheek	100	QPSK 1_137	523302/2616.51	100%	0.646	0.324	-0.06	17.68	18.50	1.208	0.780	22.4
Right cheek	100	QPSK 1_1	528000/2640	100%	0.627	0.339	0.08	17.64	18.50	1.219	0.764	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	528000/2640	100%	0.203	0.112	-0.08	17.77	18.50	1.183	0.240	22.4
Left tilted	100	QPSK 135_69	528000/2640	100%	0.101	0.054	0.08	17.77	18.50	1.183	0.119	22.4
Right cheek	100	QPSK 135_69	528000/2640	100%	0.635	0.310	0.04	17.77	18.50	1.183	0.751	22.4
Right tilted	100	QPSK 135_69	528000/2640	100%	0.249	0.120	0.05	17.77	18.50	1.183	0.295	22.4
Head Test Data (100%RB) DSI 2												
Right cheek	100	QPSK 270_0	523302/2616.51	100%	0.544	0.253	0.16	16.77	17.50	1.183	0.644	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	513900/2569.5	100%	0.142	0.075	0.09	20.66	21.50	1.213	0.172	22.4
Back side	100	QPSK 1_137	513900/2569.5	100%	0.162	0.085	0.11	20.66	21.50	1.213	0.197	22.4



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Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	528000/2640	100%	0.145	0.075	-0.04	20.71	21.50	1.199	0.174	22.4
Back side	100	QPSK 135_69	528000/2640	100%	0.170	0.088	0.14	20.71	21.50	1.199	0.204	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	513900/2569.5	100%	0.203	0.101	0.07	19.20	20.00	1.202	0.244	22.4
Back side	100	QPSK 1_271	513900/2569.5	100%	0.230	0.113	-0.10	19.20	20.00	1.202	0.277	22.4
Left side	100	QPSK 1_271	513900/2569.5	100%	0.411	0.191	0.14	19.20	20.00	1.202	0.494	22.4
Top side	100	QPSK 1_271	513900/2569.5	100%	0.053	0.029	0.11	19.20	20.00	1.202	0.064	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	528000/2640	100%	0.205	0.100	-0.01	19.30	20.00	1.175	0.241	22.4
Back side	100	QPSK 135_69	528000/2640	100%	0.235	0.117	0.01	19.30	20.00	1.175	0.276	22.4
Left side	100	QPSK 135_69	528000/2640	100%	0.363	0.173	-0.19	19.30	20.00	1.175	0.426	22.4
Top side	100	QPSK 135_69	528000/2640	100%	0.061	0.033	0.02	19.30	20.00	1.175	0.072	22.4
Ant24 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp. (°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_1	509202/2546.01	100%	0.658	0.270	0.01	16.80	17.50	1.175	0.773	22.4
Left tilted	100	QPSK 1_1	509202/2546.01	100%	0.259	0.122	-0.13	16.80	17.50	1.175	0.304	22.4
Right cheek	100	QPSK 1_1	509202/2546.01	100%	0.137	0.069	0.08	16.80	17.50	1.175	0.161	22.4
Right tilted	100	QPSK 1_1	509202/2546.01	100%	0.094	0.046	-0.01	16.80	17.50	1.175	0.110	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	509202/2546.01	100%	0.666	0.290	0.02	16.78	17.50	1.180	0.786	22.4
Left tilted	100	QPSK 135_69	509202/2546.01	100%	0.333	0.159	-0.07	16.55	17.50	1.245	0.414	22.4
Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.194	0.096	-0.06	16.55	17.50	1.245	0.241	22.4
Right tilted	100	QPSK 135_69	509202/2546.01	100%	0.152	0.072	-0.15	16.55	17.50	1.245	0.189	22.4
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_1	509202/2546.01	100%	0.658	0.270	0.01	16.80	16.50	0.933	0.614	22.4
Left tilted	100	QPSK 1_1	509202/2546.01	100%	0.259	0.122	-0.13	16.80	16.50	0.933	0.242	22.4
Right cheek	100	QPSK 1_1	509202/2546.01	100%	0.137	0.069	0.08	16.80	16.50	0.933	0.128	22.4
Right tilted	100	QPSK 1_1	509202/2546.01	100%	0.094	0.046	-0.01	16.80	16.50	0.933	0.088	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	509202/2546.01	100%	0.666	0.290	0.02	16.78	16.50	0.938	0.624	22.4
Left tilted	100	QPSK 135_69	509202/2546.01	100%	0.333	0.159	-0.07	16.55	16.50	0.989	0.329	22.4
Right cheek	100	QPSK 135_69	509202/2546.01	100%	0.194	0.096	-0.06	16.55	16.50	0.989	0.192	22.4
Right tilted	100	QPSK 135_69	509202/2546.01	100%	0.152	0.072	-0.15	16.55	16.50	0.989	0.150	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.119	0.064	-0.14	21.82	22.50	1.169	0.139	22.4
Back side	100	QPSK 1_1	509202/2546.01	100%	0.164	0.083	0.03	21.82	22.50	1.169	0.192	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	523302/2616.51	100%	0.205	0.107	0.17	21.49	22.50	1.262	0.259	22.4
Back side	100	QPSK 135_69	523302/2616.51	100%	0.238	0.121	0.02	21.49	22.50	1.262	0.300	22.4



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Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_1	509202/2546.01	100%	0.291	0.160	0.01	20.40	21.00	1.148	0.334	22.4
Back side	100	QPSK 1_1	509202/2546.01	100%	0.204	0.123	0.07	20.40	21.00	1.148	0.234	22.4
Right side	100	QPSK 1_1	509202/2546.01	100%	0.410	0.214	0.10	20.40	21.00	1.148	0.471	22.4
Top side	100	QPSK 1_1	509202/2546.01	100%	0.147	0.093	-0.19	20.40	21.00	1.148	0.169	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	509202/2546.01	100%	0.343	0.163	0.11	20.25	21.00	1.189	0.408	22.4
Back side	100	QPSK 135_69	509202/2546.01	100%	0.263	0.129	0.07	20.25	21.00	1.189	0.313	22.4
Right side	100	QPSK 135_69	509202/2546.01	100%	0.612	0.300	-0.06	20.25	21.00	1.189	0.727	22.4
Top side	100	QPSK 135_69	509202/2546.01	100%	0.140	0.073	0.17	20.25	21.00	1.189	0.166	22.4

Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Top side	518598/2592.99	2.300	2.256	1.0195035	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.



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8.2.18 SAR Result of NR Band n66

SA N66 SAR Test Record												
Ant41 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_108	349000/1745	100%	0.140	0.086	-0.01	24.59	25.10	1.125	0.157	22.4
Left tilted	40	QPSK 1_108	349000/1745	100%	0.071	0.045	0.04	24.59	25.10	1.125	0.080	22.4
Right cheek	40	QPSK 1_108	349000/1745	100%	0.148	0.090	0.02	24.59	25.10	1.125	0.166	22.4
Right tilted	40	QPSK 1_108	349000/1745	100%	0.069	0.043	0.08	24.59	25.10	1.125	0.078	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK108_54	346000/1730	100%	0.117	0.074	0.08	24.57	25.10	1.130	0.132	22.4
Left tilted	40	QPSK108_54	346000/1730	100%	0.065	0.041	-0.10	24.57	25.10	1.130	0.073	22.4
Right cheek	40	QPSK108_54	346000/1730	100%	0.132	0.081	-0.19	24.57	25.10	1.130	0.149	22.4
Right tilted	40	QPSK108_54	346000/1730	100%	0.057	0.036	0.13	24.57	25.10	1.130	0.064	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_108	349000/1745	100%	0.192	0.120	-0.06	22.18	22.60	1.102	0.211	22.4
Back side	40	QPSK 1_108	349000/1745	100%	0.266	0.157	-0.13	22.18	22.60	1.102	0.293	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK108_54	352000/1760	100%	0.200	0.122	-0.16	22.06	22.60	1.132	0.226	22.4
Back side	40	QPSK108_54	352000/1760	100%	0.282	0.164	0.04	22.06	22.60	1.132	0.319	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_1	349000/1745	100%	0.184	0.104	0.15	19.61	20.10	1.119	0.206	22.4
Back side	40	QPSK 1_1	349000/1745	100%	0.266	0.144	0.18	19.61	20.10	1.119	0.298	22.4
Left side	40	QPSK 1_1	349000/1745	100%	0.071	0.039	-0.13	19.61	20.10	1.119	0.079	22.4
Bottom side	40	QPSK 1_1	349000/1745	100%	0.360	0.188	-0.09	19.61	20.10	1.119	0.403	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK108_54	346000/1730	100%	0.187	0.108	-0.19	19.57	20.10	1.130	0.211	22.4
Back side	40	QPSK108_54	346000/1730	100%	0.265	0.146	0.16	19.57	20.10	1.130	0.299	22.4
Left side	40	QPSK108_54	346000/1730	100%	0.077	0.041	0.19	19.57	20.10	1.130	0.087	22.4
Bottom side	40	QPSK108_54	346000/1730	100%	0.356	0.193	0.01	19.57	20.10	1.130	0.402	22.4
Ant14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_108	346000/1730	100%	0.391	0.267	-0.19	17.82	18.50	1.169	0.457	22.4
Left tilted	40	QPSK 1_108	346000/1730	100%	0.537	0.334	-0.16	17.82	18.50	1.169	0.628	22.4
Right cheek	40	QPSK 1_108	346000/1730	100%	0.596	0.379	0.12	17.82	18.50	1.169	0.697	22.4
Right tilted	40	QPSK 1_108	346000/1730	100%	0.705	0.374	0.07	17.82	18.50	1.169	0.824	22.4
Right tilted	40	QPSK 1_1	349000/1745	100%	0.696	0.367	-0.14	17.68	18.50	1.208	0.841	22.4
Right tilted	40	QPSK 1_1	352000/1760	100%	0.755	0.393	0.09	17.66	18.50	1.213	0.916	22.4
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK108_54	349000/1745	100%	0.413	0.283	0.05	17.76	18.50	1.186	0.490	22.4
Left tilted	40	QPSK108_54	349000/1745	100%	0.482	0.306	0.14	17.76	18.50	1.186	0.572	22.4



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Right cheek	40	QPSK108_54	349000/1745	100%	0.695	0.421	-0.10	17.76	18.50	1.186	0.824	22.4
Right tilted	40	QPSK108_54	349000/1745	100%	0.764	0.402	0.09	17.76	18.50	1.186	0.906	22.4
Right cheek	40	QPSK108_54	346000/1730	100%	0.747	0.446	-0.16	17.61	18.50	1.227	0.917	22.4
Right cheek	40	QPSK108_54	352000/1760	100%	0.812	0.467	0.02	17.71	18.50	1.199	0.974	22.4
Right tilted	40	QPSK108_54	346000/1730	100%	0.742	0.401	0.08	17.61	18.50	1.227	0.911	22.4
Right tilted	40	QPSK108_54	352000/1760	100%	0.761	0.412	-0.07	17.71	18.50	1.199	0.913	22.4
Right cheek-Repeated	40	QPSK108_54	352000/1760	100%	0.798	0.432	-0.03	17.71	18.50	1.199	0.957	22.4
Head Test Data (100%RB) DSI 2												
Right cheek	40	QPSK216_0	349000/1745	100%	0.566	0.346	0.14	16.79	17.50	1.178	0.667	22.4
Right tilted	40	QPSK216_0	349000/1745	100%	0.608	0.320	0.01	16.79	17.50	1.178	0.716	22.4
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_108	346000/1730	100%	0.321	0.205	0.16	23.74	24.50	1.191	0.382	22.4
Back side	40	QPSK 1_108	346000/1730	100%	0.409	0.247	-0.14	23.74	24.50	1.191	0.487	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK108_54	349000/1745	100%	0.337	0.227	0.10	23.79	24.50	1.178	0.397	22.4
Back side	40	QPSK108_54	349000/1745	100%	0.428	0.282	0.03	23.79	24.50	1.178	0.504	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	40	QPSK 1_108	349000/1745	100%	0.187	0.121	-0.13	18.69	19.50	1.205	0.225	22.4
Back side	40	QPSK 1_108	349000/1745	100%	0.154	0.098	-0.01	18.69	19.50	1.205	0.186	22.4
Left side	40	QPSK 1_108	349000/1745	100%	0.085	0.046	0.07	18.69	19.50	1.205	0.102	22.4
Top side	40	QPSK 1_108	349000/1745	100%	0.348	0.183	-0.16	18.69	19.50	1.205	0.419	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	40	QPSK108_54	349000/1745	100%	0.210	0.134	0.08	18.73	19.50	1.194	0.251	22.4
Back side	40	QPSK108_54	349000/1745	100%	0.177	0.113	0.08	18.73	19.50	1.194	0.211	22.4
Left side	40	QPSK108_54	349000/1745	100%	0.096	0.053	-0.04	18.73	19.50	1.194	0.115	22.4
Top side	40	QPSK108_54	349000/1745	100%	0.355	0.202	0.03	18.73	19.50	1.194	0.424	22.4
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)1-g	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI 5												
Top side	40	QPSK 1_1	349000/1745	100%	4.960	2.050	-0.16	20.90	21.50	1.148	2.354	22.4
Top side	40	QPSK 1_1	346000/1730	100%	4.092	1.798	-0.13	20.76	21.50	1.186	2.132	22.4
Top side	40	QPSK 1_1	352000/1760	100%	4.035	1.798	0.08	20.69	21.50	1.205	2.167	22.4
Top side-Repeated	40	QPSK 1_1	349000/1745	100%	4.880	1.942	0.07	20.90	21.50	1.148	2.230	22.4
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI 5												
Top side	40	QPSK108_54	349000/1745	100%	4.014	1.791	-0.13	20.85	21.50	1.161	2.080	22.4
Top side	40	QPSK108_54	346000/1730	100%	4.099	1.812	-0.19	20.59	21.50	1.233	2.234	22.4
Top side	40	QPSK108_54	352000/1760	100%	3.887	1.742	0.03	20.66	21.50	1.213	2.114	22.4
Product specific 10g SAR Test data (Sensor on Separate 0mm 100%RB) DSI 5												
Top side	40	QPSK216_0	346000/1730	100%	4.400	1.970	0.01	19.89	20.50	1.151	2.267	22.4
Product specific 10g SAR Test data (Sensor off 1RB) DSI 4												
Top side with 11mm	40	QPSK 1_108	346000/1730	100%	0.786	0.432	0.00	23.74	24.50	1.191	0.515	22.4
Product specific 10g SAR Test data (Sensor off 50%RB) DSI 4												
Top side with 11mm	40	QPSK108_54	349000/1745	100%	0.889	0.492	0.02	23.79	24.50	1.178	0.579	22.4



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Ant12 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_108	346000/1730	100%	0.174	0.105	-0.09	18.22	19.00	1.197	0.208	22.3
Left tilted	40	QPSK 1_108	346000/1730	100%	0.085	0.051	0.03	18.22	19.00	1.197	0.102	22.3
Right cheek	40	QPSK 1_108	346000/1730	100%	0.623	0.303	0.19	18.22	19.00	1.197	0.746	22.3
Right tilted	40	QPSK 1_108	346000/1730	100%	0.211	0.111	0.19	18.22	19.00	1.197	0.253	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK108_54	349000/1745	100%	0.181	0.111	-0.07	18.11	19.00	1.227	0.222	22.3
Left tilted	40	QPSK108_54	349000/1745	100%	0.092	0.056	-0.05	18.11	19.00	1.227	0.113	22.3
Right cheek	40	QPSK108_54	349000/1745	100%	0.648	0.335	0.11	18.11	19.00	1.227	0.795	22.3
Right tilted	40	QPSK108_54	349000/1745	100%	0.227	0.119	0.01	18.11	19.00	1.227	0.279	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_108	352000/1760	100%	0.110	0.064	-0.13	21.71	22.50	1.199	0.132	22.3
Back side	40	QPSK 1_108	352000/1760	100%	0.136	0.078	0.12	21.71	22.50	1.199	0.163	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK108_54	352000/1760	100%	0.113	0.065	0.09	21.62	22.50	1.225	0.138	22.3
Back side	40	QPSK108_54	352000/1760	100%	0.135	0.077	-0.18	21.62	22.50	1.225	0.165	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_108	352000/1760	100%	0.177	0.096	-0.14	20.24	21.00	1.191	0.211	22.3
Back side	40	QPSK 1_108	352000/1760	100%	0.187	0.101	0.01	20.24	21.00	1.191	0.223	22.3
Left side	40	QPSK 1_108	352000/1760	100%	0.398	0.194	0.14	20.24	21.00	1.191	0.474	22.3
Top side	40	QPSK 1_108	352000/1760	100%	0.048	0.028	0.19	20.24	21.00	1.191	0.057	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK108_54	349000/1745	100%	0.182	0.098	-0.13	20.14	21.00	1.219	0.222	22.3
Back side	40	QPSK108_54	349000/1745	100%	0.197	0.107	-0.18	20.14	21.00	1.219	0.240	22.3
Left side	40	QPSK108_54	349000/1745	100%	0.394	0.196	0.12	20.14	21.00	1.219	0.480	22.3
Top side	40	QPSK108_54	349000/1745	100%	0.054	0.031	-0.12	20.14	21.00	1.219	0.066	22.3
Ant24 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_214	352000/1760	100%	0.599	0.300	0.08	17.83	18.90	1.279	0.766	22.3
Left tilted	40	QPSK 1_214	352000/1760	100%	0.241	0.120	-0.05	17.83	18.90	1.279	0.308	22.3
Right cheek	40	QPSK 1_214	352000/1760	100%	0.135	0.076	-0.13	17.83	18.90	1.279	0.173	22.3
Right tilted	40	QPSK 1_214	352000/1760	100%	0.084	0.047	0.00	17.83	18.90	1.279	0.107	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK108_54	352000/1760	100%	0.587	0.280	0.08	17.79	18.90	1.291	0.758	22.3
Left tilted	40	QPSK108_54	352000/1760	100%	0.229	0.114	0.08	17.79	18.90	1.291	0.296	22.3
Right cheek	40	QPSK108_54	352000/1760	100%	0.116	0.065	-0.17	17.79	18.90	1.291	0.150	22.3
Right tilted	40	QPSK108_54	352000/1760	100%	0.076	0.043	-0.17	17.79	18.90	1.291	0.098	22.3
Head Test Data (1RB) DSI 2												
Left cheek	40	QPSK 1_214	352000/1760	100%	0.599	0.300	0.08	17.83	17.90	1.016	0.609	22.3
Left tilted	40	QPSK 1_214	352000/1760	100%	0.241	0.120	-0.05	17.83	17.90	1.016	0.245	22.3



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Right cheek	40	QPSK 1_214	352000/1760	100%	0.135	0.076	-0.13	17.83	17.90	1.016	0.137	22.3
Right tilted	40	QPSK 1_214	352000/1760	100%	0.084	0.047	0.00	17.83	17.90	1.016	0.085	22.3
Head Test Data (50%RB) DSI 2												
Left cheek	40	QPSK108_54	352000/1760	100%	0.587	0.280	0.08	17.79	17.90	1.026	0.602	22.3
Left tilted	40	QPSK108_54	352000/1760	100%	0.229	0.114	0.08	17.79	17.90	1.026	0.235	22.3
Right cheek	40	QPSK108_54	352000/1760	100%	0.116	0.065	-0.17	17.79	17.90	1.026	0.119	22.3
Right tilted	40	QPSK108_54	352000/1760	100%	0.076	0.043	-0.17	17.79	17.90	1.026	0.078	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	40	QPSK 1_214	352000/1760	100%	0.092	0.058	-0.13	22.19	23.40	1.321	0.122	22.3
Back side	40	QPSK 1_214	352000/1760	100%	0.108	0.060	0.11	22.19	23.40	1.321	0.143	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	40	QPSK108_54	352000/1760	100%	0.086	0.050	0.08	22.23	23.40	1.309	0.113	22.3
Back side	40	QPSK108_54	352000/1760	100%	0.104	0.058	0.15	22.23	23.40	1.309	0.136	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	40	QPSK 1_214	352000/1760	100%	0.156	0.089	0.02	22.19	23.40	1.321	0.206	22.3
Back side	40	QPSK 1_214	352000/1760	100%	0.239	0.125	0.11	22.19	23.40	1.321	0.316	22.3
Right side	40	QPSK 1_214	352000/1760	100%	0.362	0.179	0.15	22.19	23.40	1.321	0.478	22.3
Top side	40	QPSK 1_214	352000/1760	100%	0.117	0.061	-0.02	22.19	23.40	1.321	0.155	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	40	QPSK108_54	352000/1760	100%	0.170	0.094	0.07	22.23	23.40	1.309	0.223	22.3
Back side	40	QPSK108_54	352000/1760	100%	0.245	0.127	-0.13	22.23	23.40	1.309	0.321	22.3
Right side	40	QPSK108_54	352000/1760	100%	0.337	0.164	-0.02	22.23	23.40	1.309	0.441	22.3
Top side	40	QPSK108_54	352000/1760	100%	0.130	0.067	0.09	22.23	23.40	1.309	0.170	22.3

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 cheek	352000/1760	0.812	0.798	1.01754386	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.

