

### 8.2.3.5 2.4 GHz WiFi SAR Procedures

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

- **802.11b DSSS SAR Test Requirements**

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

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  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  $\leq 1.2$  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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### 8.2.4 LTE Test Configuration

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

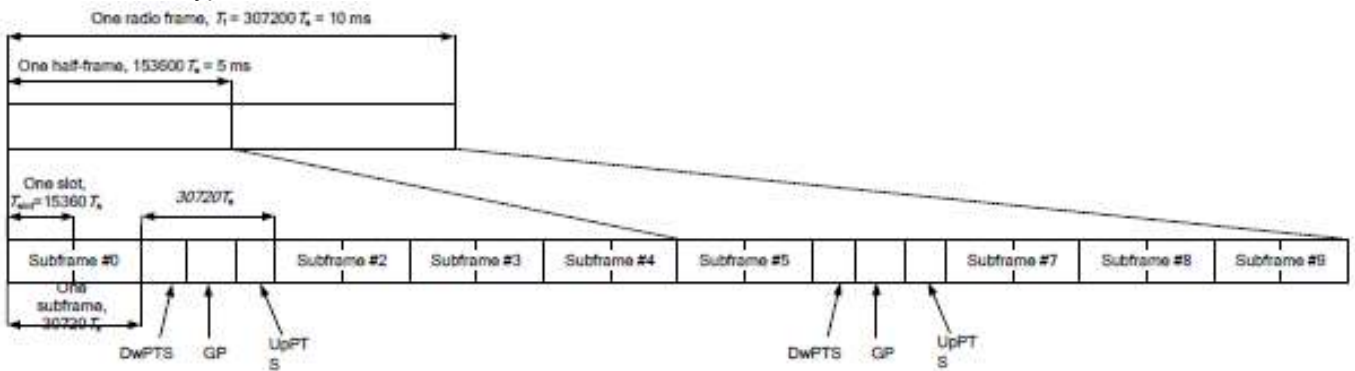
#### TDD LTE test consideration

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

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

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

Frame structure type 2:



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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			-		

Uplink-downlink configurations.

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

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

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



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**A) Spectrum Plots for RB Configurations**

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

**B) MPR**

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

Modulation	Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3

**C) A-MPR**

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

**D) Largest channel bandwidth standalone SAR test requirements**

1) QPSK with 1 RB allocation

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

2) QPSK with 50% RB allocation

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

3) QPSK with 100% RB allocation

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

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

**E) Other channel bandwidth standalone SAR test requirements**

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



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### 8.2.5 NR Band Test Configuration

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

Band/Antenna		n2		n5	n25	n41	n66		n71	n77
		Ant2	Ant3	Ant0	Ant3	Ant3	Ant2	Ant3	Ant0	Ant4
LTE Band 2	Ant2		✓		✓	✓		✓		
	Ant3			✓					✓	
LTE Band 5	Ant0		✓		✓			✓		✓
LTE Band 12	Ant0		✓		✓			✓		✓
LTE Band 14	Ant0		✓		✓			✓		✓
LTE Band 25	Ant2		✓		✓	✓		✓		✓
	Ant3			✓					✓	
LTE Band 30	Ant2									✓
	Ant3	✓		✓			✓		✓	
LTE Band 41	Ant3	✓		✓			✓		✓	
LTE Band 66	Ant2		✓		✓	✓		✓		✓
	Ant3			✓					✓	



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

Band		N2	N5	N25	N26	N30	N41	N48	N66	N70	N71	n77 PC3	n77 PC3
Modulation	DFT-s-OFDM	PI/2 BPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	CP-OFDM	256QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		QPSK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		16QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		64QAM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Duty Cycle		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	50%

Band	SCS	Bandwidth												
		5Mh Z	10Mh Z	15Mh Z	20Mh Z	25Mh Z	30Mh Z	40Mh Z	50Mh Z	60Mh Z	70Mh Z	80Mh Z	90Mh Z	100Mh Z
N2	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N5	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N25	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N26	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N30	15KH Z	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N41	30KH Z	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes
N48	30KH Z	N/A	Yes	Yes	Yes	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
N66	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A
N70	15KH Z	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N71	15KH Z	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n77 PC3	30KH Z	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes
n77 PC2	30KH Z	N/A	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	N/A	Yes	Yes	Yes



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3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
- a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 3GPP 38.101 maximum power reduction for power class 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
  - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, for PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the PI/2 BPSK/16QAM/64QMA/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
  - c. SAR testing start with the largest SCS and largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
  - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
  - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
  - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK/16QAM/64QAM/256QAM SAR testing are not required.
  - g. Smaller SCS/bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device



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**4. MPR**

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

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	$\leq 1$		0
	16 QAM	$\leq 2$		$\leq 1$
	64 QAM		$\leq 2.5$	
CP-OFDM	256 QAM		$\leq 4.5$	
	QPSK	$\leq 3$		$\leq 1.5$
	16 QAM	$\leq 3$		$\leq 2$
	64 QAM		$\leq 3.5$	
	256 QAM		$\leq 6.5$	

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 n77. 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 n77 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 n77.

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\_2A\_n5 (UL 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 SAR, as the existing SAR test system cannot test the multiple different frequency bands simultaneous Transmission SAR at the same time, we suggest that the conservative “max + max” multi-Tx and SAR scaling method can be used to evaluate the inter-band Uplink EN-DC SAR from standalone SAR test results of each LTE and NR EN-DC component band and the conservative “max + max” multi-Tx method to combine the scaled SAR value from each EN-DC component band as the inter-band Uplink EN-DC SAR. All Simultaneous Transmission Scenarios will be evaluated independently in the final SAR report.

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

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



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## 9 Test Result

### 9.1 Measurement of RF conducted Power

The detailed conducted power table can refer to Appendix E.

Note:

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

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

- 2) . The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum burst-averaged power based on time slots. The calculated method is shown as below:  
 Frame-averaged power = 10 x log (Burst-averaged power mW x Slot used / 8
- 3) . When the maximum output power variation across the required test channels is > ½ dB, instead of the middle channel, the highest output power channel must be used
- 4) . According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
- 5) . In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs.
- 6) . Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05.
- 7) . Conducted power measurement results of downlink LTE carrier aggregation are provided to quantify downlink only carrier aggregation SAR test exclusion per KDB 941225 D05A. Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, therefore SAR evaluation with downlink carrier aggregation can be excluded.  
 The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.101 V15.4.0. The detailed conducted power measurement results of downlink LTE CA are provided in the SAR report per 3GPP TS 36.521-1 V14.4.0. According to KDB 941225 D05A, the downlink only carrier aggregation conditions for this device can be excluded from SAR testing.  
 The conducted power measurement results of downlink LTE CA Conducted Power are as Appendix E conducted RF output power, so the downlink only carrier aggregation conditions for this device can be excluded from SAR testing
- 8) . For conducted power of WIFI must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band. For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured. Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.



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- 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=76.80%



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## 9.2 Measurement of SAR Data

### Note:

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

### WiFi 2.4G:

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



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9.2.1 SAR Result of GSM850

GSM850 SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GPRS 4TS	190/836.6	1:2.075	0.238	-0.19	28.99	30.00	1.262	0.300	22.4
Left tilted	GPRS 4TS	190/836.6	1:2.075	0.196	-0.07	28.99	30.00	1.262	0.247	22.4
Right cheek	GPRS 4TS	190/836.6	1:2.075	0.345	-0.05	28.99	30.00	1.262	<b>0.435</b>	22.4
Right tilted	GPRS 4TS	190/836.6	1:2.075	0.229	0.02	28.99	30.00	1.262	0.289	22.4
Body worn Test data(Separate 15mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.267	0.16	28.99	30.00	1.262	0.337	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.397	-0.08	28.99	30.00	1.262	<b>0.501</b>	22.4
Hotspot Test data(Separate 10mm)										
Front side	GPRS 4TS	190/836.6	1:2.075	0.428	-0.12	28.99	30.00	1.262	0.540	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.640	0.08	28.99	30.00	1.262	0.808	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.632	0.03	28.99	30.00	1.262	0.797	22.4
Back side	GPRS 4TS	190/836.6	1:2.075	0.638	0.01	28.99	30.00	1.262	<b>0.805</b>	22.4
Left side	GPRS 4TS	190/836.6	1:2.075	0.000	0.00	28.99	30.00	1.262	0.000	22.4

Table 11: SAR of GSM850 for Head and Body.