Test Position	Channel/ Frequency	Measured SAR (10g)	1 st Repeated	Ratio	2 nd Repeated	3 rd Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Top side	349000/1745	2.050	1.942	1.05561277	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.



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8.2.19 SAR Result of NR Band n77 (3450-3550)

SA N77 SAR Test Record												
Ant14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.179	0.074	-0.03	13.89	15.00	1.291	0.231	22.2
Left tilted	100	QPSK 1_271	633334/3500	100%	0.273	0.115	-0.14	13.89	15.00	1.291	0.353	22.2
Right cheek	100	QPSK 1_271	633334/3500	100%	0.343	0.127	-0.06	13.89	15.00	1.291	0.443	22.2
Right tilted	100	QPSK 1_271	633334/3500	100%	0.549	0.189	-0.06	13.89	15.00	1.291	0.709	22.2
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.187	0.080	-0.08	13.91	15.00	1.285	0.240	22.2
Left tilted	100	QPSK 135_69	633334/3500	100%	0.280	0.115	0.14	13.91	15.00	1.285	0.360	22.2
Right cheek	100	QPSK 135_69	633334/3500	100%	0.377	0.139	-0.02	13.91	15.00	1.285	0.485	22.2
Right tilted	100	QPSK 135_69	633334/3500	100%	0.576	0.199	0.05	13.91	15.00	1.285	0.740	22.2
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	633334/3500	100%	0.333	0.147	-0.08	21.04	22.00	1.247	0.415	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.362	0.166	0.11	21.04	22.00	1.247	0.452	22.2
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.343	0.153	0.03	20.90	22.00	1.288	0.442	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.373	0.170	-0.06	20.90	22.00	1.288	0.481	22.2
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	100	QPSK 1_271	633334/3500	100%	0.117	0.050	0.11	15.43	16.50	1.279	0.150	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.117	0.051	0.19	15.43	16.50	1.279	0.150	22.2
Left side	100	QPSK 1_271	633334/3500	100%	0.040	0.017	-0.06	15.43	16.50	1.279	0.051	22.2
Top side	100	QPSK 1_271	633334/3500	100%	0.364	0.146	-0.11	15.43	16.50	1.279	0.466	22.2
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	100	QPSK 135_69	633334/3500	100%	0.115	0.050	-0.11	15.35	16.50	1.303	0.150	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.141	0.060	-0.03	15.35	16.50	1.303	0.184	22.2
Left side	100	QPSK 135_69	633334/3500	100%	0.039	0.017	-0.16	15.35	16.50	1.303	0.051	22.2
Top side	100	QPSK 135_69	633334/3500	100%	0.371	0.152	0.14	15.35	16.50	1.303	0.483	22.2
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Sensor on Separate 0mm 1RB) DSI 5												
Top side	100	QPSK 1_271	633334/3500	100%	4.160	1.136	-0.07	17.55	18.50	1.245	1.414	22.2
Product specific 10g SAR Test data (Sensor on Separate 0mm 50%RB) DSI 5												
Top side	100	QPSK 135_69	633334/3500	100%	5.110	1.370	0.04	17.45	18.50	1.274	1.745	22.2
Product specific 10g SAR Test data (Sensor off 1RB) DSI 4												
Top side with 11mm	100	QPSK 1_271	633334/3500	100%	1.260	0.478	0.07	21.04	22.00	1.247	0.596	22.2
Product specific 10g SAR Test data (Sensor off 50%RB) DSI 4												
Top side with 11mm	100	QPSK 135_69	633334/3500	100%	1.410	0.543	-0.07	20.90	22.00	1.288	0.700	22.2



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Ant23 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.507	0.212	0.15	13.99	14.50	1.125	0.570	22
Left tilted	100	QPSK 1_1	633334/3500	100%	0.471	0.182	-0.01	13.99	14.50	1.125	0.530	22
Right cheek	100	QPSK 1_1	633334/3500	100%	0.162	0.073	0.13	13.99	14.50	1.125	0.182	22
Right tilted	100	QPSK 1_1	633334/3500	100%	0.169	0.073	-0.17	13.99	14.50	1.125	0.190	22
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.512	0.216	0.19	13.79	14.50	1.178	0.603	22
Left tilted	100	QPSK 135_69	633334/3500	100%	0.463	0.180	-0.03	13.79	14.50	1.178	0.545	22
Right cheek	100	QPSK 135_69	633334/3500	100%	0.152	0.068	-0.18	13.79	14.50	1.178	0.179	22
Right tilted	100	QPSK 135_69	633334/3500	100%	0.154	0.066	-0.05	13.79	14.50	1.178	0.181	22
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_1	633334/3500	100%	0.099	0.047	-0.06	19.01	19.50	1.119	0.111	22
Back side	100	QPSK 1_1	633334/3500	100%	0.150	0.075	0.16	19.01	19.50	1.119	0.168	22
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.140	0.066	-0.18	18.78	19.50	1.180	0.165	22
Back side	100	QPSK 135_69	633334/3500	100%	0.212	0.106	0.00	18.78	19.50	1.180	0.250	22
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_1	633334/3500	100%	0.118	0.055	-0.13	17.56	18.00	1.107	0.131	22
Back side	100	QPSK 1_1	633334/3500	100%	0.195	0.091	0.09	17.56	18.00	1.107	0.216	22
Right side	100	QPSK 1_1	633334/3500	100%	0.376	0.128	0.01	17.56	18.00	1.107	0.416	22
Bottom side	100	QPSK 1_1	633334/3500	100%	0.050	0.018	-0.19	17.56	18.00	1.107	0.055	22
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.116	0.054	-0.05	17.13	18.00	1.222	0.142	22
Back side	100	QPSK 135_69	633334/3500	100%	0.193	0.088	0.08	17.13	18.00	1.222	0.236	22
Right side	100	QPSK 135_69	633334/3500	100%	0.339	0.141	0.01	17.13	18.00	1.222	0.414	22
Bottom side	100	QPSK 135_69	633334/3500	100%	0.038	0.010	0.03	17.13	18.00	1.222	0.046	22
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2												
Left cheek	100	QPSK 1_1	633334/3500	100%	0.103	0.047	-0.06	12.92	13.50	1.143	0.118	22
Left tilted	100	QPSK 1_1	633334/3500	100%	0.092	0.041	0.01	12.92	13.50	1.143	0.105	22
Right cheek	100	QPSK 1_1	633334/3500	100%	0.359	0.151	-0.07	12.92	13.50	1.143	0.410	22
Right tilted	100	QPSK 1_1	633334/3500	100%	0.250	0.100	-0.09	12.92	13.50	1.143	0.286	22
Head Test Data(50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.110	0.050	0.17	12.80	13.50	1.175	0.129	22
Left tilted	100	QPSK 135_69	633334/3500	100%	0.100	0.044	-0.14	12.80	13.50	1.175	0.117	22
Right cheek	100	QPSK 135_69	633334/3500	100%	0.374	0.150	0.10	12.80	13.50	1.175	0.439	22
Right tilted	100	QPSK 135_69	633334/3500	100%	0.265	0.110	-0.09	12.80	13.50	1.175	0.311	22



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Body worn Test data(Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_1	633334/3500	100%	0.110	0.054	-0.07	18.89	19.50	1.151	0.127	22
Back side	100	QPSK 1_1	633334/3500	100%	0.156	0.072	0.17	18.89	19.50	1.151	0.180	22
Body worn Test data(Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.139	0.065	-0.15	18.91	19.50	1.146	0.159	22
Back side	100	QPSK 135_69	633334/3500	100%	0.167	0.076	0.01	18.91	19.50	1.146	0.191	22
Hotspot Test data(Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_1	633334/3500	100%	0.151	0.069	0.12	17.36	18.00	1.159	0.175	22
Back side	100	QPSK 1_1	633334/3500	100%	0.211	0.093	0.16	17.36	18.00	1.159	0.245	22
Left side	100	QPSK 1_1	633334/3500	100%	0.252	0.107	-0.06	17.36	18.00	1.159	0.292	22
Top side	100	QPSK 1_1	633334/3500	100%	0.135	0.058	-0.08	17.36	18.00	1.159	0.156	22
Hotspot Test data(Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.158	0.071	0.17	17.33	18.00	1.167	0.184	22
Back side	100	QPSK 135_69	633334/3500	100%	0.208	0.093	-0.19	17.33	18.00	1.167	0.243	22
Left side	100	QPSK 135_69	633334/3500	100%	0.302	0.128	0.08	17.33	18.00	1.167	0.352	22
Top side	100	QPSK 135_69	633334/3500	100%	0.168	0.070	-0.17	17.33	18.00	1.167	0.196	22
Ant 21 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2												
Left cheek	100	QPSK 1_271	633334/3500	100%	0.291	0.136	-0.16	16.73	17.00	1.064	0.310	22.2
Left tilted	100	QPSK 1_271	633334/3500	100%	0.373	0.161	0.19	16.73	17.00	1.064	0.397	22.2
Right cheek	100	QPSK 1_271	633334/3500	100%	0.234	0.101	0.01	16.73	17.00	1.064	0.249	22.2
Right tilted	100	QPSK 1_271	633334/3500	100%	0.317	0.128	0.13	16.73	17.00	1.064	0.337	22.2
Head Test Data(50%RB) DSI 2												
Left cheek	100	QPSK 135_69	633334/3500	100%	0.272	0.125	-0.13	16.47	17.00	1.130	0.307	22.2
Left tilted	100	QPSK 135_69	633334/3500	100%	0.361	0.147	0.05	16.47	17.00	1.130	0.408	22.2
Right cheek	100	QPSK 135_69	633334/3500	100%	0.282	0.118	-0.12	16.47	17.00	1.130	0.319	22.2
Right tilted	100	QPSK 135_69	633334/3500	100%	0.267	0.102	-0.12	16.47	17.00	1.130	0.302	22.2
Body worn Test data(Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_271	633334/3500	100%	0.061	0.028	0.15	17.56	18.00	1.107	0.068	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.076	0.037	0.08	17.56	18.00	1.107	0.084	22.2
Body worn Test data(Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	633334/3500	100%	0.049	0.024	0.16	17.53	18.00	1.114	0.055	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.061	0.028	-0.19	17.53	18.00	1.114	0.068	22.2
Hotspot Test data(Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_271	633334/3500	100%	0.067	0.033	-0.15	16.21	16.50	1.069	0.072	22.2
Back side	100	QPSK 1_271	633334/3500	100%	0.064	0.027	-0.09	16.21	16.50	1.069	0.068	22.2
Left side	100	QPSK 1_271	633334/3500	100%	0.056	0.025	0.14	16.21	16.50	1.069	0.060	22.2
Right side	100	QPSK 1_271	633334/3500	100%	0.079	0.039	0.14	16.21	16.50	1.069	0.084	22.2
Top side	100	QPSK 1_271	633334/3500	100%	0.135	0.062	0.06	16.21	16.50	1.069	0.144	22.2



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Hotspot Test data(Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	633334/3500	100%	0.064	0.030	0.02	16.00	16.50	1.122	0.072	22.2
Back side	100	QPSK 135_69	633334/3500	100%	0.064	0.029	0.17	16.00	16.50	1.122	0.072	22.2
Left side	100	QPSK 135_69	633334/3500	100%	0.057	0.026	0.09	16.00	16.50	1.122	0.064	22.2
Right side	100	QPSK 135_69	633334/3500	100%	0.083	0.041	-0.03	16.00	16.50	1.122	0.093	22.2
Top side	100	QPSK 135_69	633334/3500	100%	0.126	0.058	-0.12	16.00	16.50	1.122	0.141	22.2



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8.2.20 SAR Result of NR Band n77 (3700-3980)

SA N77 SAR Test Record												
Ant14 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_137	652400/3786	100%	0.150	0.059	0.09	14.39	15.00	1.151	0.173	22.4
Left tilted	100	QPSK 1_137	652400/3786	100%	0.226	0.090	0.08	14.39	15.00	1.151	0.260	22.4
Right cheek	100	QPSK 1_137	652400/3786	100%	0.279	0.106	-0.13	14.39	15.00	1.151	0.321	22.4
Right tilted	100	QPSK 1_137	652400/3786	100%	0.401	0.141	-0.17	14.39	15.00	1.151	0.461	22.4
Right tilted	100	QPSK 1_271	650000/3750	100%	0.358	0.132	0.04	13.97	15.00	1.268	0.454	22.4
Right tilted	100	QPSK 1_137	654800/3822	100%	0.331	0.121	0.18	14.18	15.00	1.208	0.400	22.5
Right tilted	100	QPSK 1_1	657200/3858	100%	0.337	0.123	-0.09	14.20	15.00	1.202	0.405	22.5
Right tilted	100	QPSK 1_137	659600/3894	100%	0.266	0.096	-0.06	14.15	15.00	1.216	0.324	22.5
Right tilted	100	QPSK 1_1	662000/3930	100%	0.275	0.100	0.11	14.16	15.00	1.213	0.334	22.5
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.194	0.082	-0.19	14.26	15.00	1.186	0.230	22.4
Left tilted	100	QPSK 135_69	650000/3750	100%	0.238	0.095	0.16	14.26	15.00	1.186	0.282	22.4
Right cheek	100	QPSK 135_69	650000/3750	100%	0.332	0.122	0.04	14.26	15.00	1.186	0.394	22.4
Right tilted	100	QPSK 135_69	650000/3750	100%	0.511	0.173	0.05	14.26	15.00	1.186	0.606	22.4
Right tilted	100	QPSK 135_69	652400/3786	100%	0.384	0.140	-0.06	14.12	15.00	1.225	0.470	22.4
Right tilted	100	QPSK 135_69	654800/3822	100%	0.327	0.121	0.02	14.11	15.00	1.227	0.401	22.5
Right tilted	100	QPSK 135_69	657200/3858	100%	0.294	0.106	-0.09	14.12	15.00	1.225	0.360	22.5
Right tilted	100	QPSK 135_69	659600/3894	100%	0.266	0.097	0.04	14.24	15.00	1.191	0.317	22.5
Right tilted	100	QPSK 135_69	662000/3930	100%	0.240	0.087	-0.14	14.15	15.00	1.216	0.292	22.5
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	652400/3786	100%	0.260	0.113	0.10	21.34	22.00	1.164	0.303	22.4
Back side	100	QPSK 1_137	652400/3786	100%	0.269	0.120	-0.14	21.34	22.00	1.164	0.313	22.4
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	650000/3750	100%	0.297	0.133	0.11	21.28	22.00	1.180	0.351	22.4
Back side	100	QPSK 135_69	650000/3750	100%	0.301	0.133	0.08	21.28	22.00	1.180	0.355	22.4
Hotspot Test data (Separate 10mm 1RB) DSI 9												
Front side	100	QPSK 1_137	652400/3786	100%	0.096	0.041	-0.03	15.82	16.50	1.169	0.112	22.4
Back side	100	QPSK 1_137	652400/3786	100%	0.103	0.044	-0.07	15.82	16.50	1.169	0.120	22.4
Left side	100	QPSK 1_137	652400/3786	100%	0.064	0.026	0.12	15.82	16.50	1.169	0.075	22.4
Top side	100	QPSK 1_137	652400/3786	100%	0.238	0.099	0.09	15.82	16.50	1.169	0.278	22.4
Hotspot Test data (Separate 10mm 50%RB) DSI 9												
Front side	100	QPSK 135_69	659600/3894	100%	0.072	0.030	0.01	15.82	16.50	1.169	0.084	22.5
Back side	100	QPSK 135_69	659600/3894	100%	0.072	0.028	0.03	15.82	16.50	1.169	0.084	22.5
Left side	100	QPSK 135_69	659600/3894	100%	0.061	0.023	-0.16	15.82	16.50	1.169	0.071	22.5
Top side	100	QPSK 135_69	659600/3894	100%	0.163	0.066	-0.03	15.82	16.50	1.169	0.191	22.5