9.2.2 SAR Result of GSM1900

GSM1900 SAR Test Record										
Ant 3 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	GPRS 2TS	661/1880	1:4.15	0.305	0.18	22.74	23.50	1.191	0.363	21.9
Left tilted	GPRS 2TS	661/1880	1:4.15	0.373	-0.13	22.74	23.50	1.191	0.444	21.9
Right cheek	GPRS 2TS	661/1880	1:4.15	0.595	0.08	22.74	23.50	1.191	0.709	21.9
Right tilted	GPRS 2TS	661/1880	1:4.15	0.749	0.11	22.74	23.50	1.191	<b>0.892</b>	21.9
Right tilted	GPRS 2TS	512/1850.2	1:4.15	0.716	0.07	22.62	23.50	1.225	0.877	21.9
Right tilted	GPRS 2TS	810/1909.8	1:4.15	0.725	-0.05	22.65	23.50	1.216	0.882	21.9
Body worn Test data(Separate 15mm)										
Front side	GPRS 2TS	661/1880	1:4.15	0.384	0.02	29.41	30.00	1.146	0.440	21.9
Back side	GPRS 2TS	661/1880	1:4.15	0.612	0.10	29.41	30.00	1.146	<b>0.701</b>	21.9
Hotspot Test data(Separate 10mm)										
Front side	GPRS 2TS	661/1880	1:4.15	0.403	0.08	27.15	28.00	1.216	0.490	21.9
Back side	GPRS 2TS	661/1880	1:4.15	0.517	0.02	27.15	28.00	1.216	0.629	21.9
Left side	GPRS 2TS	661/1880	1:4.15	0.134	-0.05	27.15	28.00	1.216	0.163	21.9
Right side	GPRS 2TS	661/1880	1:4.15	0.048	-0.08	27.15	28.00	1.216	0.058	21.9
Top side	GPRS 2TS	661/1880	1:4.15	0.659	0.11	27.15	28.00	1.216	0.801	21.9
Top side	GPRS 2TS	512/1850.2	1:4.15	0.628	0.04	27.09	28.00	1.233	0.774	21.9
Top side	GPRS 2TS	810/1909.8	1:4.15	0.759	-0.08	27.11	28.00	1.227	<b>0.932</b>	21.9
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data(Separate 0mm)										
Back side	GPRS 2TS	661/1880	1:4.15	1.860	0.06	29.41	30.00	1.146	2.131	21.9
Back side	GPRS 2TS	512/1850.2	1:4.15	1.660	0.13	29.37	30.00	1.156	1.919	21.9
Back side	GPRS 2TS	810/1909.8	1:4.15	1.740	0.04	29.38	30.00	1.153	2.007	21.9



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Top side	GPRS 2TS	661/1880	1:4.15	2.650	-0.06	29.41	30.00	1.146	<b>3.036</b>	21.9
Top side	GPRS 2TS	512/1850.2	1:4.15	2.580	-0.17	29.37	30.00	1.156	2.983	21.9
Top side	GPRS 2TS	810/1909.8	1:4.15	2.630	-0.15	29.38	30.00	1.153	3.034	21.9
Top side - Repeat	GPRS 2TS	661/1880	1:4.15	2.590	-0.01	29.41	30.00	1.146	2.967	21.9

Table 12: SAR of GSM1900 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (10g)		SAR (10g)	SAR (10g)
Top side	661/1880	2.65	2.59	1.023166023	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 2.0$  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  $\geq 3.63$  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  $\geq 3.75$  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  $< 2.0$  W/kg

### 9.2.3 SAR Result of WCDMA Band II

WCDMA Band II SAR Test Record										
Ant 3 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	9400/1880	1:1	0.330	0.07	15.11	16.00	1.227	0.405	21.9
Left tilted	RMC	9400/1880	1:1	0.395	0.05	15.11	16.00	1.227	0.485	21.9
Right cheek	RMC	9400/1880	1:1	0.558	-0.05	15.11	16.00	1.227	0.685	21.9
Right tilted	RMC	9400/1880	1:1	0.645	0.06	15.11	16.00	1.227	<b>0.792</b>	21.9
Body worn Test data(Separate 15mm)										
Front side	RMC	9400/1880	1:1	0.621	0.02	24.35	25.00	1.161	0.721	21.9
Back side	RMC	9400/1880	1:1	0.893	0.16	24.35	25.00	1.161	<b>1.037</b>	21.9
Back side	RMC	9262/1852.4	1:1	0.855	0.02	24.28	25.00	1.180	1.009	21.9
Back side	RMC	9538/1907.6	1:1	0.843	-0.01	24.14	25.00	1.219	1.028	21.9
Back side -Repeat	RMC	9400/1880	1:1	0.886	0.04	24.35	25.00	1.161	1.029	21.9
Hotspot Test data(Separate 10mm)										
Front side	RMC	9400/1880	1:1	0.341	-0.02	19.59	20.50	1.233	0.420	21.9
Back side	RMC	9400/1880	1:1	0.466	-0.10	19.59	20.50	1.233	0.575	21.9
Left side	RMC	9400/1880	1:1	0.113	0.02	19.59	20.50	1.233	0.139	21.9
Right side	RMC	9400/1880	1:1	0.029	-0.06	19.59	20.50	1.233	0.036	21.9
Top side	RMC	9400/1880	1:1	0.651	0.10	19.59	20.50	1.233	0.803	21.9
Top side	RMC	9262/1852.4	1:1	0.443	0.02	19.53	20.50	1.250	0.554	21.9
Top side	RMC	9538/1907.6	1:1	0.644	-0.17	19.51	20.50	1.256	<b>0.809</b>	21.9
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific (Sensro on) 10g SAR Test data(Separate 0mm)										
Front side	RMC	9400/1880	1:1	1.700	0.01	21.69	22.50	1.205	2.049	21.9
Front side	RMC	9262/1852.4	1:1	1.610	0.06	21.64	22.50	1.219	1.963	21.9
Front side	RMC	9538/1907.6	1:1	1.670	0.10	21.60	22.50	1.230	2.055	21.9
Back side	RMC	9400/1880	1:1	1.420	0.09	21.69	22.50	1.205	1.711	21.9
Top side	RMC	9400/1880	1:1	1.750	-0.09	21.69	22.50	1.205	2.109	21.9
Top side	RMC	9262/1852.4	1:1	1.580	0.01	21.64	22.50	1.219	1.926	21.9
Top side	RMC	9538/1907.6	1:1	1.820	-0.06	21.60	22.50	1.230	<b>2.239</b>	21.9
Product specific (Sensro off) 10g SAR Test data										
Front side-5mm	RMC	9538/1907.6	1:1	1.350	0.08	24.14	25.00	1.219	1.646	21.9



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Back side-18mm	RMC	9400/1880	1:1	0.369	0.02	24.35	25.00	1.161	0.429	21.9
Top side-17mm	RMC	9538/1907.6	1:1	0.575	-0.10	24.14	25.00	1.219	0.701	21.9

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

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	9400/1880	0.893	0.886	1.007900677	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  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

### 9.2.4 SAR Result of WCDMA Band V

WCDMA Band V SAR Test Record										
Ant 0 Test Record										
Test position	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data										
Left cheek	RMC	4182/836.4	1:1	0.213	0.11	23.91	24.50	1.146	0.244	22.4
Left tilted	RMC	4182/836.4	1:1	0.160	0.18	23.91	24.50	1.146	0.183	22.4
Right cheek	RMC	4182/836.4	1:1	0.285	-0.01	23.91	24.50	1.146	<b>0.326</b>	22.4
Right tilted	RMC	4182/836.4	1:1	0.169	0.05	23.91	24.50	1.146	0.194	22.4
Body worn Test data(Separate 15mm)										
Front side	RMC	4182/836.4	1:1	0.232	-0.10	23.91	24.50	1.146	0.266	22.4
Back side	RMC	4182/836.4	1:1	0.296	0.11	23.91	24.50	1.146	<b>0.339</b>	22.4
Hotspot Test data(Separate 10mm)										
Front side	RMC	4182/836.4	1:1	0.278	0.12	23.91	24.50	1.146	0.318	22.4
Back side	RMC	4182/836.4	1:1	0.417	0.09	23.91	24.50	1.146	<b>0.478</b>	22.4
Left side	RMC	4182/836.4	1:1	0.000	0.00	23.91	24.50	1.146	0.000	22.4
Right side	RMC	4182/836.4	1:1	0.051	-0.10	23.91	24.50	1.146	0.058	22.4
Bottom side	RMC	4182/836.4	1:1	0.291	-0.03	23.91	24.50	1.146	0.333	22.4

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



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9.2.5 SAR Result of LTE Band 2