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Ant23 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data (1RB) DSI 2												
Left cheek	100	QPSK 1_137	662000/3930	100%	0.350	0.146	-0.04	13.95	14.50	1.135	0.397	22.1
Left tilted	100	QPSK 1_137	662000/3930	100%	0.303	0.118	0.17	13.95	14.50	1.135	0.344	22.1
Right cheek	100	QPSK 1_137	662000/3930	100%	0.110	0.048	-0.07	13.95	14.50	1.135	0.125	22.1
Right tilted	100	QPSK 1_137	662000/3930	100%	0.110	0.045	0.18	13.95	14.50	1.135	0.125	22.1
Head Test Data (50%RB) DSI 2												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.283	0.116	-0.12	14.00	14.50	1.122	0.318	22.3
Left tilted	100	QPSK 135_69	650000/3750	100%	0.251	0.095	0.03	14.00	14.50	1.122	0.282	22.3
Right cheek	100	QPSK 135_69	650000/3750	100%	0.094	0.040	0.14	14.00	14.50	1.122	0.105	22.3
Right tilted	100	QPSK 135_69	650000/3750	100%	0.096	0.040	0.13	14.00	14.50	1.122	0.108	22.3
Body worn Test data (Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	650000/3750	100%	0.054	0.015	-0.17	19.02	19.50	1.117	0.060	22.3
Back side	100	QPSK 1_137	650000/3750	100%	0.101	0.044	0.09	19.02	19.50	1.117	0.113	22.3
Body worn Test data (Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	650000/3750	100%	0.072	0.021	-0.19	18.97	19.50	1.130	0.081	22.3
Back side	100	QPSK 135_69	662000/3930	100%	0.089	0.024	-0.05	18.97	19.50	1.130	0.101	22.3
Hotspot Test data (Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	650000/3750	100%	0.074	0.023	0.12	17.46	18.00	1.132	0.084	22.3
Back side	100	QPSK 1_137	650000/3750	100%	0.113	0.053	0.17	17.46	18.00	1.132	0.128	22.3
Right side	100	QPSK 1_137	650000/3750	100%	0.252	0.102	-0.04	17.46	18.00	1.132	0.285	22.3
Bottom side	100	QPSK 1_137	650000/3750	100%	0.065	0.018	-0.18	17.46	18.00	1.132	0.074	22.3
Hotspot Test data (Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	650000/3750	100%	0.072	0.030	-0.18	17.37	18.00	1.156	0.083	22.3
Back side	100	QPSK 135_69	650000/3750	100%	0.107	0.044	-0.11	17.37	18.00	1.156	0.124	22.3
Right side	100	QPSK 135_69	650000/3750	100%	0.174	0.073	0.08	17.37	18.00	1.156	0.201	22.3
Bottom side	100	QPSK 135_69	650000/3750	100%	0.039	0.010	-0.06	17.37	18.00	1.156	0.045	22.3
Ant 13 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2												
Left cheek	100	QPSK 1_137	652400/3786	100%	0.099	0.044	-0.08	13.32	13.50	1.042	0.103	22.3
Left tilted	100	QPSK 1_137	652400/3786	100%	0.095	0.040	-0.14	13.32	13.50	1.042	0.099	22.3
Right cheek	100	QPSK 1_137	652400/3786	100%	0.381	0.147	-0.16	13.32	13.50	1.042	0.397	22.3
Right tilted	100	QPSK 1_137	652400/3786	100%	0.288	0.108	-0.19	13.32	13.50	1.042	0.300	22.3
Head Test Data(50%RB) DSI 2												
Left cheek	100	QPSK 135_69	650000/3750	100%	0.122	0.053	-0.04	13.24	13.50	1.062	0.130	22.3
Left tilted	100	QPSK 135_69	650000/3750	100%	0.102	0.044	0.18	13.24	13.50	1.062	0.108	22.3
Right cheek	100	QPSK 135_69	650000/3750	100%	0.417	0.165	-0.02	13.24	13.50	1.062	0.443	22.3
Right tilted	100	QPSK 135_69	650000/3750	100%	0.335	0.125	-0.05	13.24	13.50	1.062	0.356	22.3
Right cheek	100	QPSK 135_69	652400/3786	100%	0.399	0.154	0.19	13.18	13.50	1.076	0.430	22.3
Right cheek	100	QPSK 135_69	654800/3822	100%	0.362	0.140	0.13	13.16	13.50	1.081	0.391	22.1



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Right cheek	100	QPSK 135_69	657200/3858	100%	0.319	0.124	0.00	12.97	13.50	1.130	0.360	22.1
Right cheek	100	QPSK 135_69	659600/3894	100%	0.275	0.108	-0.02	12.87	13.50	1.156	0.318	22.1
Right cheek	100	QPSK 135_69	662000/3930	100%	0.234	0.092	-0.19	12.89	13.50	1.151	0.269	22.1
Body worn Test data(Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	652400/3786	100%	0.169	0.078	-0.10	19.15	19.50	1.084	0.183	22.3
Back side	100	QPSK 1_137	652400/3786	100%	0.192	0.088	-0.13	19.15	19.50	1.084	0.208	22.3
Body worn Test data(Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	652400/3786	100%	0.194	0.089	0.15	19.24	19.50	1.062	0.206	22.3
Back side	100	QPSK 135_69	652400/3786	100%	0.224	0.100	0.11	19.24	19.50	1.062	0.238	22.3
Hotspot Test data(Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_137	652400/3786	100%	0.145	0.065	-0.15	17.65	18.00	1.084	0.157	22.1
Back side	100	QPSK 1_137	652400/3786	100%	0.209	0.088	-0.13	17.65	18.00	1.084	0.227	22.1
Left side	100	QPSK 1_137	652400/3786	100%	0.311	0.124	-0.15	17.65	18.00	1.084	0.337	22.1
Top side	100	QPSK 1_137	652400/3786	100%	0.072	0.033	0.08	17.65	18.00	1.084	0.078	22.1
Hotspot Test data(Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	652400/3786	100%	0.200	0.088	0.12	17.78	18.00	1.052	0.210	22.3
Back side	100	QPSK 135_69	652400/3786	100%	0.262	0.110	0.05	17.78	18.00	1.052	0.276	22.3
Left side	100	QPSK 135_69	652400/3786	100%	0.347	0.144	0.08	17.78	18.00	1.052	0.365	22.3
Top side	100	QPSK 135_69	652400/3786	100%	0.118	0.051	-0.05	17.78	18.00	1.052	0.124	22.3
Ant 21 Test Record												
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB) DSI 2												
Left cheek	100	QPSK 1_1	659600/3894	100%	0.264	0.115	0.14	16.82	17.00	1.042	0.275	22.5
Left tilted	100	QPSK 1_1	659600/3894	100%	0.321	0.132	-0.06	16.82	17.00	1.042	0.335	22.5
Right cheek	100	QPSK 1_1	659600/3894	100%	0.176	0.078	-0.10	16.82	17.00	1.042	0.183	22.5
Right tilted	100	QPSK 1_1	659600/3894	100%	0.293	0.116	-0.16	16.82	17.00	1.042	0.305	22.5
Head Test Data(50%RB) DSI 2												
Left cheek	100	QPSK 135_69	654800/3822	100%	0.282	0.123	0.04	16.91	17.00	1.021	0.288	22.5
Left tilted	100	QPSK 135_69	654800/3822	100%	0.317	0.132	-0.11	16.91	17.00	1.021	0.324	22.5
Right cheek	100	QPSK 135_69	654800/3822	100%	0.195	0.087	0.07	16.91	17.00	1.021	0.199	22.5
Right tilted	100	QPSK 135_69	654800/3822	100%	0.249	0.107	-0.01	16.91	17.00	1.021	0.254	22.5
Body worn Test data(Separate 15mm 1RB) DSI 4												
Front side	100	QPSK 1_137	659600/3894	100%	0.052	0.022	-0.02	17.79	18.00	1.050	0.055	22.5
Back side	100	QPSK 1_137	659600/3894	100%	0.054	0.023	-0.16	17.79	18.00	1.050	0.057	22.5
Body worn Test data(Separate 15mm 50%RB) DSI 4												
Front side	100	QPSK 135_69	654800/3822	100%	0.044	0.019	-0.08	17.89	18.00	1.026	0.045	22.5
Back side	100	QPSK 135_69	654800/3822	100%	0.049	0.022	-0.10	17.89	18.00	1.026	0.050	22.5
Hotspot Test data(Separate 10mm 1RB) DSI 10												
Front side	100	QPSK 1_1	659600/3894	100%	0.056	0.024	-0.05	16.36	16.50	1.033	0.058	22.5
Back side	100	QPSK 1_1	659600/3894	100%	0.058	0.026	0.02	16.36	16.50	1.033	0.060	22.5
Left side	100	QPSK 1_1	659600/3894	100%	0.052	0.013	-0.11	16.36	16.50	1.033	0.054	22.5
Right side	100	QPSK 1_1	659600/3894	100%	0.075	0.027	0.06	16.36	16.50	1.033	0.077	22.5
Top side	100	QPSK 1_1	659600/3894	100%	0.098	0.037	-0.15	16.36	16.50	1.033	0.101	22.5



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Hotspot Test data(Separate 10mm 50%RB) DSI 10												
Front side	100	QPSK 135_69	654800/3822	100%	0.055	0.026	-0.18	16.41	16.50	1.021	0.056	22.5
Back side	100	QPSK 135_69	654800/3822	100%	0.061	0.025	0.12	16.41	16.50	1.021	0.062	22.5
Left side	100	QPSK 135_69	654800/3822	100%	0.050	0.011	-0.19	16.41	16.50	1.021	0.051	22.5
Right side	100	QPSK 135_69	654800/3822	100%	0.078	0.016	0.08	16.41	16.50	1.021	0.080	22.5
Top side	100	QPSK 135_69	654800/3822	100%	0.107	0.039	0.01	16.41	16.50	1.021	0.109	22.5



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8.2.21 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record												
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-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												
Left cheek	802.11b	6/2437	99.61%	1.004	0.500	0.250	0.16	17.11	18.00	1.227	0.616	22.3
Left tilted	802.11b	6/2437	99.61%	1.004	0.410	0.197	0.02	17.11	18.00	1.227	0.505	22.3
Right cheek	802.11b	6/2437	99.61%	1.004	0.282	0.163	0.04	17.11	18.00	1.227	0.347	22.3
Right tilted	802.11b	6/2437	99.61%	1.004	0.378	0.184	0.09	17.11	18.00	1.227	0.466	22.3
Head Test Data WWAN+WLAN2.4G/5G/2.4G+5G												
Left cheek	802.11b	6/2437	99.61%	1.004	0.500	0.250	0.16	17.11	16.50	0.869	0.436	22.3
Left tilted	802.11b	6/2437	99.61%	1.004	0.410	0.197	0.02	17.11	16.50	0.869	0.358	22.3
Right cheek	802.11b	6/2437	99.61%	1.004	0.282	0.163	0.04	17.11	16.50	0.869	0.246	22.3
Right tilted	802.11b	6/2437	99.61%	1.004	0.378	0.184	0.09	17.11	16.50	0.869	0.330	22.3
Body worn Test data (Separate 15mm)												
Front side	802.11b	6/2437	99.61%	1.004	0.184	0.103	0.07	21.73	22.50	1.194	0.221	22.3
Back side	802.11b	6/2437	99.61%	1.004	0.273	0.167	-0.08	21.73	22.50	1.194	0.327	22.3
Hotspot Test data (Separate 10mm)												
Front side	802.11b	6/2437	99.61%	1.004	0.300	0.166	0.02	21.73	22.50	1.194	0.360	22.3
Back side	802.11b	6/2437	99.61%	1.004	0.433	0.245	-0.13	21.73	22.50	1.194	0.519	22.3
Right side	802.11b	6/2437	99.61%	1.004	0.481	0.260	-0.03	21.73	22.50	1.194	0.577	22.3
Top side	802.11b	6/2437	99.61%	1.004	0.352	0.158	0.07	21.73	22.50	1.194	0.422	22.3



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8.2.22 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record												
MIMO Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data of U-NII-2A												
Left cheek	802.11a	52/5260	99.24%	1.008	0.309	0.101	0.12	16.19	17	1.205	0.375	22.3
Left tilted	802.11a	52/5260	99.24%	1.008	0.417	0.135	0.15	16.19	17	1.205	0.506	22.3
Right cheek	802.11a	52/5260	99.24%	1.008	0.324	0.098	-0.01	16.19	17	1.205	0.393	22.3
Right tilted	802.11a	52/5260	99.24%	1.008	0.465	0.141	-0.06	16.19	17	1.205	0.565	22.3
Head Test Data of U-NII-2C												
Left cheek	802.11ac 80M	122/5610	99.69%	1.003	0.315	0.106	0.02	15.75	16.5	1.189	0.376	22
Left tilted	802.11ac 80M	122/5610	99.69%	1.003	0.371	0.119	0.12	15.75	16.5	1.189	0.442	22
Right cheek	802.11ac 80M	122/5610	99.69%	1.003	0.257	0.078	0.06	15.75	16.5	1.189	0.306	22
Right tilted	802.11ac 80M	122/5610	99.69%	1.003	0.418	0.121	-0.09	15.75	16.5	1.189	0.498	22
Head Test Data of U-NII-3												
Left cheek	802.11ac 80M	155/5775	99.72%	1.003	0.417	0.136	0.05	17.31	19	1.476	0.617	22.1
Left tilted	802.11ac 80M	155/5775	99.72%	1.003	0.363	0.127	-0.08	17.31	19	1.476	0.537	22.1
Right cheek	802.11ac 80M	155/5775	99.72%	1.003	0.253	0.081	0.15	17.31	19	1.476	0.374	22.1
Right tilted	802.11ac 80M	0.03%	99.72%	1.003	0.398	0.120	0.01	17.31	19	1.476	0.589	22.1
Head Test Data of U-NII-2A WWAN+WLAN2.4G/5G/2.4G+5G												
Left cheek	802.11a	52/5260	99.24%	1.008	0.309	0.101	0.12	16.19	14	0.604	0.188	22.3
Left tilted	802.11a	52/5260	99.24%	1.008	0.417	0.135	0.15	16.19	14	0.604	0.254	22.3
Right cheek	802.11a	52/5260	99.24%	1.008	0.324	0.098	-0.01	16.19	14	0.604	0.197	22.3
Right tilted	802.11a	52/5260	99.24%	1.008	0.465	0.141	-0.06	16.19	14	0.604	0.283	22.3
Head Test Data of U-NII-2C												
Left cheek	802.11ac 80M	122/5610	99.69%	1.003	0.315	0.106	0.02	15.75	13.5	0.596	0.188	22
Left tilted	802.11ac 80M	122/5610	99.69%	1.003	0.371	0.119	0.12	15.75	13.5	0.596	0.222	22
Right cheek	802.11ac 80M	122/5610	99.69%	1.003	0.257	0.078	0.06	15.75	13.5	0.596	0.154	22
Right tilted	802.11ac 80M	122/5610	99.69%	1.003	0.418	0.121	-0.09	15.75	13.5	0.596	0.250	22
Head Test Data of U-NII-3												
Left cheek	802.11ac 80M	155/5775	99.72%	1.003	0.417	0.136	0.05	17.31	16	0.740	0.309	22.1
Left tilted	802.11ac 80M	155/5775	99.72%	1.003	0.363	0.127	-0.08	17.31	16	0.740	0.269	22.1
Right cheek	802.11ac 80M	155/5775	99.72%	1.003	0.253	0.081	0.15	17.31	16	0.740	0.188	22.1
Right tilted	802.11ac 80M	155/5775	99.72%	1.003	0.398	0.120	0.01	17.31	16	0.740	0.295	22.1
Body worn Test data of U-NII-2A (Separate 15mm)												
Front side	802.11a	52/5260	99.24%	1.008	0.089	0.034	-0.16	17.73	18.5	1.194	0.107	22.3
Back side	802.11a	52/5260	99.24%	1.008	0.198	0.079	-0.08	17.73	18.5	1.194	0.238	22.3
Body worn Test data of U-NII-2C (Separate 15mm)												
Front side	802.11ac 80M	122/5610	99.69%	1.003	0.102	0.043	-0.07	17.80	18.5	1.175	0.120	22
Back side	802.11ac 80M	122/5610	99.69%	1.003	0.210	0.075	0.01	17.80	18.5	1.175	0.247	22
Body worn Test data of U-NII-3 (Separate 15mm)												
Front side	802.11ac 80M	155/5775	99.72%	1.003	0.071	0.019	-0.14	16.86	18.5	1.459	0.104	22.1



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Back side	802.11ac 80M	155/5775	99.72%	1.003	0.157	0.062	0.10	16.86	18.5	1.459	0.230	22.1
Hotspot Test data of U-NII-1 (Separate 10mm)												
Front side	802.11n 40M	46/5230	99.25%	1.008	0.152	0.058	0.15	17.47	18.5	1.268	0.194	22.3
Back side	802.11n 40M	46/5230	99.25%	1.008	0.347	0.123	-0.06	17.47	18.5	1.268	0.443	22.3
Left side	802.11n 40M	46/5230	99.25%	1.008	0.085	0.037	0.10	17.47	18.5	1.268	0.109	22.3
Right side	802.11n 40M	46/5230	99.25%	1.008	0.175	0.067	0.09	17.47	18.5	1.268	0.224	22.3
Top side	802.11n 40M	46/5230	99.25%	1.008	0.520	0.173	0.05	17.47	18.5	1.268	0.664	22.3
Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11ac 80M	155/5775	99.72%	1.003	0.110	0.045	0.16	16.86	18.5	1.459	0.161	22.1
Back side	802.11ac 80M	155/5775	99.72%	1.003	0.235	0.085	0.05	16.86	18.5	1.459	0.344	22.1
Left side	802.11ac 80M	155/5775	99.72%	1.003	0.101	0.022	-0.06	16.86	18.5	1.459	0.148	22.1
Right side	802.11ac 80M	155/5775	99.72%	1.003	0.321	0.124	0.02	16.86	18.5	1.459	0.470	22.1
Top side	802.11ac 80M	155/5775	99.72%	1.003	0.327	0.111	-0.05	16.86	18.5	1.459	0.478	22.1
Hotspot Test data of U-NII-1 (Separate 10mm) WWAN+WLAN2.4G/5G/2.4G+5G												
Front side	802.11n 40M	46/5230	99.25%	1.008	0.152	0.058	0.15	17.47	16	0.713	0.109	22.3
Back side	802.11n 40M	46/5230	99.25%	1.008	0.347	0.123	-0.06	17.47	16	0.713	0.249	22.3
Left side	802.11n 40M	46/5230	99.25%	1.008	0.085	0.037	0.10	17.47	16	0.713	0.061	22.3
Right side	802.11n 40M	46/5230	99.25%	1.008	0.175	0.067	0.09	17.47	16	0.713	0.126	22.3
Top side	802.11n 40M	46/5230	99.25%	1.008	0.520	0.173	0.05	17.47	16	0.713	0.373	22.3
Hotspot Test data of U-NII-3 (Separate 10mm)												
Front side	802.11ac 80M	155/5775	99.72%	1.003	0.110	0.045	0.16	16.86	16	0.820	0.090	22.1
Back side	802.11ac 80M	155/5775	99.72%	1.003	0.235	0.085	0.05	16.86	16	0.820	0.193	22.1
Left side	802.11ac 80M	155/5775	99.72%	1.003	0.101	0.022	-0.06	16.86	16	0.820	0.083	22.1
Right side	802.11ac 80M	155/5775	99.72%	1.003	0.321	0.124	0.02	16.86	16	0.820	0.264	22.1
Top side	802.11ac 80M	155/5775	99.72%	1.003	0.327	0.111	-0.05	16.86	16	0.820	0.269	22.1
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR Test data of U-NII-2A (Separate 0mm)												
Front side	802.11a	52/5260	99.24%	1.008	0.779	0.257	0.15	17.73	18.5	1.194	0.309	22.3
Back side	802.11a	52/5260	99.24%	1.008	0.830	0.264	-0.09	17.73	18.5	1.194	0.318	22.3
Left side	802.11a	52/5260	99.24%	1.008	0.238	0.081	0.14	17.73	18.5	1.194	0.097	22.3
Right side	802.11a	52/5260	99.24%	1.008	1.990	0.478	0.10	17.73	18.5	1.194	0.575	22.3
Top side	802.11a	52/5260	99.24%	1.008	5.540	1.110	0.02	17.73	18.5	1.194	1.335	22.3
Product specific 10gSAR Test data of U-NII-2C (Separate 0mm)												
Front side	802.11ac 80M	122/5610	99.69%	1.003	1.140	0.289	-0.14	17.8	18.5	1.175	0.341	22
Back side	802.11ac 80M	122/5610	99.69%	1.003	1.050	0.306	0.04	17.8	18.5	1.175	0.361	22
Left side	802.11ac 80M	122/5610	99.69%	1.003	0.555	0.145	0.12	17.8	18.5	1.175	0.171	22
Right side	802.11ac 80M	122/5610	99.69%	1.003	2.270	0.684	0.05	17.8	18.5	1.175	0.806	22
Top side	802.11ac 80M	122/5610	99.69%	1.003	3.480	0.955	0.15	17.8	18.5	1.175	1.126	22