LTE Band 2 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test Data(1RB)											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.316	0.07	16.25	17.00	1.189	0.376	22.3
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.361	0.01	16.25	17.00	1.189	0.429	22.3
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.563	0.07	16.25	17.00	1.189	0.669	22.3
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.635	0.07	16.25	17.00	1.189	0.755	22.3
Head Test (Receiver on) Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.254	0.10	16.20	17.00	1.202	0.305	22.3
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.283	-0.10	16.20	17.00	1.202	0.340	22.3
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.451	0.01	16.20	17.00	1.202	0.542	22.3
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.507	0.05	16.20	17.00	1.202	0.610	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.524	0.01	24.37	25.00	1.156	0.606	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.764	0.01	24.37	25.00	1.156	<b>0.883</b>	22.3
Back side	20	QPSK 1_0	18700/1860	1:1	0.689	0.03	24.05	25.00	1.245	0.857	22.3
Back side	20	QPSK 1_0	19100/1900	1:1	0.716	-0.02	24.23	25.00	1.194	0.855	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.399	-0.11	23.33	24.00	1.167	0.466	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.594	0.03	23.33	24.00	1.167	0.693	22.3
Body worn Test data(Separate 15mm 100%RB)											
Back side	20	QPSK 100_0	18900/1880	1:1	0.572	0.04	22.18	23.00	1.208	0.691	22.3
Hotspot on Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.411	-0.10	20.62	21.50	1.225	0.503	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.561	0.10	20.62	21.50	1.225	0.687	22.3
Left side	20	QPSK 1_0	18900/1880	1:1	0.120	0.08	20.62	21.50	1.225	0.147	22.3
Right side	20	QPSK 1_0	18900/1880	1:1	0.048	0.10	20.62	21.50	1.225	0.059	22.3
Top side	20	QPSK 1_0	18900/1880	1:1	0.800	-0.04	20.62	21.50	1.225	0.980	22.3
Top side	20	QPSK 1_0	18700/1860	1:1	0.602	-0.11	20.54	21.50	1.247	0.751	22.3
Top side	20	QPSK 1_0	19100/1900	1:1	0.621	0.07	20.59	21.50	1.233	0.766	22.3
Hotspot on Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.315	-0.09	20.54	21.50	1.247	0.393	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.449	0.09	20.54	21.50	1.247	0.560	22.3
Left side	20	QPSK 50_0	18900/1880	1:1	0.089	-0.02	20.54	21.50	1.247	0.111	22.3
Right side	20	QPSK 50_0	18900/1880	1:1	0.034	0.08	20.54	21.50	1.247	0.042	22.3
Top side	20	QPSK 50_0	18900/1880	1:1	0.639	-0.01	20.54	21.50	1.247	0.797	22.3
Hotspot on Test data(Separate 10mm 100%RB)											
Top side	20	QPSK 100_0	18900/1880	1:1	0.609		20.50	21.50	1.259	0.767	22.3
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific (Sensro on) 10g SAR Test data(Separate 0mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	1.860	-0.03	22.63	23.50	1.222	2.273	22.3
Front side	20	QPSK 1_0	18700/1860	1:1	1.880	-0.02	22.54	23.50	1.247	2.345	22.3
Front side	20	QPSK 1_0	19100/1900	1:1	1.810	-0.10	22.57	23.50	1.239	2.242	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	1.490	-0.03	22.63	23.50	1.222	1.820	22.3
Top side	20	QPSK 1_0	18900/1880	1:1	1.890	-0.03	22.63	23.50	1.222	2.309	22.3
Top side	20	QPSK 1_0	18700/1860	1:1	2.040	0.01	22.54	23.50	1.247	2.545	22.3
Top side	20	QPSK 1_0	19100/1900	1:1	2.180	-0.01	22.57	23.50	1.239	<b>2.701</b>	22.3