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8.2.23 SAR Result of BT

Bluetooth SAR Test Record												
Ant25 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	DH5	39/2441	76.99%	1.299	0.242	0.105	-0.09	12.98	14.00	1.265	0.398	22.3
Left tilted	DH5	39/2441	76.99%	1.299	0.061	0.032	0.02	12.98	14.00	1.265	0.100	22.3
Right cheek	DH5	39/2441	76.99%	1.299	0.093	0.046	0.04	12.98	14.00	1.265	0.153	22.3
Right tilted	DH5	39/2441	76.99%	1.299	0.032	0.017	-0.06	12.98	14.00	1.265	0.053	22.3
Body worn Test data (Separate 15mm)												
Front side	DH5	39/2441	76.99%	1.299	0.040	0.121	0.04	12.98	14.00	1.265	0.066	22.3
Back side	DH5	39/2441	76.99%	1.299	0.057	0.031	0.00	12.98	14.00	1.265	0.094	22.3
Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	76.99%	1.299	0.069	0.037	-0.03	12.98	14.00	1.265	0.113	22.3
Back side	DH5	39/2441	76.99%	1.299	0.128	0.064	-0.07	12.98	14.00	1.265	0.210	22.3
Right side	DH5	39/2441	76.99%	1.299	0.086	0.045	-0.02	12.98	14.00	1.265	0.141	22.3
Top side	DH5	39/2441	76.99%	1.299	0.043	0.016	-0.07	12.98	14.00	1.265	0.071	22.3
Ant22 Test Record												
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data												
Left cheek	DH5	39/2441	77.01%	1.299	0.170	0.097	0.06	11.85	13.00	1.303	0.288	22.3
Left tilted	DH5	39/2441	77.01%	1.299	0.221	0.103	-0.05	11.85	13.00	1.303	0.374	22.3
Right cheek	DH5	39/2441	77.01%	1.299	0.090	0.052	-0.02	11.85	13.00	1.303	0.152	22.3
Right tilted	DH5	39/2441	77.01%	1.299	0.123	0.064	0.05	11.85	13.00	1.303	0.208	22.3
Body worn Test data (Separate 15mm)												
Front side	DH5	39/2441	77.01%	1.299	0.029	0.011	-0.02	11.85	13.00	1.303	0.049	22.3
Back side	DH5	39/2441	77.01%	1.299	0.035	0.019	0.09	11.85	13.00	1.303	0.059	22.3
Hotspot Test data (Separate 10mm)												
Front side	DH5	39/2441	77.01%	1.299	0.028	0.008	0.03	11.85	13.00	1.303	0.047	22.3
Back side	DH5	39/2441	77.01%	1.299	0.043	0.022	0.12	11.85	13.00	1.303	0.073	22.3
Right side	DH5	39/2441	77.01%	1.299	0.024	0.006	-0.11	11.85	13.00	1.303	0.041	22.3
Top side	DH5	39/2441	77.01%	1.299	0.044	0.024	0.19	11.85	13.00	1.303	0.074	22.3



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

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

Note:

- 1) The device does not support DTM function.
- 2) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 3) The NFC test data can be referred to NFC SAR test report (Report No.: SUCR250100001001).
- 4) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.

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8.3.2 Simultaneous Transmission SAR Summation Scenario

Head:

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant31	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 850	Left cheek	0.123	0.436	0.309	0.398	0.288	0.559	0.432	0.521	0.411	0.707	0.597	0.830	0.411
	Left tilted	0.063	0.358	0.269	0.100	0.374	0.421	0.332	0.163	0.437	0.369	0.643	0.432	0.437
	Right cheek	0.159	0.246	0.197	0.153	0.152	0.405	0.356	0.312	0.311	0.350	0.349	0.509	0.311
	Right tilted	0.097	0.330	0.295	0.053	0.208	0.427	0.392	0.150	0.305	0.348	0.503	0.445	0.305
WCDMA 5	Left cheek	0.132	0.436	0.309	0.398	0.288	0.568	0.441	0.530	0.420	0.707	0.597	0.839	0.420
	Left tilted	0.071	0.358	0.269	0.100	0.374	0.429	0.340	0.171	0.445	0.369	0.643	0.440	0.445
	Right cheek	0.171	0.246	0.197	0.153	0.152	0.417	0.368	0.324	0.323	0.350	0.349	0.521	0.323
	Right tilted	0.100	0.330	0.295	0.053	0.208	0.430	0.395	0.153	0.308	0.348	0.503	0.448	0.308
LTE B12	Left cheek	0.092	0.436	0.309	0.398	0.288	0.528	0.401	0.490	0.380	0.707	0.597	0.799	0.380
	Left tilted	0.036	0.358	0.269	0.100	0.374	0.394	0.305	0.136	0.410	0.369	0.643	0.405	0.410
	Right cheek	0.085	0.246	0.197	0.153	0.152	0.331	0.282	0.238	0.237	0.350	0.349	0.435	0.237
	Right tilted	0.030	0.330	0.295	0.053	0.208	0.360	0.325	0.083	0.238	0.348	0.503	0.378	0.238
LTE B13	Left cheek	0.119	0.436	0.309	0.398	0.288	0.555	0.428	0.517	0.407	0.707	0.597	0.826	0.407
	Left tilted	0.073	0.358	0.269	0.100	0.374	0.431	0.342	0.173	0.447	0.369	0.643	0.442	0.447
	Right cheek	0.125	0.246	0.197	0.153	0.152	0.371	0.322	0.278	0.277	0.350	0.349	0.475	0.277
	Right tilted	0.092	0.330	0.295	0.053	0.208	0.422	0.387	0.145	0.300	0.348	0.503	0.440	0.300
LTE B26	Left cheek	0.133	0.436	0.309	0.398	0.288	0.569	0.442	0.531	0.421	0.707	0.597	0.840	0.421
	Left tilted	0.066	0.358	0.269	0.100	0.374	0.424	0.335	0.166	0.440	0.369	0.643	0.435	0.440
	Right cheek	0.152	0.246	0.197	0.153	0.152	0.398	0.349	0.305	0.304	0.350	0.349	0.502	0.304
	Right tilted	0.091	0.330	0.295	0.053	0.208	0.421	0.386	0.144	0.299	0.348	0.503	0.439	0.299
N 26	Left cheek	0.161	0.436	0.309	0.398	0.288	0.597	0.470	0.559	0.449	0.707	0.597	0.868	0.449
	Left tilted	0.084	0.358	0.269	0.100	0.374	0.442	0.353	0.184	0.458	0.369	0.643	0.453	0.458
	Right cheek	0.183	0.246	0.197	0.153	0.152	0.429	0.380	0.336	0.335	0.350	0.349	0.533	0.335
	Right tilted	0.113	0.330	0.295	0.053	0.208	0.443	0.408	0.166	0.321	0.348	0.503	0.461	0.321

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant11	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 850	Left cheek	0.561	0.436	0.309	0.398	0.288	0.997	0.870	0.959	0.849	0.707	0.597	1.268	0.849
	Left tilted	0.103	0.358	0.269	0.100	0.374	0.461	0.372	0.203	0.477	0.369	0.643	0.472	0.477
	Right cheek	0.311	0.246	0.197	0.153	0.152	0.557	0.508	0.464	0.463	0.350	0.349	0.661	0.463
	Right tilted	0.100	0.330	0.295	0.053	0.208	0.430	0.395	0.153	0.308	0.348	0.503	0.448	0.308
WCDMA 5	Left cheek	0.659	0.436	0.309	0.398	0.288	1.095	0.968	1.057	0.947	0.707	0.597	1.366	0.947
	Left tilted	0.132	0.358	0.269	0.100	0.374	0.490	0.401	0.232	0.506	0.369	0.643	0.501	0.506
	Right cheek	0.411	0.246	0.197	0.153	0.152	0.657	0.608	0.564	0.563	0.350	0.349	0.761	0.563
	Right tilted	0.124	0.330	0.295	0.053	0.208	0.454	0.419	0.177	0.332	0.348	0.503	0.472	0.332
LTE B12	Left cheek	0.498	0.436	0.309	0.398	0.288	0.934	0.807	0.896	0.786	0.707	0.597	1.205	0.786
	Left tilted	0.104	0.358	0.269	0.100	0.374	0.462	0.373	0.204	0.478	0.369	0.643	0.473	0.478
	Right cheek	0.321	0.246	0.197	0.153	0.152	0.567	0.518	0.474	0.473	0.350	0.349	0.671	0.473
	Right tilted	0.091	0.330	0.295	0.053	0.208	0.421	0.386	0.144	0.299	0.348	0.503	0.439	0.299



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LTE B13	Left cheek	0.605	0.436	0.309	0.398	0.288	1.041	0.914	1.003	0.893	0.707	0.597	1.312	0.893
	Left tilted	0.124	0.358	0.269	0.100	0.374	0.482	0.393	0.224	0.498	0.369	0.643	0.493	0.498
	Right cheek	0.373	0.246	0.197	0.153	0.152	0.619	0.570	0.526	0.525	0.350	0.349	0.723	0.525
	Right tilted	0.113	0.330	0.295	0.053	0.208	0.443	0.408	0.166	0.321	0.348	0.503	0.461	0.321
LTE B26	Left cheek	0.574	0.436	0.309	0.398	0.288	1.010	0.883	0.972	0.862	0.707	0.597	1.281	0.862
	Left tilted	0.110	0.358	0.269	0.100	0.374	0.468	0.379	0.210	0.484	0.369	0.643	0.479	0.484
	Right cheek	0.327	0.246	0.197	0.153	0.152	0.573	0.524	0.480	0.479	0.350	0.349	0.677	0.479
	Right tilted	0.104	0.330	0.295	0.053	0.208	0.434	0.399	0.157	0.312	0.348	0.503	0.452	0.312
N 26	Left cheek	0.633	0.436	0.309	0.398	0.288	1.069	0.942	1.031	0.921	0.707	0.597	1.340	0.921
	Left tilted	0.116	0.358	0.269	0.100	0.374	0.474	0.385	0.216	0.490	0.369	0.643	0.485	0.490
	Right cheek	0.409	0.246	0.197	0.153	0.152	0.655	0.606	0.562	0.561	0.350	0.349	0.759	0.561
	Right tilted	0.134	0.330	0.295	0.053	0.208	0.464	0.429	0.187	0.342	0.348	0.503	0.482	0.342

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant41	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 1900	Left cheek	0.074	0.436	0.309	0.398	0.288	0.510	0.383	0.472	0.362	0.707	0.597	0.781	0.362
	Left tilted	0.051	0.358	0.269	0.100	0.374	0.409	0.320	0.151	0.425	0.369	0.643	0.420	0.425
	Right cheek	0.064	0.246	0.197	0.153	0.152	0.310	0.261	0.217	0.216	0.350	0.349	0.414	0.216
	Right tilted	0.048	0.330	0.295	0.053	0.208	0.378	0.343	0.101	0.256	0.348	0.503	0.396	0.256
WCDMA 2	Left cheek	0.097	0.436	0.309	0.398	0.288	0.533	0.406	0.495	0.385	0.707	0.597	0.804	0.385
	Left tilted	0.063	0.358	0.269	0.100	0.374	0.421	0.332	0.163	0.437	0.369	0.643	0.432	0.437
	Right cheek	0.084	0.246	0.197	0.153	0.152	0.330	0.281	0.237	0.236	0.350	0.349	0.434	0.236
	Right tilted	0.058	0.330	0.295	0.053	0.208	0.388	0.353	0.111	0.266	0.348	0.503	0.406	0.266
WCDMA 4	Left cheek	0.105	0.436	0.309	0.398	0.288	0.541	0.414	0.503	0.393	0.707	0.597	0.812	0.393
	Left tilted	0.066	0.358	0.269	0.100	0.374	0.424	0.335	0.166	0.440	0.369	0.643	0.435	0.440
	Right cheek	0.122	0.246	0.197	0.153	0.152	0.368	0.319	0.275	0.274	0.350	0.349	0.472	0.274
	Right tilted	0.084	0.330	0.295	0.053	0.208	0.414	0.379	0.137	0.292	0.348	0.503	0.432	0.292
LTE B2	Left cheek	0.099	0.436	0.309	0.398	0.288	0.535	0.408	0.497	0.387	0.707	0.597	0.806	0.387
	Left tilted	0.060	0.358	0.269	0.100	0.374	0.418	0.329	0.160	0.434	0.369	0.643	0.429	0.434
	Right cheek	0.084	0.246	0.197	0.153	0.152	0.330	0.281	0.237	0.236	0.350	0.349	0.434	0.236
	Right tilted	0.061	0.330	0.295	0.053	0.208	0.391	0.356	0.114	0.269	0.348	0.503	0.409	0.269
LTE B7	Left cheek	0.257	0.436	0.309	0.398	0.288	0.693	0.566	0.655	0.545	0.707	0.597	0.964	0.545
	Left tilted	0.078	0.358	0.269	0.100	0.374	0.436	0.347	0.178	0.452	0.369	0.643	0.447	0.452
	Right cheek	0.175	0.246	0.197	0.153	0.152	0.421	0.372	0.328	0.327	0.350	0.349	0.525	0.327
	Right tilted	0.164	0.330	0.295	0.053	0.208	0.494	0.459	0.217	0.372	0.348	0.503	0.512	0.372
LTE B41	Left cheek	0.170	0.436	0.309	0.398	0.288	0.606	0.479	0.568	0.458	0.707	0.597	0.877	0.458
	Left tilted	0.047	0.358	0.269	0.100	0.374	0.405	0.316	0.147	0.421	0.369	0.643	0.416	0.421
	Right cheek	0.100	0.246	0.197	0.153	0.152	0.346	0.297	0.253	0.252	0.350	0.349	0.450	0.252
	Right tilted	0.091	0.330	0.295	0.053	0.208	0.421	0.386	0.144	0.299	0.348	0.503	0.439	0.299
LTE B66	Left cheek	0.122	0.436	0.309	0.398	0.288	0.558	0.431	0.520	0.410	0.707	0.597	0.829	0.410
	Left tilted	0.082	0.358	0.269	0.100	0.374	0.440	0.351	0.182	0.456	0.369	0.643	0.451	0.456
	Right cheek	0.139	0.246	0.197	0.153	0.152	0.385	0.336	0.292	0.291	0.350	0.349	0.489	0.291
	Right tilted	0.093	0.330	0.295	0.053	0.208	0.423	0.388	0.146	0.301	0.348	0.503	0.441	0.301
N2	Left cheek	0.171	0.436	0.309	0.398	0.288	0.607	0.480	0.569	0.459	0.707	0.597	0.878	0.459
	Left tilted	0.123	0.358	0.269	0.100	0.374	0.481	0.392	0.223	0.497	0.369	0.643	0.492	0.497
	Right cheek	0.171	0.246	0.197	0.153	0.152	0.417	0.368	0.324	0.323	0.350	0.349	0.521	0.323
	Right tilted	0.115	0.330	0.295	0.053	0.208	0.445	0.410	0.168	0.323	0.348	0.503	0.463	0.323
N7	Left cheek	0.388	0.436	0.309	0.398	0.288	0.824	0.697	0.786	0.676	0.707	0.597	1.095	0.676



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	Left tilted	0.123	0.358	0.269	0.100	0.374	0.481	0.392	0.223	0.497	0.369	0.643	0.492	0.497
	Right cheek	0.220	0.246	0.197	0.153	0.152	0.466	0.417	0.373	0.372	0.350	0.349	0.570	0.372
	Right tilted	0.255	0.330	0.295	0.053	0.208	0.585	0.550	0.308	0.463	0.348	0.503	0.603	0.463
N41	Left cheek	0.581	0.436	0.309	0.398	0.288	1.017	0.890	0.979	0.869	0.707	0.597	1.288	0.869
	Left tilted	0.174	0.358	0.269	0.100	0.374	0.532	0.443	0.274	0.548	0.369	0.643	0.543	0.548
	Right cheek	0.352	0.246	0.197	0.153	0.152	0.598	0.549	0.505	0.504	0.350	0.349	0.702	0.504
	Right tilted	0.353	0.330	0.295	0.053	0.208	0.683	0.648	0.406	0.561	0.348	0.503	0.701	0.561
N66	Left cheek	0.157	0.436	0.309	0.398	0.288	0.593	0.466	0.555	0.445	0.707	0.597	0.864	0.445
	Left tilted	0.080	0.358	0.269	0.100	0.374	0.438	0.349	0.180	0.454	0.369	0.643	0.449	0.454
	Right cheek	0.166	0.246	0.197	0.153	0.152	0.412	0.363	0.319	0.318	0.350	0.349	0.516	0.318
	Right tilted	0.078	0.330	0.295	0.053	0.208	0.408	0.373	0.131	0.286	0.348	0.503	0.426	0.286

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant14	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 1900	Left cheek	0.375	0.436	0.309	0.398	0.288	0.811	0.684	0.773	0.663	0.707	0.597	1.082	0.663
	Left tilted	0.485	0.358	0.269	0.100	0.374	0.843	0.754	0.585	0.859	0.369	0.643	0.854	0.859
	Right cheek	0.665	0.246	0.197	0.153	0.152	0.911	0.862	0.818	0.817	0.350	0.349	1.015	0.817
	Right tilted	0.652	0.330	0.295	0.053	0.208	0.982	0.947	0.705	0.860	0.348	0.503	1.000	0.860
WCDMA 2	Left cheek	0.293	0.436	0.309	0.398	0.288	0.729	0.602	0.691	0.581	0.707	0.597	1.000	0.581
	Left tilted	0.361	0.358	0.269	0.100	0.374	0.719	0.630	0.461	0.735	0.369	0.643	0.730	0.735
	Right cheek	0.593	0.246	0.197	0.153	0.152	0.839	0.790	0.746	0.745	0.350	0.349	0.943	0.745
	Right tilted	0.506	0.330	0.295	0.053	0.208	0.836	0.801	0.559	0.714	0.348	0.503	0.854	0.714
WCDMA 4	Left cheek	0.453	0.436	0.309	0.398	0.288	0.889	0.762	0.851	0.741	0.707	0.597	1.160	0.741
	Left tilted	0.502	0.358	0.269	0.100	0.374	0.860	0.771	0.602	0.876	0.369	0.643	0.871	0.876
	Right cheek	0.911	0.246	0.197	0.153	0.152	1.157	1.108	1.064	1.063	0.350	0.349	1.261	1.063
	Right tilted	0.748	0.330	0.295	0.053	0.208	1.078	1.043	0.801	0.956	0.348	0.503	1.096	0.956
LTE B2	Left cheek	0.259	0.436	0.309	0.398	0.288	0.695	0.568	0.657	0.547	0.707	0.597	0.966	0.547
	Left tilted	0.314	0.358	0.269	0.100	0.374	0.672	0.583	0.414	0.688	0.369	0.643	0.683	0.688
	Right cheek	0.589	0.246	0.197	0.153	0.152	0.835	0.786	0.742	0.741	0.350	0.349	0.939	0.741
	Right tilted	0.460	0.330	0.295	0.053	0.208	0.790	0.755	0.513	0.668	0.348	0.503	0.808	0.668
LTE B7	Left cheek	0.209	0.436	0.309	0.398	0.288	0.645	0.518	0.607	0.497	0.707	0.597	0.916	0.497
	Left tilted	0.222	0.358	0.269	0.100	0.374	0.580	0.491	0.322	0.596	0.369	0.643	0.591	0.596
	Right cheek	0.619	0.246	0.197	0.153	0.152	0.865	0.816	0.772	0.771	0.350	0.349	0.969	0.771
	Right tilted	0.439	0.330	0.295	0.053	0.208	0.769	0.734	0.492	0.647	0.348	0.503	0.787	0.647
LTE B41	Left cheek	0.215	0.436	0.309	0.398	0.288	0.651	0.524	0.613	0.503	0.707	0.597	0.922	0.503
	Left tilted	0.253	0.358	0.269	0.100	0.374	0.611	0.522	0.353	0.627	0.369	0.643	0.622	0.627
	Right cheek	0.432	0.246	0.197	0.153	0.152	0.678	0.629	0.585	0.584	0.350	0.349	0.782	0.584
	Right tilted	0.481	0.330	0.295	0.053	0.208	0.811	0.776	0.534	0.689	0.348	0.503	0.829	0.689
LTE B42	Left cheek	0.271	0.436	0.309	0.398	0.288	0.707	0.580	0.669	0.559	0.707	0.597	0.978	0.559
	Left tilted	0.372	0.358	0.269	0.100	0.374	0.730	0.641	0.472	0.746	0.369	0.643	0.741	0.746
	Right cheek	0.483	0.246	0.197	0.153	0.152	0.729	0.680	0.636	0.635	0.350	0.349	0.833	0.635
	Right tilted	0.567	0.330	0.295	0.053	0.208	0.897	0.862	0.620	0.775	0.348	0.503	0.915	0.775
LTE B66	Left cheek	0.291	0.436	0.309	0.398	0.288	0.727	0.600	0.689	0.579	0.707	0.597	0.998	0.579
	Left tilted	0.308	0.358	0.269	0.100	0.374	0.666	0.577	0.408	0.682	0.369	0.643	0.677	0.682
	Right cheek	0.742	0.246	0.197	0.153	0.152	0.988	0.939	0.895	0.894	0.350	0.349	1.092	0.894
	Right tilted	0.465	0.330	0.295	0.053	0.208	0.795	0.760	0.518	0.673	0.348	0.503	0.813	0.673
N2	Left cheek	0.406	0.436	0.309	0.398	0.288	0.842	0.715	0.804	0.694	0.707	0.597	1.113	0.694
	Left tilted	0.502	0.358	0.269	0.100	0.374	0.860	0.771	0.602	0.876	0.369	0.643	0.871	0.876



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	Right cheek	0.660	0.246	0.197	0.153	0.152	0.906	0.857	0.813	0.812	0.350	0.349	1.010	0.812
	Right tilted	0.695	0.330	0.295	0.053	0.208	1.025	0.990	0.748	0.903	0.348	0.503	1.043	0.903
N7	Left cheek	0.370	0.436	0.309	0.398	0.288	0.806	0.679	0.768	0.658	0.707	0.597	1.077	0.658
	Left tilted	0.435	0.358	0.269	0.100	0.374	0.793	0.704	0.535	0.809	0.369	0.643	0.804	0.809
	Right cheek	0.775	0.246	0.197	0.153	0.152	1.021	0.972	0.928	0.927	0.350	0.349	1.125	0.927
	Right tilted	0.888	0.330	0.295	0.053	0.208	1.218	1.183	0.941	1.096	0.348	0.503	1.236	1.096
N41	Left cheek	0.338	0.436	0.309	0.398	0.288	0.774	0.647	0.736	0.626	0.707	0.597	1.045	0.626
	Left tilted	0.406	0.358	0.269	0.100	0.374	0.764	0.675	0.506	0.780	0.369	0.643	0.775	0.780
	Right cheek	0.720	0.246	0.197	0.153	0.152	0.966	0.917	0.873	0.872	0.350	0.349	1.070	0.872
	Right tilted	0.835	0.330	0.295	0.053	0.208	1.165	1.130	0.888	1.043	0.348	0.503	1.183	1.043
N66	Left cheek	0.490	0.436	0.309	0.398	0.288	0.926	0.799	0.888	0.778	0.707	0.597	1.197	0.778
	Left tilted	0.628	0.358	0.269	0.100	0.374	0.986	0.897	0.728	1.002	0.369	0.643	0.997	1.002
	Right cheek	0.974	0.246	0.197	0.153	0.152	1.220	1.171	1.127	1.126	0.350	0.349	1.324	1.126
	Right tilted	0.916	0.330	0.295	0.053	0.208	1.246	1.211	0.969	1.124	0.348	0.503	1.264	1.124
N77	Left cheek	0.230	0.436	0.309	0.398	0.288	0.666	0.539	0.628	0.518	0.707	0.597	0.937	0.518
	Left tilted	0.282	0.358	0.269	0.100	0.374	0.640	0.551	0.382	0.656	0.369	0.643	0.651	0.656
	Right cheek	0.394	0.246	0.197	0.153	0.152	0.640	0.591	0.547	0.546	0.350	0.349	0.744	0.546
	Right tilted	0.606	0.330	0.295	0.053	0.208	0.936	0.901	0.659	0.814	0.348	0.503	0.954	0.814

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant12	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B2	Left cheek	0.159	0.436	0.309	0.398	0.288	0.595	0.468	0.557	0.447	0.707	0.597	0.866	0.447
	Left tilted	0.068	0.358	0.269	0.100	0.374	0.426	0.337	0.168	0.442	0.369	0.643	0.437	0.442
	Right cheek	0.691	0.246	0.197	0.153	0.152	0.937	0.888	0.844	0.843	0.350	0.349	1.041	0.843
	Right tilted	0.155	0.330	0.295	0.053	0.208	0.485	0.450	0.208	0.363	0.348	0.503	0.503	0.363
LTE B7	Left cheek	0.167	0.436	0.309	0.398	0.288	0.603	0.476	0.565	0.455	0.707	0.597	0.874	0.455
	Left tilted	0.086	0.358	0.269	0.100	0.374	0.444	0.355	0.186	0.460	0.369	0.643	0.455	0.460
	Right cheek	0.739	0.246	0.197	0.153	0.152	0.985	0.936	0.892	0.891	0.350	0.349	1.089	0.891
	Right tilted	0.218	0.330	0.295	0.053	0.208	0.548	0.513	0.271	0.426	0.348	0.503	0.566	0.426
LTE B41	Left cheek	0.183	0.436	0.309	0.398	0.288	0.619	0.492	0.581	0.471	0.707	0.597	0.890	0.471
	Left tilted	0.099	0.358	0.269	0.100	0.374	0.457	0.368	0.199	0.473	0.369	0.643	0.468	0.473
	Right cheek	0.596	0.246	0.197	0.153	0.152	0.842	0.793	0.749	0.748	0.350	0.349	0.946	0.748
	Right tilted	0.241	0.330	0.295	0.053	0.208	0.571	0.536	0.294	0.449	0.348	0.503	0.589	0.449
LTE B66	Left cheek	0.194	0.436	0.309	0.398	0.288	0.630	0.503	0.592	0.482	0.707	0.597	0.901	0.482
	Left tilted	0.083	0.358	0.269	0.100	0.374	0.441	0.352	0.183	0.457	0.369	0.643	0.452	0.457
	Right cheek	0.855	0.246	0.197	0.153	0.152	1.101	1.052	1.008	1.007	0.350	0.349	1.205	1.007
	Right tilted	0.188	0.330	0.295	0.053	0.208	0.518	0.483	0.241	0.396	0.348	0.503	0.536	0.396
N2	Left cheek	0.207	0.436	0.309	0.398	0.288	0.643	0.516	0.605	0.495	0.707	0.597	0.914	0.495
	Left tilted	0.086	0.358	0.269	0.100	0.374	0.444	0.355	0.186	0.460	0.369	0.643	0.455	0.460
	Right cheek	0.626	0.246	0.197	0.153	0.152	0.872	0.823	0.779	0.778	0.350	0.349	0.976	0.778
	Right tilted	0.211	0.330	0.295	0.053	0.208	0.541	0.506	0.264	0.419	0.348	0.503	0.559	0.419
N7	Left cheek	0.122	0.436	0.309	0.398	0.288	0.558	0.431	0.520	0.410	0.707	0.597	0.829	0.410
	Left tilted	0.070	0.358	0.269	0.100	0.374	0.428	0.339	0.170	0.444	0.369	0.643	0.439	0.444
	Right cheek	0.416	0.246	0.197	0.153	0.152	0.662	0.613	0.569	0.568	0.350	0.349	0.766	0.568
	Right tilted	0.159	0.330	0.295	0.053	0.208	0.489	0.454	0.212	0.367	0.348	0.503	0.507	0.367
N41	Left cheek	0.306	0.436	0.309	0.398	0.288	0.742	0.615	0.704	0.594	0.707	0.597	1.013	0.594
	Left tilted	0.133	0.358	0.269	0.100	0.374	0.491	0.402	0.233	0.507	0.369	0.643	0.502	0.507
	Right cheek	0.822	0.246	0.197	0.153	0.152	1.068	1.019	0.975	0.974	0.350	0.349	1.172	0.974



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	Right tilted	0.303	0.330	0.295	0.053	0.208	0.633	0.598	0.356	0.511	0.348	0.503	0.651	0.511
N66	Left cheek	0.222	0.436	0.309	0.398	0.288	0.658	0.531	0.620	0.510	0.707	0.597	0.929	0.510
	Left tilted	0.113	0.358	0.269	0.100	0.374	0.471	0.382	0.213	0.487	0.369	0.643	0.482	0.487
	Right cheek	0.795	0.246	0.197	0.153	0.152	1.041	0.992	0.948	0.947	0.350	0.349	1.145	0.947
	Right tilted	0.279	0.330	0.295	0.053	0.208	0.609	0.574	0.332	0.487	0.348	0.503	0.627	0.487

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant24	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B2	Left cheek	0.490	0.436	0.309	0.398	0.288	0.926	0.799	0.888	0.778	0.707	0.597	1.197	0.778
	Left tilted	0.150	0.358	0.269	0.100	0.374	0.508	0.419	0.250	0.524	0.369	0.643	0.519	0.524
	Right cheek	0.099	0.246	0.197	0.153	0.152	0.345	0.296	0.252	0.251	0.350	0.349	0.449	0.251
	Right tilted	0.051	0.330	0.295	0.053	0.208	0.381	0.346	0.104	0.259	0.348	0.503	0.399	0.259
LTE B7	Left cheek	0.655	0.436	0.309	0.398	0.288	1.091	0.964	1.053	0.943	0.707	0.597	1.362	0.943
	Left tilted	0.302	0.358	0.269	0.100	0.374	0.660	0.571	0.402	0.676	0.369	0.643	0.671	0.676
	Right cheek	0.151	0.246	0.197	0.153	0.152	0.397	0.348	0.304	0.303	0.350	0.349	0.501	0.303
	Right tilted	0.110	0.330	0.295	0.053	0.208	0.440	0.405	0.163	0.318	0.348	0.503	0.458	0.318
LTE B41	Left cheek	0.646	0.436	0.309	0.398	0.288	1.082	0.955	1.044	0.934	0.707	0.597	1.353	0.934
	Left tilted	0.214	0.358	0.269	0.100	0.374	0.572	0.483	0.314	0.588	0.369	0.643	0.583	0.588
	Right cheek	0.110	0.246	0.197	0.153	0.152	0.356	0.307	0.263	0.262	0.350	0.349	0.460	0.262
	Right tilted	0.087	0.330	0.295	0.053	0.208	0.417	0.382	0.140	0.295	0.348	0.503	0.435	0.295
LTE B66	Left cheek	0.664	0.436	0.309	0.398	0.288	1.100	0.973	1.062	0.952	0.707	0.597	1.371	0.952
	Left tilted	0.263	0.358	0.269	0.100	0.374	0.621	0.532	0.363	0.637	0.369	0.643	0.632	0.637
	Right cheek	0.157	0.246	0.197	0.153	0.152	0.403	0.354	0.310	0.309	0.350	0.349	0.507	0.309
	Right tilted	0.081	0.330	0.295	0.053	0.208	0.411	0.376	0.134	0.289	0.348	0.503	0.429	0.289
N2	Left cheek	0.574	0.436	0.309	0.398	0.288	1.010	0.883	0.972	0.862	0.707	0.597	1.281	0.862
	Left tilted	0.180	0.358	0.269	0.100	0.374	0.538	0.449	0.280	0.554	0.369	0.643	0.549	0.554
	Right cheek	0.125	0.246	0.197	0.153	0.152	0.371	0.322	0.278	0.277	0.350	0.349	0.475	0.277
	Right tilted	0.074	0.330	0.295	0.053	0.208	0.404	0.369	0.127	0.282	0.348	0.503	0.422	0.282
N7	Left cheek	0.672	0.436	0.309	0.398	0.288	1.108	0.981	1.070	0.960	0.707	0.597	1.379	0.960
	Left tilted	0.355	0.358	0.269	0.100	0.374	0.713	0.624	0.455	0.729	0.369	0.643	0.724	0.729
	Right cheek	0.207	0.246	0.197	0.153	0.152	0.453	0.404	0.360	0.359	0.350	0.349	0.557	0.359
	Right tilted	0.141	0.330	0.295	0.053	0.208	0.471	0.436	0.194	0.349	0.348	0.503	0.489	0.349
N41	Left cheek	0.624	0.436	0.309	0.398	0.288	1.060	0.933	1.022	0.912	0.707	0.597	1.331	0.912
	Left tilted	0.329	0.358	0.269	0.100	0.374	0.687	0.598	0.429	0.703	0.369	0.643	0.698	0.703
	Right cheek	0.192	0.246	0.197	0.153	0.152	0.438	0.389	0.345	0.344	0.350	0.349	0.542	0.344
	Right tilted	0.150	0.330	0.295	0.053	0.208	0.480	0.445	0.203	0.358	0.348	0.503	0.498	0.358
N66	Left cheek	0.609	0.436	0.309	0.398	0.288	1.045	0.918	1.007	0.897	0.707	0.597	1.316	0.897
	Left tilted	0.245	0.358	0.269	0.100	0.374	0.603	0.514	0.345	0.619	0.369	0.643	0.614	0.619
	Right cheek	0.137	0.246	0.197	0.153	0.152	0.383	0.334	0.290	0.289	0.350	0.349	0.487	0.289
	Right tilted	0.085	0.330	0.295	0.053	0.208	0.415	0.380	0.138	0.293	0.348	0.503	0.433	0.293



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Test position		SARmax (W/kg)					Summed SAR							
		Main Ant23	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B42	Left cheek	0.378	0.436	0.309	0.398	0.288	0.814	0.687	0.776	0.666	0.707	0.597	1.085	0.666
	Left tilted	0.462	0.358	0.269	0.100	0.374	0.820	0.731	0.562	0.836	0.369	0.643	0.831	0.836
	Right cheek	0.113	0.246	0.197	0.153	0.152	0.359	0.310	0.266	0.265	0.350	0.349	0.463	0.265
	Right tilted	0.130	0.330	0.295	0.053	0.208	0.460	0.425	0.183	0.338	0.348	0.503	0.478	0.338
N77	Left cheek	0.603	0.436	0.309	0.398	0.288	1.039	0.912	1.001	0.891	0.707	0.597	1.310	0.891
	Left tilted	0.545	0.358	0.269	0.100	0.374	0.903	0.814	0.645	0.919	0.369	0.643	0.914	0.919
	Right cheek	0.182	0.246	0.197	0.153	0.152	0.428	0.379	0.335	0.334	0.350	0.349	0.532	0.334
	Right tilted	0.190	0.330	0.295	0.053	0.208	0.520	0.485	0.243	0.398	0.348	0.503	0.538	0.398

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant13	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B42	Left cheek	0.145	0.436	0.309	0.398	0.288	0.581	0.454	0.543	0.433	0.707	0.597	0.852	0.433
	Left tilted	0.130	0.358	0.269	0.100	0.374	0.488	0.399	0.230	0.504	0.369	0.643	0.499	0.504
	Right cheek	0.453	0.246	0.197	0.153	0.152	0.699	0.650	0.606	0.605	0.350	0.349	0.803	0.605
	Right tilted	0.314	0.330	0.295	0.053	0.208	0.644	0.609	0.367	0.522	0.348	0.503	0.662	0.522
N77	Left cheek	0.130	0.436	0.309	0.398	0.288	0.566	0.439	0.528	0.418	0.707	0.597	0.837	0.418
	Left tilted	0.117	0.358	0.269	0.100	0.374	0.475	0.386	0.217	0.491	0.369	0.643	0.486	0.491
	Right cheek	0.443	0.246	0.197	0.153	0.152	0.689	0.640	0.596	0.595	0.350	0.349	0.793	0.595
	Right tilted	0.356	0.330	0.295	0.053	0.208	0.686	0.651	0.409	0.564	0.348	0.503	0.704	0.564