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Top side - Repeat SAR	20	QPSK 1_0	19100/1900	1:1	2.060	0.05	22.57	23.50	1.239	2.552	22.3
Product specific (Sensro on) 10g SAR Test data (Separate 0mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	1.630	0.01	22.59	23.50	1.233	2.010	22.3
Front side	20	QPSK 50_0	18700/1860	1:1	1.460	0.10	22.56	23.50	1.242	1.813	22.3
Front side	20	QPSK 50_0	19100/1900	1:1	1.560	-0.02	22.52	23.50	1.253	1.955	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	1.440	0.11	22.59	23.50	1.233	1.776	22.3
Top side	20	QPSK 50_0	18900/1880	1:1	1.810	0.00	22.59	23.50	1.233	2.232	22.3
Top side	20	QPSK 50_0	18700/1860	1:1	1.630	0.09	22.56	23.50	1.242	2.024	22.3
Top side	20	QPSK 50_0	19100/1900	1:1	1.800	0.02	22.52	23.50	1.253	2.256	22.3
Product specific (Sensro on) 10g SAR Test data (Separate 0mm 100%RB)											
Front side	20	QPSK 100_0	18900/1880	1:1	1.340	-0.10	22.53	23.50	1.250	1.675	22.3
Top side	20	QPSK 100_0	18900/1880	1:1	1.750	0.03	22.53	23.50	1.250	2.188	22.3
Product specific (Sensro off) 10g SAR Test data											
Front side-5mm	20	QPSK 1_0	18700/1860	1:1	1.080	0.01	24.05	25.00	1.245	1.344	22.3
Back side-18mm	20	QPSK 1_0	18900/1880	1:1	0.274	0.02	24.37	25.00	1.156	0.317	22.3
Top side-17mm	20	QPSK 1_0	19100/1900	1:1	0.422	0.01	24.23	25.00	1.194	0.504	22.3
Ant 2 Test Record for ENDC											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test Data(1RB)											
Left cheek	20	QPSK 1_0	18900/1880	1:1	0.481	0.01	22.11	23.00	1.227	0.590	22.3
Left tilted	20	QPSK 1_0	18900/1880	1:1	0.219	0.03	22.11	23.00	1.227	0.269	22.3
Right cheek	20	QPSK 1_0	18900/1880	1:1	0.807	0.17	22.11	23.00	1.227	<b>0.991</b>	22.3
Right cheek	20	QPSK 1_0	18700/1860	1:1	0.640	0.08	22.06	23.00	1.242	0.795	22.3
Right cheek	20	QPSK 1_0	19100/1900	1:1	0.772	0.04	22.03	23.00	1.250	0.965	22.3
Right tilted	20	QPSK 1_0	18900/1880	1:1	0.223	0.04	22.11	23.00	1.227	0.274	22.3
Head Test (Receiver on) Data(50%RB)											
Left cheek	20	QPSK 50_0	18900/1880	1:1	0.339	-0.05	22.05	23.00	1.245	0.422	22.3
Left tilted	20	QPSK 50_0	18900/1880	1:1	0.163	0.04	22.05	23.00	1.245	0.203	22.3
Right cheek	20	QPSK 50_0	18900/1880	1:1	0.651	0.00	22.05	23.00	1.245	0.810	22.3
Right cheek	20	QPSK 50_0	18700/1860	1:1	0.541	0.03	22.01	23.00	1.256	0.680	22.3
Right cheek	20	QPSK 50_0	19100/1900	1:1	0.636	-0.04	22.03	23.00	1.250	0.795	22.3
Right tilted	20	QPSK 50_0	18900/1880	1:1	0.172	-0.04	22.05	23.00	1.245	0.214	22.3
Head Test (Receiver on) Data(100%RB)											
Right cheek	20	QPSK 100_0	18900/1880	1:1	0.638	0.02	22.02	23.00	1.253	0.800	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.214	0.01	23.90	25.00	1.288	0.276	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.475	-0.02	23.90	25.00	1.288	0.612	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.162	0.03	22.69	24.00	1.352	0.219	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.361	-0.11	22.69	24.00	1.352	0.488	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	18900/1880	1:1	0.360	0.01	23.90	25.00	1.288	0.464	22.3
Back side	20	QPSK 1_0	18900/1880	1:1	0.858	-0.17	23.90	25.00	1.288	<b>1.105</b>	22.3
Back side	20	QPSK 1_0	18700/1860	1:1	0.801	-0.16	23.90	25.00	1.288	1.032	22.3
Back side	20	QPSK 1_0	19100/1900	1:1	0.832	0.09	23.90	25.00	1.288	1.072	22.3
Back side - Repeat	20	QPSK 1_0	18900/1880	1:1	0.841	-0.02	23.90	25.00	1.288	1.083	22.3
Left side	20	QPSK 1_0	18900/1880	1:1	0.698	0.17	23.90	25.00	1.288	0.899	22.3
Left side	20	QPSK 1_0	18700/1860	1:1	0.652	0.06	23.90	25.00	1.288	0.840	22.3
Left side	20	QPSK 1_0	19100/1900	1:1	0.679	-0.11	23.90	25.00	1.288	0.875	22.3
Top side	20	QPSK 1_0	18900/1880	1:1	0.253	0.18	23.90	25.00	1.288	0.326	22.3
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	18900/1880	1:1	0.269	-0.12	22.69	24.00	1.352	0.364	22.3
Back side	20	QPSK 50_0	18900/1880	1:1	0.692	-0.06	22.69	24.00	1.352	0.936	22.3