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant21	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B42	Left cheek	0.648	0.436	0.309	0.398	0.288	1.084	0.957	1.046	0.936	0.707	0.597	1.355	0.936
	Left tilted	0.759	0.358	0.269	0.100	0.374	1.117	1.028	0.859	1.133	0.369	0.643	1.128	1.133
	Right cheek	0.407	0.246	0.197	0.153	0.152	0.653	0.604	0.560	0.559	0.350	0.349	0.757	0.559
	Right tilted	0.502	0.330	0.295	0.053	0.208	0.832	0.797	0.555	0.710	0.348	0.503	0.850	0.710
N77	Left cheek	0.310	0.436	0.309	0.398	0.288	0.746	0.619	0.708	0.598	0.707	0.597	1.017	0.598
	Left tilted	0.408	0.358	0.269	0.100	0.374	0.766	0.677	0.508	0.782	0.369	0.643	0.777	0.782
	Right cheek	0.319	0.246	0.197	0.153	0.152	0.565	0.516	0.472	0.471	0.350	0.349	0.669	0.471
	Right tilted	0.337	0.330	0.295	0.053	0.208	0.667	0.632	0.390	0.545	0.348	0.503	0.685	0.545



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Body_Worn:

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant31	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 850	Front side	0.102	0.221	0.120	0.066	0.049	0.323	0.222	0.168	0.151	0.186	0.169	0.288	0.151
	Back side	0.143	0.327	0.247	0.094	0.059	0.470	0.390	0.237	0.202	0.341	0.306	0.484	0.202
WCDMA 5	Front side	0.124	0.221	0.120	0.066	0.049	0.345	0.244	0.190	0.173	0.186	0.169	0.310	0.173
	Back side	0.183	0.327	0.247	0.094	0.059	0.510	0.430	0.277	0.242	0.341	0.306	0.524	0.242
LTE B12	Front side	0.112	0.221	0.120	0.066	0.049	0.333	0.232	0.178	0.161	0.186	0.169	0.298	0.161
	Back side	0.141	0.327	0.247	0.094	0.059	0.468	0.388	0.235	0.200	0.341	0.306	0.482	0.200
LTE B13	Front side	0.140	0.221	0.120	0.066	0.049	0.361	0.260	0.206	0.189	0.186	0.169	0.326	0.189
	Back side	0.171	0.327	0.247	0.094	0.059	0.498	0.418	0.265	0.230	0.341	0.306	0.512	0.230
LTE B26	Front side	0.110	0.221	0.120	0.066	0.049	0.331	0.230	0.176	0.159	0.186	0.169	0.296	0.159
	Back side	0.158	0.327	0.247	0.094	0.059	0.485	0.405	0.252	0.217	0.341	0.306	0.499	0.217
N 26	Front side	0.139	0.221	0.120	0.066	0.049	0.360	0.259	0.205	0.188	0.186	0.169	0.325	0.188
	Back side	0.150	0.327	0.247	0.094	0.059	0.477	0.397	0.244	0.209	0.341	0.306	0.491	0.209

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant11	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 850	Front side	0.380	0.221	0.120	0.066	0.049	0.601	0.500	0.446	0.429	0.186	0.169	0.566	0.429
	Back side	0.505	0.327	0.247	0.094	0.059	0.832	0.752	0.599	0.564	0.341	0.306	0.846	0.564
WCDMA 5	Front side	0.339	0.221	0.120	0.066	0.049	0.560	0.459	0.405	0.388	0.186	0.169	0.525	0.388
	Back side	0.443	0.327	0.247	0.094	0.059	0.770	0.690	0.537	0.502	0.341	0.306	0.784	0.502
LTE B12	Front side	0.289	0.221	0.120	0.066	0.049	0.510	0.409	0.355	0.338	0.186	0.169	0.475	0.338
	Back side	0.352	0.327	0.247	0.094	0.059	0.679	0.599	0.446	0.411	0.341	0.306	0.693	0.411
LTE B13	Front side	0.241	0.221	0.120	0.066	0.049	0.462	0.361	0.307	0.290	0.186	0.169	0.427	0.290
	Back side	0.282	0.327	0.247	0.094	0.059	0.609	0.529	0.376	0.341	0.341	0.306	0.623	0.341
LTE B26	Front side	0.397	0.221	0.120	0.066	0.049	0.618	0.517	0.463	0.446	0.186	0.169	0.583	0.446
	Back side	0.478	0.327	0.247	0.094	0.059	0.805	0.725	0.572	0.537	0.341	0.306	0.819	0.537
N 26	Front side	0.546	0.221	0.120	0.066	0.049	0.767	0.666	0.612	0.595	0.186	0.169	0.732	0.595
	Back side	0.594	0.327	0.247	0.094	0.059	0.921	0.841	0.688	0.653	0.341	0.306	0.935	0.653

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant41	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 1900	Front side	0.191	0.221	0.120	0.066	0.049	0.412	0.311	0.257	0.240	0.186	0.169	0.377	0.240
	Back side	0.227	0.327	0.247	0.094	0.059	0.554	0.474	0.321	0.286	0.341	0.306	0.568	0.286
WCDMA 2	Front side	0.171	0.221	0.120	0.066	0.049	0.392	0.291	0.237	0.220	0.186	0.169	0.357	0.220
	Back side	0.230	0.327	0.247	0.094	0.059	0.557	0.477	0.324	0.289	0.341	0.306	0.571	0.289
WCDMA 4	Front side	0.146	0.221	0.120	0.066	0.049	0.367	0.266	0.212	0.195	0.186	0.169	0.332	0.195
	Back side	0.193	0.327	0.247	0.094	0.059	0.520	0.440	0.287	0.252	0.341	0.306	0.534	0.252
LTE B2	Front side	0.171	0.221	0.120	0.066	0.049	0.392	0.291	0.237	0.220	0.186	0.169	0.357	0.220
	Back side	0.230	0.327	0.247	0.094	0.059	0.557	0.477	0.324	0.289	0.341	0.306	0.571	0.289
LTE B7	Front side	0.174	0.221	0.120	0.066	0.049	0.395	0.294	0.240	0.223	0.186	0.169	0.360	0.223



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	Back side	0.222	0.327	0.247	0.094	0.059	0.549	0.469	0.316	0.281	0.341	0.306	0.563	0.281
LTE B41	Front side	0.162	0.221	0.120	0.066	0.049	0.383	0.282	0.228	0.211	0.186	0.169	0.348	0.211
	Back side	0.230	0.327	0.247	0.094	0.059	0.557	0.477	0.324	0.289	0.341	0.306	0.571	0.289
LTE B66	Front side	0.101	0.221	0.120	0.066	0.049	0.322	0.221	0.167	0.150	0.186	0.169	0.287	0.150
	Back side	0.132	0.327	0.247	0.094	0.059	0.459	0.379	0.226	0.191	0.341	0.306	0.473	0.191
N2	Front side	0.286	0.221	0.120	0.066	0.049	0.507	0.406	0.352	0.335	0.186	0.169	0.472	0.335
	Back side	0.414	0.327	0.247	0.094	0.059	0.741	0.661	0.508	0.473	0.341	0.306	0.755	0.473
N7	Front side	0.226	0.221	0.120	0.066	0.049	0.447	0.346	0.292	0.275	0.186	0.169	0.412	0.275
	Back side	0.284	0.327	0.247	0.094	0.059	0.611	0.531	0.378	0.343	0.341	0.306	0.625	0.343
N41	Front side	0.222	0.221	0.120	0.066	0.049	0.443	0.342	0.288	0.271	0.186	0.169	0.408	0.271
	Back side	0.297	0.327	0.247	0.094	0.059	0.624	0.544	0.391	0.356	0.341	0.306	0.638	0.356
N66	Front side	0.226	0.221	0.120	0.066	0.049	0.447	0.346	0.292	0.275	0.186	0.169	0.412	0.275
	Back side	0.319	0.327	0.247	0.094	0.059	0.646	0.566	0.413	0.378	0.341	0.306	0.660	0.378

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant14	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 1900	Front side	0.136	0.221	0.120	0.066	0.049	0.357	0.256	0.202	0.185	0.186	0.169	0.322	0.185
	Back side	0.153	0.327	0.247	0.094	0.059	0.480	0.400	0.247	0.212	0.341	0.306	0.494	0.212
WCDMA 2	Front side	0.188	0.221	0.120	0.066	0.049	0.409	0.308	0.254	0.237	0.186	0.169	0.374	0.237
	Back side	0.303	0.327	0.247	0.094	0.059	0.630	0.550	0.397	0.362	0.341	0.306	0.644	0.362
WCDMA 4	Front side	0.290	0.221	0.120	0.066	0.049	0.511	0.410	0.356	0.339	0.186	0.169	0.476	0.339
	Back side	0.352	0.327	0.247	0.094	0.059	0.679	0.599	0.446	0.411	0.341	0.306	0.693	0.411
LTE B2	Front side	0.203	0.221	0.120	0.066	0.049	0.424	0.323	0.269	0.252	0.186	0.169	0.389	0.252
	Back side	0.265	0.327	0.247	0.094	0.059	0.592	0.512	0.359	0.324	0.341	0.306	0.606	0.324
LTE B7	Front side	0.336	0.221	0.120	0.066	0.049	0.557	0.456	0.402	0.385	0.186	0.169	0.522	0.385
	Back side	0.395	0.327	0.247	0.094	0.059	0.722	0.642	0.489	0.454	0.341	0.306	0.736	0.454
LTE B41	Front side	0.140	0.221	0.120	0.066	0.049	0.361	0.260	0.206	0.189	0.186	0.169	0.326	0.189
	Back side	0.174	0.327	0.247	0.094	0.059	0.501	0.421	0.268	0.233	0.341	0.306	0.515	0.233
LTE B42	Front side	0.250	0.221	0.120	0.066	0.049	0.471	0.370	0.316	0.299	0.186	0.169	0.436	0.299
	Back side	0.311	0.327	0.247	0.094	0.059	0.638	0.558	0.405	0.370	0.341	0.306	0.652	0.370
LTE B66	Front side	0.276	0.221	0.120	0.066	0.049	0.497	0.396	0.342	0.325	0.186	0.169	0.462	0.325
	Back side	0.398	0.327	0.247	0.094	0.059	0.725	0.645	0.492	0.457	0.341	0.306	0.739	0.457
N2	Front side	0.342	0.221	0.120	0.066	0.049	0.563	0.462	0.408	0.391	0.186	0.169	0.528	0.391
	Back side	0.486	0.327	0.247	0.094	0.059	0.813	0.733	0.580	0.545	0.341	0.306	0.827	0.545
N7	Front side	0.344	0.221	0.120	0.066	0.049	0.565	0.464	0.410	0.393	0.186	0.169	0.530	0.393
	Back side	0.462	0.327	0.247	0.094	0.059	0.789	0.709	0.556	0.521	0.341	0.306	0.803	0.521
N41	Front side	0.413	0.221	0.120	0.066	0.049	0.634	0.533	0.479	0.462	0.186	0.169	0.599	0.462
	Back side	0.467	0.327	0.247	0.094	0.059	0.794	0.714	0.561	0.526	0.341	0.306	0.808	0.526
N66	Front side	0.397	0.221	0.120	0.066	0.049	0.618	0.517	0.463	0.446	0.186	0.169	0.583	0.446
	Back side	0.504	0.327	0.247	0.094	0.059	0.831	0.751	0.598	0.563	0.341	0.306	0.845	0.563
N77	Front side	0.442	0.221	0.120	0.066	0.049	0.663	0.562	0.508	0.491	0.186	0.169	0.628	0.491
	Back side	0.481	0.327	0.247	0.094	0.059	0.808	0.728	0.575	0.540	0.341	0.306	0.822	0.540



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Test position		SARmax (W/kg)					Summed SAR							
		Main Ant12	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B2	Front side	0.119	0.221	0.120	0.066	0.049	0.340	0.239	0.185	0.168	0.186	0.169	0.305	0.168
	Back side	0.194	0.327	0.247	0.094	0.059	0.521	0.441	0.288	0.253	0.341	0.306	0.535	0.253
LTE B7	Front side	0.140	0.221	0.120	0.066	0.049	0.361	0.260	0.206	0.189	0.186	0.169	0.326	0.189
	Back side	0.218	0.327	0.247	0.094	0.059	0.545	0.465	0.312	0.277	0.341	0.306	0.559	0.277
LTE B41	Front side	0.147	0.221	0.120	0.066	0.049	0.368	0.267	0.213	0.196	0.186	0.169	0.333	0.196
	Back side	0.189	0.327	0.247	0.094	0.059	0.516	0.436	0.283	0.248	0.341	0.306	0.530	0.248
LTE B66	Front side	0.209	0.221	0.120	0.066	0.049	0.430	0.329	0.275	0.258	0.186	0.169	0.395	0.258
	Back side	0.250	0.327	0.247	0.094	0.059	0.577	0.497	0.344	0.309	0.341	0.306	0.591	0.309
N2	Front side	0.135	0.221	0.120	0.066	0.049	0.356	0.255	0.201	0.184	0.186	0.169	0.321	0.184
	Back side	0.156	0.327	0.247	0.094	0.059	0.483	0.403	0.250	0.215	0.341	0.306	0.497	0.215
N7	Front side	0.118	0.221	0.120	0.066	0.049	0.339	0.238	0.184	0.167	0.186	0.169	0.304	0.167
	Back side	0.141	0.327	0.247	0.094	0.059	0.468	0.388	0.235	0.200	0.341	0.306	0.482	0.200
N41	Front side	0.174	0.221	0.120	0.066	0.049	0.395	0.294	0.240	0.223	0.186	0.169	0.360	0.223
	Back side	0.204	0.327	0.247	0.094	0.059	0.531	0.451	0.298	0.263	0.341	0.306	0.545	0.263
N66	Front side	0.138	0.221	0.120	0.066	0.049	0.359	0.258	0.204	0.187	0.186	0.169	0.324	0.187
	Back side	0.165	0.327	0.247	0.094	0.059	0.492	0.412	0.259	0.224	0.341	0.306	0.506	0.224

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant24	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B2	Front side	0.019	0.221	0.120	0.066	0.049	0.240	0.139	0.085	0.068	0.186	0.169	0.205	0.068
	Back side	0.023	0.327	0.247	0.094	0.059	0.350	0.270	0.117	0.082	0.341	0.306	0.364	0.082
LTE B7	Front side	0.139	0.221	0.120	0.066	0.049	0.360	0.259	0.205	0.188	0.186	0.169	0.325	0.188
	Back side	0.196	0.327	0.247	0.094	0.059	0.523	0.443	0.290	0.255	0.341	0.306	0.537	0.255
LTE B41	Front side	0.115	0.221	0.120	0.066	0.049	0.336	0.235	0.181	0.164	0.186	0.169	0.301	0.164
	Back side	0.139	0.327	0.247	0.094	0.059	0.466	0.386	0.233	0.198	0.341	0.306	0.480	0.198
LTE B66	Front side	0.094	0.221	0.120	0.066	0.049	0.315	0.214	0.160	0.143	0.186	0.169	0.280	0.143
	Back side	0.140	0.327	0.247	0.094	0.059	0.467	0.387	0.234	0.199	0.341	0.306	0.481	0.199
N2	Front side	0.037	0.221	0.120	0.066	0.049	0.258	0.157	0.103	0.086	0.186	0.169	0.223	0.086
	Back side	0.048	0.327	0.247	0.094	0.059	0.375	0.295	0.142	0.107	0.341	0.306	0.389	0.107
N7	Front side	0.144	0.221	0.120	0.066	0.049	0.365	0.264	0.210	0.193	0.186	0.169	0.330	0.193
	Back side	0.165	0.327	0.247	0.094	0.059	0.492	0.412	0.259	0.224	0.341	0.306	0.506	0.224
N41	Front side	0.259	0.221	0.120	0.066	0.049	0.480	0.379	0.325	0.308	0.186	0.169	0.445	0.308
	Back side	0.300	0.327	0.247	0.094	0.059	0.627	0.547	0.394	0.359	0.341	0.306	0.641	0.359
N66	Front side	0.122	0.221	0.120	0.066	0.049	0.343	0.242	0.188	0.171	0.186	0.169	0.308	0.171
	Back side	0.143	0.327	0.247	0.094	0.059	0.470	0.390	0.237	0.202	0.341	0.306	0.484	0.202

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant23	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B42	Front side	0.091	0.221	0.120	0.066	0.049	0.312	0.211	0.157	0.140	0.186	0.169	0.277	0.140
	Back side	0.147	0.327	0.247	0.094	0.059	0.474	0.394	0.241	0.206	0.341	0.306	0.488	0.206
N77	Front side	0.165	0.221	0.120	0.066	0.049	0.386	0.285	0.231	0.214	0.186	0.169	0.351	0.214
	Back side	0.250	0.327	0.247	0.094	0.059	0.577	0.497	0.344	0.309	0.341	0.306	0.591	0.309



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Test position		SARmax (W/kg)					Summed SAR							
		Main Ant13	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B42	Front side	0.133	0.221	0.120	0.066	0.049	0.354	0.253	0.199	0.182	0.186	0.169	0.319	0.182
	Back side	0.145	0.327	0.247	0.094	0.059	0.472	0.392	0.239	0.204	0.341	0.306	0.486	0.204
N77	Front side	0.206	0.221	0.120	0.066	0.049	0.427	0.326	0.272	0.255	0.186	0.169	0.392	0.255
	Back side	0.238	0.327	0.247	0.094	0.059	0.565	0.485	0.332	0.297	0.341	0.306	0.579	0.297

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant21	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B42	Front side	0.063	0.221	0.120	0.066	0.049	0.284	0.183	0.129	0.112	0.186	0.169	0.249	0.112
	Back side	0.073	0.327	0.247	0.094	0.059	0.400	0.320	0.167	0.132	0.341	0.306	0.414	0.132
N77	Front side	0.068	0.221	0.120	0.066	0.049	0.289	0.188	0.134	0.117	0.186	0.169	0.254	0.117
	Back side	0.084	0.327	0.247	0.094	0.059	0.411	0.331	0.178	0.143	0.341	0.306	0.425	0.143



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Hotspot:

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant31	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 850	Front side	0.136	0.360	0.109	0.113	0.047	0.496	0.245	0.249	0.183	0.222	0.156	0.358	0.183
	Back side	0.210	0.519	0.249	0.210	0.073	0.729	0.459	0.420	0.283	0.459	0.322	0.669	0.283
	Right side	0.146	0.577	0.264	0.141	0.041	0.723	0.410	0.287	0.187	0.405	0.305	0.551	0.187
	Bottom side	0.100	0.000	0.000	0.000	0.000	0.100	0.100	0.100	0.100	0.000	0.000	0.100	0.100
WCDMA 5	Front side	0.196	0.360	0.109	0.113	0.047	0.556	0.305	0.309	0.243	0.222	0.156	0.418	0.243
	Back side	0.303	0.519	0.249	0.210	0.073	0.822	0.552	0.513	0.376	0.459	0.322	0.762	0.376
	Right side	0.203	0.577	0.264	0.141	0.041	0.780	0.467	0.344	0.244	0.405	0.305	0.608	0.244
	Bottom side	0.146	0.000	0.000	0.000	0.000	0.146	0.146	0.146	0.146	0.000	0.000	0.146	0.146
LTE B12	Front side	0.109	0.360	0.109	0.113	0.047	0.469	0.218	0.222	0.156	0.222	0.156	0.331	0.156
	Back side	0.155	0.519	0.249	0.210	0.073	0.674	0.404	0.365	0.228	0.459	0.322	0.614	0.228
	Right side	0.214	0.577	0.264	0.141	0.041	0.791	0.478	0.355	0.255	0.405	0.305	0.619	0.255
	Bottom side	0.082	0.000	0.000	0.000	0.000	0.082	0.082	0.082	0.082	0.000	0.000	0.082	0.082
LTE B13	Front side	0.202	0.360	0.109	0.113	0.047	0.562	0.311	0.315	0.249	0.222	0.156	0.424	0.249
	Back side	0.269	0.519	0.249	0.210	0.073	0.788	0.518	0.479	0.342	0.459	0.322	0.728	0.342
	Right side	0.104	0.577	0.264	0.141	0.041	0.681	0.368	0.245	0.145	0.405	0.305	0.509	0.145
	Bottom side	0.127	0.000	0.000	0.000	0.000	0.127	0.127	0.127	0.127	0.000	0.000	0.127	0.127
LTE B26	Front side	0.178	0.360	0.109	0.113	0.047	0.538	0.287	0.291	0.225	0.222	0.156	0.400	0.225
	Back side	0.281	0.519	0.249	0.210	0.073	0.800	0.530	0.491	0.354	0.459	0.322	0.740	0.354
	Right side	0.183	0.577	0.264	0.141	0.041	0.760	0.447	0.324	0.224	0.405	0.305	0.588	0.224
	Bottom side	0.152	0.000	0.000	0.000	0.000	0.152	0.152	0.152	0.152	0.000	0.000	0.152	0.152
N 26	Front side	0.149	0.360	0.109	0.113	0.047	0.509	0.258	0.262	0.196	0.222	0.156	0.371	0.196
	Back side	0.211	0.519	0.249	0.210	0.073	0.730	0.460	0.421	0.284	0.459	0.322	0.670	0.284
	Right side	0.194	0.577	0.264	0.141	0.041	0.771	0.458	0.335	0.235	0.405	0.305	0.599	0.235
	Bottom side	0.116	0.000	0.000	0.000	0.000	0.116	0.116	0.116	0.116	0.000	0.000	0.116	0.116

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant11	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 850	Front side	0.319	0.360	0.109	0.113	0.047	0.679	0.428	0.432	0.366	0.222	0.156	0.541	0.366
	Back side	0.378	0.519	0.249	0.210	0.073	0.897	0.627	0.588	0.451	0.459	0.322	0.837	0.451
	Left side	0.768	0.000	0.083	0.000	0.000	0.768	0.851	0.768	0.768	0.083	0.083	0.851	0.768
	Bottom side	0.072	0.000	0.000	0.000	0.000	0.072	0.072	0.072	0.072	0.000	0.000	0.072	0.072
WCDMA 5	Front side	0.293	0.360	0.109	0.113	0.047	0.653	0.402	0.406	0.340	0.222	0.156	0.515	0.340
	Back side	0.359	0.519	0.249	0.210	0.073	0.878	0.608	0.569	0.432	0.459	0.322	0.818	0.432
	Left side	0.608	0.000	0.083	0.000	0.000	0.608	0.691	0.608	0.608	0.083	0.083	0.691	0.608
	Bottom side	0.043	0.000	0.000	0.000	0.000	0.043	0.043	0.043	0.043	0.000	0.000	0.043	0.043
LTE B12	Front side	0.274	0.360	0.109	0.113	0.047	0.634	0.383	0.387	0.321	0.222	0.156	0.496	0.321
	Back side	0.332	0.519	0.249	0.210	0.073	0.851	0.581	0.542	0.405	0.459	0.322	0.791	0.405
	Left side	0.635	0.000	0.083	0.000	0.000	0.635	0.718	0.635	0.635	0.083	0.083	0.718	0.635
	Bottom side	0.015	0.000	0.000	0.000	0.000	0.015	0.015	0.015	0.015	0.000	0.000	0.015	0.015
LTE B13	Front side	0.173	0.360	0.109	0.113	0.047	0.533	0.282	0.286	0.220	0.222	0.156	0.395	0.220
	Back side	0.214	0.519	0.249	0.210	0.073	0.733	0.463	0.424	0.287	0.459	0.322	0.673	0.287
	Left side	0.385	0.000	0.083	0.000	0.000	0.385	0.468	0.385	0.385	0.083	0.083	0.468	0.385



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	Bottom side	0.007	0.000	0.000	0.000	0.000	0.007	0.007	0.007	0.007	0.000	0.000	0.007	0.007
LTE B26	Front side	0.315	0.360	0.109	0.113	0.047	0.675	0.424	0.428	0.362	0.222	0.156	0.537	0.362
	Back side	0.384	0.519	0.249	0.210	0.073	0.903	0.633	0.594	0.457	0.459	0.322	0.843	0.457
	Left side	0.039	0.000	0.083	0.000	0.000	0.039	0.122	0.039	0.039	0.083	0.083	0.122	0.039
	Bottom side	0.009	0.000	0.000	0.000	0.000	0.009	0.009	0.009	0.009	0.000	0.000	0.009	0.009
N 26	Front side	0.409	0.360	0.109	0.113	0.047	0.769	0.518	0.522	0.456	0.222	0.156	0.631	0.456
	Back side	0.448	0.519	0.249	0.210	0.073	0.967	0.697	0.658	0.521	0.459	0.322	0.907	0.521
	Left side	0.973	0.000	0.083	0.000	0.000	0.973	1.056	0.973	0.973	0.083	0.083	1.056	0.973
	Bottom side	0.054	0.000	0.000	0.000	0.000	0.054	0.054	0.054	0.054	0.000	0.000	0.054	0.054

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant41	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 1900	Front side	0.272	0.360	0.109	0.113	0.047	0.632	0.381	0.385	0.319	0.222	0.156	0.494	0.319
	Back side	0.303	0.519	0.249	0.210	0.073	0.822	0.552	0.513	0.376	0.459	0.322	0.762	0.376
	Left side	0.114	0.000	0.083	0.000	0.000	0.114	0.197	0.114	0.114	0.083	0.083	0.197	0.114
	Bottom side	0.469	0.000	0.000	0.000	0.000	0.469	0.469	0.469	0.469	0.000	0.000	0.469	0.469
WCDMA 2	Front side	0.188	0.360	0.109	0.113	0.047	0.548	0.297	0.301	0.235	0.222	0.156	0.410	0.235
	Back side	0.276	0.519	0.249	0.210	0.073	0.795	0.525	0.486	0.349	0.459	0.322	0.735	0.349
	Left side	0.099	0.000	0.083	0.000	0.000	0.099	0.182	0.099	0.099	0.083	0.083	0.182	0.099
	Bottom side	0.324	0.000	0.000	0.000	0.000	0.324	0.324	0.324	0.324	0.000	0.000	0.324	0.324
WCDMA 4	Front side	0.222	0.360	0.109	0.113	0.047	0.582	0.331	0.335	0.269	0.222	0.156	0.444	0.269
	Back side	0.331	0.519	0.249	0.210	0.073	0.850	0.580	0.541	0.404	0.459	0.322	0.790	0.404
	Left side	0.089	0.000	0.083	0.000	0.000	0.089	0.172	0.089	0.089	0.083	0.083	0.172	0.089
	Bottom side	0.425	0.000	0.000	0.000	0.000	0.425	0.425	0.425	0.425	0.000	0.000	0.425	0.425
LTE B2	Front side	0.241	0.360	0.109	0.113	0.047	0.601	0.350	0.354	0.288	0.222	0.156	0.463	0.288
	Back side	0.328	0.519	0.249	0.210	0.073	0.847	0.577	0.538	0.401	0.459	0.322	0.787	0.401
	Left side	0.111	0.000	0.083	0.000	0.000	0.111	0.194	0.111	0.111	0.083	0.083	0.194	0.111
	Bottom side	0.432	0.000	0.000	0.000	0.000	0.432	0.432	0.432	0.432	0.000	0.000	0.432	0.432
LTE B7	Front side	0.209	0.360	0.109	0.113	0.047	0.569	0.318	0.322	0.256	0.222	0.156	0.431	0.256
	Back side	0.273	0.519	0.249	0.210	0.073	0.792	0.522	0.483	0.346	0.459	0.322	0.732	0.346
	Left side	0.068	0.000	0.083	0.000	0.000	0.068	0.151	0.068	0.068	0.083	0.083	0.151	0.068
	Bottom side	0.473	0.000	0.000	0.000	0.000	0.473	0.473	0.473	0.473	0.000	0.000	0.473	0.473
LTE B41	Front side	0.138	0.360	0.109	0.113	0.047	0.498	0.247	0.251	0.185	0.222	0.156	0.360	0.185
	Back side	0.254	0.519	0.249	0.210	0.073	0.773	0.503	0.464	0.327	0.459	0.322	0.713	0.327
	Left side	0.037	0.000	0.083	0.000	0.000	0.037	0.120	0.037	0.037	0.083	0.083	0.120	0.037
	Bottom side	0.390	0.000	0.000	0.000	0.000	0.390	0.390	0.390	0.390	0.000	0.000	0.390	0.390
LTE B66	Front side	0.222	0.360	0.109	0.113	0.047	0.582	0.331	0.335	0.269	0.222	0.156	0.444	0.269
	Back side	0.305	0.519	0.249	0.210	0.073	0.824	0.554	0.515	0.378	0.459	0.322	0.764	0.378
	Left side	0.080	0.000	0.083	0.000	0.000	0.080	0.163	0.080	0.080	0.083	0.083	0.163	0.080
	Bottom side	0.409	0.000	0.000	0.000	0.000	0.409	0.409	0.409	0.409	0.000	0.000	0.409	0.409
N2	Front side	0.303	0.360	0.109	0.113	0.047	0.663	0.412	0.416	0.350	0.222	0.156	0.525	0.350
	Back side	0.473	0.519	0.249	0.210	0.073	0.992	0.722	0.683	0.546	0.459	0.322	0.932	0.546
	Left side	0.154	0.000	0.083	0.000	0.000	0.154	0.237	0.154	0.154	0.083	0.083	0.237	0.154
	Bottom side	0.613	0.000	0.000	0.000	0.000	0.613	0.613	0.613	0.613	0.000	0.000	0.613	0.613
N7	Front side	0.219	0.360	0.109	0.113	0.047	0.579	0.328	0.332	0.266	0.222	0.156	0.441	0.266
	Back side	0.286	0.519	0.249	0.210	0.073	0.805	0.535	0.496	0.359	0.459	0.322	0.745	0.359
	Left side	0.069	0.000	0.083	0.000	0.000	0.069	0.152	0.069	0.069	0.083	0.083	0.152	0.069
	Bottom side	0.450	0.000	0.000	0.000	0.000	0.450	0.450	0.450	0.450	0.000	0.000	0.450	0.450
N41	Front side	0.294	0.360	0.109	0.113	0.047	0.654	0.403	0.407	0.341	0.222	0.156	0.516	0.341



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	Back side	0.380	0.519	0.249	0.210	0.073	0.899	0.629	0.590	0.453	0.459	0.322	0.839	0.453
	Left side	0.090	0.000	0.083	0.000	0.000	0.090	0.173	0.090	0.090	0.083	0.083	0.173	0.090
	Bottom side	0.644	0.000	0.000	0.000	0.000	0.644	0.644	0.644	0.644	0.000	0.000	0.644	0.644
N66	Front side	0.211	0.360	0.109	0.113	0.047	0.571	0.320	0.324	0.258	0.222	0.156	0.433	0.258
	Back side	0.299	0.519	0.249	0.210	0.073	0.818	0.548	0.509	0.372	0.459	0.322	0.758	0.372
	Left side	0.087	0.000	0.083	0.000	0.000	0.087	0.170	0.087	0.087	0.083	0.083	0.170	0.087
	Bottom side	0.403	0.000	0.000	0.000	0.000	0.403	0.403	0.403	0.403	0.000	0.000	0.403	0.403

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant14	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
GSM 1900	Front side	0.118	0.360	0.109	0.113	0.047	0.478	0.227	0.231	0.165	0.222	0.156	0.340	0.165
	Back side	0.160	0.519	0.249	0.210	0.073	0.679	0.409	0.370	0.233	0.459	0.322	0.619	0.233
	Left side	0.090	0.000	0.083	0.000	0.000	0.090	0.173	0.090	0.090	0.083	0.083	0.173	0.090
	Top side	0.232	0.422	0.373	0.071	0.074	0.654	0.605	0.303	0.306	0.444	0.447	0.676	0.306
WCDMA 2	Front side	0.190	0.360	0.109	0.113	0.047	0.550	0.299	0.303	0.237	0.222	0.156	0.412	0.237
	Back side	0.265	0.519	0.249	0.210	0.073	0.784	0.514	0.475	0.338	0.459	0.322	0.724	0.338
	Left side	0.093	0.000	0.083	0.000	0.000	0.093	0.176	0.093	0.093	0.083	0.083	0.176	0.093
	Top side	0.286	0.422	0.373	0.071	0.074	0.708	0.659	0.357	0.360	0.444	0.447	0.730	0.360
WCDMA 4	Front side	0.207	0.360	0.109	0.113	0.047	0.567	0.316	0.320	0.254	0.222	0.156	0.429	0.254
	Back side	0.312	0.519	0.249	0.210	0.073	0.831	0.561	0.522	0.385	0.459	0.322	0.771	0.385
	Left side	0.098	0.000	0.083	0.000	0.000	0.098	0.181	0.098	0.098	0.083	0.083	0.181	0.098
	Top side	0.386	0.422	0.373	0.071	0.074	0.808	0.759	0.457	0.460	0.444	0.447	0.830	0.460
LTE B2	Front side	0.262	0.360	0.109	0.113	0.047	0.622	0.371	0.375	0.309	0.222	0.156	0.484	0.309
	Back side	0.364	0.519	0.249	0.210	0.073	0.883	0.613	0.574	0.437	0.459	0.322	0.823	0.437
	Left side	0.204	0.000	0.083	0.000	0.000	0.204	0.287	0.204	0.204	0.083	0.083	0.287	0.204
	Top side	0.407	0.422	0.373	0.071	0.074	0.829	0.780	0.478	0.481	0.444	0.447	0.851	0.481
LTE B7	Front side	0.176	0.360	0.109	0.113	0.047	0.536	0.285	0.289	0.223	0.222	0.156	0.398	0.223
	Back side	0.222	0.519	0.249	0.210	0.073	0.741	0.471	0.432	0.295	0.459	0.322	0.681	0.295
	Left side	0.123	0.000	0.083	0.000	0.000	0.123	0.206	0.123	0.123	0.083	0.083	0.206	0.123
	Top side	0.257	0.422	0.373	0.071	0.074	0.679	0.630	0.328	0.331	0.444	0.447	0.701	0.331
LTE B41	Front side	0.229	0.360	0.109	0.113	0.047	0.589	0.338	0.342	0.276	0.222	0.156	0.451	0.276
	Back side	0.185	0.519	0.249	0.210	0.073	0.704	0.434	0.395	0.258	0.459	0.322	0.644	0.258
	Left side	0.201	0.000	0.083	0.000	0.000	0.201	0.284	0.201	0.201	0.083	0.083	0.284	0.201
	Top side	0.274	0.422	0.373	0.071	0.074	0.696	0.647	0.345	0.348	0.444	0.447	0.718	0.348
LTE B42	Front side	0.099	0.360	0.109	0.113	0.047	0.459	0.208	0.212	0.146	0.222	0.156	0.321	0.146
	Back side	0.124	0.519	0.249	0.210	0.073	0.643	0.373	0.334	0.197	0.459	0.322	0.583	0.197
	Left side	0.054	0.000	0.083	0.000	0.000	0.054	0.137	0.054	0.054	0.083	0.083	0.137	0.054
	Top side	0.309	0.422	0.373	0.071	0.074	0.731	0.682	0.380	0.383	0.444	0.447	0.753	0.383
LTE B66	Front side	0.249	0.360	0.109	0.113	0.047	0.609	0.358	0.362	0.296	0.222	0.156	0.471	0.296
	Back side	0.360	0.519	0.249	0.210	0.073	0.879	0.609	0.570	0.433	0.459	0.322	0.819	0.433
	Left side	0.113	0.000	0.083	0.000	0.000	0.113	0.196	0.113	0.113	0.083	0.083	0.196	0.113
	Top side	0.413	0.422	0.373	0.071	0.074	0.835	0.786	0.484	0.487	0.444	0.447	0.857	0.487
N2	Front side	0.306	0.360	0.109	0.113	0.047	0.666	0.415	0.419	0.353	0.222	0.156	0.528	0.353
	Back side	0.347	0.519	0.249	0.210	0.073	0.866	0.596	0.557	0.420	0.459	0.322	0.806	0.420
	Left side	0.580	0.000	0.083	0.000	0.000	0.580	0.663	0.580	0.580	0.083	0.083	0.663	0.580
	Top side	0.617	0.422	0.373	0.071	0.074	1.039	0.990	0.688	0.691	0.444	0.447	1.061	0.691
N7	Front side	0.287	0.360	0.109	0.113	0.047	0.647	0.396	0.400	0.334	0.222	0.156	0.509	0.334
	Back side	0.194	0.519	0.249	0.210	0.073	0.713	0.443	0.404	0.267	0.459	0.322	0.653	0.267
	Left side	0.150	0.000	0.083	0.000	0.000	0.150	0.233	0.150	0.150	0.083	0.083	0.233	0.150



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	Top side	0.451	0.422	0.373	0.071	0.074	0.873	0.824	0.522	0.525	0.444	0.447	0.895	0.525
N41	Front side	0.211	0.360	0.109	0.113	0.047	0.571	0.320	0.324	0.258	0.222	0.156	0.433	0.258
	Back side	0.308	0.519	0.249	0.210	0.073	0.827	0.557	0.518	0.381	0.459	0.322	0.767	0.381
	Left side	0.185	0.000	0.083	0.000	0.000	0.185	0.268	0.185	0.185	0.083	0.083	0.268	0.185
	Top side	0.438	0.422	0.373	0.071	0.074	0.860	0.811	0.509	0.512	0.444	0.447	0.882	0.512
N66	Front side	0.251	0.360	0.109	0.113	0.047	0.611	0.360	0.364	0.298	0.222	0.156	0.473	0.298
	Back side	0.211	0.519	0.249	0.210	0.073	0.730	0.460	0.421	0.284	0.459	0.322	0.670	0.284
	Left side	0.115	0.000	0.083	0.000	0.000	0.115	0.198	0.115	0.115	0.083	0.083	0.198	0.115
	Top side	0.424	0.422	0.373	0.071	0.074	0.846	0.797	0.495	0.498	0.444	0.447	0.868	0.498
N77	Front side	0.150	0.360	0.109	0.113	0.047	0.510	0.259	0.263	0.197	0.222	0.156	0.372	0.197
	Back side	0.184	0.519	0.249	0.210	0.073	0.703	0.433	0.394	0.257	0.459	0.322	0.643	0.257
	Left side	0.075	0.000	0.083	0.000	0.000	0.075	0.158	0.075	0.075	0.083	0.083	0.158	0.075
	Top side	0.483	0.422	0.373	0.071	0.074	0.905	0.856	0.554	0.557	0.444	0.447	0.927	0.557

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant12	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B2	Front side	0.185	0.360	0.109	0.113	0.047	0.545	0.294	0.298	0.232	0.222	0.156	0.407	0.232
	Back side	0.318	0.519	0.249	0.210	0.073	0.837	0.567	0.528	0.391	0.459	0.322	0.777	0.391
	Left side	0.359	0.000	0.083	0.000	0.000	0.359	0.442	0.359	0.359	0.083	0.083	0.442	0.359
	Top side	0.049	0.422	0.373	0.071	0.074	0.471	0.422	0.120	0.123	0.444	0.447	0.493	0.123
LTE B7	Front side	0.198	0.360	0.109	0.113	0.047	0.558	0.307	0.311	0.245	0.222	0.156	0.420	0.245
	Back side	0.336	0.519	0.249	0.210	0.073	0.855	0.585	0.546	0.409	0.459	0.322	0.795	0.409
	Left side	0.336	0.000	0.083	0.000	0.000	0.336	0.419	0.336	0.336	0.083	0.083	0.419	0.336
	Top side	0.055	0.422	0.373	0.071	0.074	0.477	0.428	0.126	0.129	0.444	0.447	0.499	0.129
LTE B41	Front side	0.168	0.360	0.109	0.113	0.047	0.528	0.277	0.281	0.215	0.222	0.156	0.390	0.215
	Back side	0.197	0.519	0.249	0.210	0.073	0.716	0.446	0.407	0.270	0.459	0.322	0.656	0.270
	Left side	0.299	0.000	0.083	0.000	0.000	0.299	0.382	0.299	0.299	0.083	0.083	0.382	0.299
	Top side	0.047	0.422	0.373	0.071	0.074	0.469	0.420	0.118	0.121	0.444	0.447	0.491	0.121
LTE B66	Front side	0.197	0.360	0.109	0.113	0.047	0.557	0.306	0.310	0.244	0.222	0.156	0.419	0.244
	Back side	0.336	0.519	0.249	0.210	0.073	0.855	0.585	0.546	0.409	0.459	0.322	0.795	0.409
	Left side	0.384	0.000	0.083	0.000	0.000	0.384	0.467	0.384	0.384	0.083	0.083	0.467	0.384
	Top side	0.073	0.422	0.373	0.071	0.074	0.495	0.446	0.144	0.147	0.444	0.447	0.517	0.147
N2	Front side	0.254	0.360	0.109	0.113	0.047	0.614	0.363	0.367	0.301	0.222	0.156	0.476	0.301
	Back side	0.314	0.519	0.249	0.210	0.073	0.833	0.563	0.524	0.387	0.459	0.322	0.773	0.387
	Left side	0.580	0.000	0.083	0.000	0.000	0.580	0.663	0.580	0.580	0.083	0.083	0.663	0.580
	Top side	0.524	0.422	0.373	0.071	0.074	0.946	0.897	0.595	0.598	0.444	0.447	0.968	0.598
N7	Front side	0.165	0.360	0.109	0.113	0.047	0.525	0.274	0.278	0.212	0.222	0.156	0.387	0.212
	Back side	0.190	0.519	0.249	0.210	0.073	0.709	0.439	0.400	0.263	0.459	0.322	0.649	0.263
	Left side	0.283	0.000	0.083	0.000	0.000	0.283	0.366	0.283	0.283	0.083	0.083	0.366	0.283
	Top side	0.045	0.422	0.373	0.071	0.074	0.467	0.418	0.116	0.119	0.444	0.447	0.489	0.119
N41	Front side	0.244	0.360	0.109	0.113	0.047	0.604	0.353	0.357	0.291	0.222	0.156	0.466	0.291
	Back side	0.277	0.519	0.249	0.210	0.073	0.796	0.526	0.487	0.350	0.459	0.322	0.736	0.350
	Left side	0.494	0.000	0.083	0.000	0.000	0.494	0.577	0.494	0.494	0.083	0.083	0.577	0.494
	Top side	0.072	0.422	0.373	0.071	0.074	0.494	0.445	0.143	0.146	0.444	0.447	0.516	0.146
N66	Front side	0.222	0.360	0.109	0.113	0.047	0.582	0.331	0.335	0.269	0.222	0.156	0.444	0.269
	Back side	0.240	0.519	0.249	0.210	0.073	0.759	0.489	0.450	0.313	0.459	0.322	0.699	0.313
	Left side	0.480	0.000	0.083	0.000	0.000	0.480	0.563	0.480	0.480	0.083	0.083	0.563	0.480
	Top side	0.066	0.422	0.373	0.071	0.074	0.488	0.439	0.137	0.140	0.444	0.447	0.510	0.140



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Test position		SARmax (W/kg)					Summed SAR							
		Main Ant24	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B2	Front side	0.074	0.360	0.109	0.113	0.047	0.434	0.183	0.187	0.121	0.222	0.156	0.296	0.121
	Back side	0.114	0.519	0.249	0.210	0.073	0.633	0.363	0.324	0.187	0.459	0.322	0.573	0.187
	Right side	0.097	0.577	0.264	0.141	0.041	0.674	0.361	0.238	0.138	0.405	0.305	0.502	0.138
	Top side	0.025	0.422	0.373	0.071	0.074	0.447	0.398	0.096	0.099	0.444	0.447	0.469	0.099
LTE B7	Front side	0.206	0.360	0.109	0.113	0.047	0.566	0.315	0.319	0.253	0.222	0.156	0.428	0.253
	Back side	0.287	0.519	0.249	0.210	0.073	0.806	0.536	0.497	0.360	0.459	0.322	0.746	0.360
	Right side	0.317	0.577	0.264	0.141	0.041	0.894	0.581	0.458	0.358	0.405	0.305	0.722	0.358
	Top side	0.060	0.422	0.373	0.071	0.074	0.482	0.433	0.131	0.134	0.444	0.447	0.504	0.134
LTE B41	Front side	0.171	0.360	0.109	0.113	0.047	0.531	0.280	0.284	0.218	0.222	0.156	0.393	0.218
	Back side	0.225	0.519	0.249	0.210	0.073	0.744	0.474	0.435	0.298	0.459	0.322	0.684	0.298
	Right side	0.027	0.577	0.264	0.141	0.041	0.604	0.291	0.168	0.068	0.405	0.305	0.432	0.068
	Top side	0.097	0.422	0.373	0.071	0.074	0.519	0.470	0.168	0.171	0.444	0.447	0.541	0.171
LTE B66	Front side	0.218	0.360	0.109	0.113	0.047	0.578	0.327	0.331	0.265	0.222	0.156	0.440	0.265
	Back side	0.318	0.519	0.249	0.210	0.073	0.837	0.567	0.528	0.391	0.459	0.322	0.777	0.391
	Right side	0.289	0.577	0.264	0.141	0.041	0.866	0.553	0.430	0.330	0.405	0.305	0.694	0.330
	Top side	0.017	0.422	0.373	0.071	0.074	0.439	0.390	0.088	0.091	0.444	0.447	0.461	0.091
N2	Front side	0.084	0.360	0.109	0.113	0.047	0.444	0.193	0.197	0.131	0.222	0.156	0.306	0.131
	Back side	0.104	0.519	0.249	0.210	0.073	0.623	0.353	0.314	0.177	0.459	0.322	0.563	0.177
	Right side	0.130	0.577	0.264	0.141	0.041	0.707	0.394	0.271	0.171	0.405	0.305	0.535	0.171
	Top side	0.056	0.422	0.373	0.071	0.074	0.478	0.429	0.127	0.130	0.444	0.447	0.500	0.130
N7	Front side	0.219	0.360	0.109	0.113	0.047	0.579	0.328	0.332	0.266	0.222	0.156	0.441	0.266
	Back side	0.360	0.519	0.249	0.210	0.073	0.879	0.609	0.570	0.433	0.459	0.322	0.819	0.433
	Right side	0.431	0.577	0.264	0.141	0.041	1.008	0.695	0.572	0.472	0.405	0.305	0.836	0.472
	Top side	0.084	0.422	0.373	0.071	0.074	0.506	0.457	0.155	0.158	0.444	0.447	0.528	0.158
N41	Front side	0.408	0.360	0.109	0.113	0.047	0.768	0.517	0.521	0.455	0.222	0.156	0.630	0.455
	Back side	0.313	0.519	0.249	0.210	0.073	0.832	0.562	0.523	0.386	0.459	0.322	0.772	0.386
	Right side	0.727	0.577	0.264	0.141	0.041	1.304	0.991	0.868	0.768	0.405	0.305	1.132	0.768
	Top side	0.169	0.422	0.373	0.071	0.074	0.591	0.542	0.240	0.243	0.444	0.447	0.613	0.243
N66	Front side	0.223	0.360	0.109	0.113	0.047	0.583	0.332	0.336	0.270	0.222	0.156	0.445	0.270
	Back side	0.321	0.519	0.249	0.210	0.073	0.840	0.570	0.531	0.394	0.459	0.322	0.780	0.394
	Right side	0.478	0.577	0.264	0.141	0.041	1.055	0.742	0.619	0.519	0.405	0.305	0.883	0.519
	Top side	0.170	0.422	0.373	0.071	0.074	0.592	0.543	0.241	0.244	0.444	0.447	0.614	0.244

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant23	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5	1+2	1+3	1+4	1+5	3+4	3+5	1+3+4	1+3+5
LTE B42	Front side	0.135	0.360	0.109	0.113	0.047	0.495	0.244	0.248	0.182	0.222	0.156	0.357	0.182
	Back side	0.198	0.519	0.249	0.210	0.073	0.717	0.447	0.408	0.271	0.459	0.322	0.657	0.271
	Right side	0.319	0.577	0.264	0.141	0.041	0.896	0.583	0.460	0.360	0.405	0.305	0.724	0.360
	Top side	0.291	0.422	0.373	0.071	0.074	0.713	0.664	0.362	0.365	0.444	0.447	0.735	0.365
N77	Front side	0.142	0.360	0.109	0.113	0.047	0.502	0.251	0.255	0.189	0.222	0.156	0.364	0.189
	Back side	0.236	0.519	0.249	0.210	0.073	0.755	0.485	0.446	0.309	0.459	0.322	0.695	0.309
	Right side	0.416	0.577	0.264	0.141	0.041	0.993	0.680	0.557	0.457	0.405	0.305	0.821	0.457
	Top side	0.074	0.422	0.373	0.071	0.074	0.496	0.447	0.145	0.148	0.444	0.447	0.518	0.148



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Test position		SARmax (W/kg)					Summed SAR							
		Main Ant13	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5								
LTE B42	Front side	0.143	0.360	0.109	0.113	0.047	0.503	0.252	0.256	0.190	0.222	0.156	0.365	0.190
	Back side	0.203	0.519	0.249	0.210	0.073	0.722	0.452	0.413	0.276	0.459	0.322	0.662	0.276
	Left side	0.273	0.000	0.083	0.000	0.000	0.273	0.356	0.273	0.273	0.083	0.083	0.356	0.273
	Top side	0.102	0.422	0.373	0.071	0.074	0.524	0.475	0.173	0.176	0.444	0.447	0.546	0.176
N77	Front side	0.210	0.360	0.109	0.113	0.047	0.570	0.319	0.323	0.257	0.222	0.156	0.432	0.257
	Back side	0.276	0.519	0.249	0.210	0.073	0.795	0.525	0.486	0.349	0.459	0.322	0.735	0.349
	Left side	0.365	0.000	0.083	0.000	0.000	0.365	0.448	0.365	0.365	0.083	0.083	0.448	0.365
	Top side	0.196	0.422	0.373	0.071	0.074	0.618	0.569	0.267	0.270	0.444	0.447	0.640	0.270

Test position		SARmax (W/kg)					Summed SAR							
		Main Ant21	WiFi 2.4G MIMO	WiFi 5G MIMO	BT Ant25	BT Ant22								
		1	2	3	4	5								
LTE B42	Front side	0.114	0.360	0.109	0.113	0.047	0.474	0.223	0.227	0.161	0.222	0.156	0.336	0.161
	Back side	0.132	0.519	0.249	0.210	0.073	0.651	0.381	0.342	0.205	0.459	0.322	0.591	0.205
	Left side	0.133	0.577	0.083	0.000	0.000	0.710	0.216	0.133	0.133	0.083	0.083	0.216	0.133
	Right side	0.047	0.000	0.264	0.141	0.041	0.047	0.311	0.188	0.088	0.405	0.305	0.452	0.088
	Top side	0.206	0.422	0.373	0.071	0.074	0.628	0.579	0.277	0.280	0.444	0.447	0.650	0.280
N77	Front side	0.072	0.360	0.109	0.113	0.047	0.432	0.181	0.185	0.119	0.222	0.156	0.294	0.119
	Back side	0.072	0.519	0.249	0.210	0.073	0.591	0.321	0.282	0.145	0.459	0.322	0.531	0.145
	Left side	0.080	0.577	0.083	0.000	0.000	0.657	0.163	0.080	0.080	0.083	0.083	0.163	0.080
	Right side	0.109	0.000	0.264	0.141	0.041	0.109	0.373	0.250	0.150	0.405	0.305	0.514	0.150
	Top side	0.144	0.422	0.373	0.071	0.074	0.566	0.517	0.215	0.218	0.444	0.447	0.588	0.218

Test position		SARmax (W/kg)			Summed SAR		
		Main Ant11	WiFi 5G MIMO	NFC			
		1	2	3			
N 26	Front side	0.000	0.341	0.000	0.341	0.000	0.341
	Back side	0.000	0.361	0.008	0.361	0.008	0.369
	Left side	1.856	0.171	0.000	2.027	1.856	2.027
	Right side	0.000	0.806	0.000	0.806	0.000	0.806
	Top side	0.000	1.335	0.000	1.335	0.000	1.335
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000

Test position		SARmax (W/kg)			Summed SAR		
		Main Ant14	WiFi 5G MIMO	NFC			
		1	3	3			
LTE B42	Front side	0.000	0.341	0.000	0.341	0.000	0.341
	Back side	0.000	0.361	0.008	0.361	0.008	0.369
	Left side	0.000	0.171	0.000	0.171	0.000	0.171
	Right side	0.000	0.806	0.000	0.806	0.000	0.806



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	Top side	0.993	1.335	0.000	2.328	0.993	2.328
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N66	Front side	0.000	0.341	0.000	0.341	0.000	0.341
	Back side	0.000	0.361	0.008	0.361	0.008	0.369
	Left side	0.000	0.171	0.000	0.171	0.000	0.171
	Right side	0.000	0.806	0.000	0.806	0.000	0.806
	Top side	2.354	1.335	0.000	3.689	2.354	3.689
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N7	Front side	0.000	0.341	0.000	0.341	0.000	0.341
	Back side	0.000	0.361	0.008	0.361	0.008	0.369
	Left side	0.000	0.171	0.000	0.171	0.000	0.171
	Right side	0.000	0.806	0.000	0.806	0.000	0.806
	Top side	2.026	1.335	0.000	3.361	2.026	3.361
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N41	Front side	0.000	0.341	0.000	0.341	0.000	0.341
	Back side	0.000	0.361	0.008	0.361	0.008	0.369
	Left side	0.000	0.171	0.000	0.171	0.000	0.171
	Right side	0.000	0.806	0.000	0.806	0.000	0.806
	Top side	1.935	1.335	0.000	3.270	1.935	3.270
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000
N7	Front side	0.000	0.341	0.000	0.341	0.000	0.341
	Back side	0.000	0.361	0.008	0.361	0.008	0.369
	Left side	0.000	0.171	0.000	0.171	0.000	0.171
	Right side	0.000	0.806	0.000	0.806	0.000	0.806
	Top side	1.745	1.335	0.000	3.080	1.745	3.080
	Bottom side	0.000	0.000	0.000	0.000	0.000	0.000



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9 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-022	NCR	NCR
☒	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-020	NCR	NCR
☒	DAE	SPEAG	DAE4	SZ-WSR-M-081	2024/08/15	2025/08/16
☒	DAE	SPEAG	DAE4	SZ-WSR-M-029	2024/01/03	2025/01/02
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-082	2024/09/19	2025/09/18
☒	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-069	2024/07/29	2025/07/28
☒	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05
☒	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16
☒	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
☒	Validation Kits	SPEAG	D2600V2	SZ-WSR-M-040	2022/06/14	2025/06/13
☒	Validation Kits	SPEAG	D3500V2	SZ-WSR-M-041	2022/09/19	2025/09/18
☒	Validation Kits	SPEAG	D3700V2	SZ-WSR-M-042	2022/09/15	2025/09/14
☒	Validation Kits	SPEAG	D3900V2	SZ-WSR-M-043	2022/09/16	2025/09/15
☒	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
☒	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25
☒	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2024/01/30	2025/01/29
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23
☒	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2024/08/19	2025/08/18
☒	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
☒	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2024/01/30	2025/01/29
☒	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
☒	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
☒	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2024/01/30	2025/01/29
☒	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2024/01/30	2025/01/29
☒	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2024/01/30	2025/01/29



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☒	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
☒	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
☒	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27
☒	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27

Note: All the equipment 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

--- End of report ---



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