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Back side	20	QPSK 50_0	18700/1860	1:1	0.677	0.05	22.69	24.00	1.352	0.915	22.3
Back side	20	QPSK 50_0	19100/1900	1:1	0.681	0.04	22.69	24.00	1.352	0.921	22.3
Left side	20	QPSK 50_0	18900/1880	1:1	0.491	-0.11	22.69	24.00	1.352	0.664	22.3
Top side	20	QPSK 50_0	18900/1880	1:1	0.176	0.05	22.69	24.00	1.352	0.238	22.3
Hotspot Test data(Separate 10mm 100%RB)											
Back side	20	QPSK 1_0	18900/1880	1:1	0.709	0.04	23.90	24.00	1.023	0.726	22.3

Table 15: SAR of LTE Band 2 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	18900/1880	0.858	0.841	1.020214031	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 0.80$  W/kg, the measurement was repeated once.  
 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was  $> 1.20$  or when the original or repeated measurement was  $\geq 1.45$  W/kg (~ 10% from the 1-g SAR limit).  
 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was  $\geq 1.5$  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

Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (10g)		SAR (10g)	SAR (10g)
Top side	19100/1900	2.18	2.06	1.058252427	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 2.0$  W/kg, the measurement was repeated once.  
 2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was  $> 1.20$  or when the original or repeated measurement was  $\geq 3.63$  W/kg (~ 10% from the 1-g SAR limit).  
 3) A third repeated measurement was preformed only if the original, first or second repeated measurement was  $\geq 3.75$  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  $< 2.0$  W/kg



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9.2.6 SAR Result of LTE Band 12

LTE Band 12 SAR Test Record												
Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data(1RB)												
Left cheek	10	QPSK 1_0	23095/707.5	1:1	0.107	-0.18	24.27	25.00	1.183	0.127	22.1	
Left tilted	10	QPSK 1_0	23095/707.5	1:1	0.064	-0.02	24.27	25.00	1.183	0.076	22.1	
Right cheek	10	QPSK 1_0	23095/707.5	1:1	0.219	0.08	24.27	25.00	1.183	<b>0.259</b>	22.1	
Right tilted	10	QPSK 1_0	23095/707.5	1:1	0.075	-0.09	24.27	25.00	1.183	0.089	22.1	
Head Test Data(50%RB)												
Left cheek	10	QPSK 25_0	23095/707.5	1:1	0.086	0.14	23.33	24.00	1.167	0.100	22.1	
Left tilted	10	QPSK 25_0	23095/707.5	1:1	0.054	0.04	23.33	24.00	1.167	0.063	22.1	
Right cheek	10	QPSK 25_0	23095/707.5	1:1	0.104	-0.08	23.33	24.00	1.167	0.121	22.1	
Right tilted	10	QPSK 25_0	23095/707.5	1:1	0.112	-0.18	23.33	24.00	1.167	0.131	22.1	
Body worn Test data(Separate 15mm 1RB)												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.246	-0.15	24.27	25.00	1.183	0.291	22.1	
Back side	10	QPSK 1_0	23095/707.5	1:1	0.341	-0.02	24.27	25.00	1.183	<b>0.403</b>	22.1	
Body worn Test data(Separate 15mm 50%RB)												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.201	-0.11	23.33	24.00	1.167	0.235	22.1	
Back side	10	QPSK 25_0	23095/707.5	1:1	0.298	-0.02	23.33	24.00	1.167	0.348	22.1	
Hotspot Test data(Separate 10mm 1RB)												
Front side	10	QPSK 1_0	23095/707.5	1:1	0.244	0.03	24.27	25.00	1.183	0.289	22.1	
Back side	10	QPSK 1_0	23095/707.5	1:1	0.373	-0.13	24.27	25.00	1.183	<b>0.441</b>	22.1	
Left side	10	QPSK 1_0	23095/707.5	1:1	0.000	0.00	24.27	25.00	1.183	0.000	22.1	
Right side	10	QPSK 1_0	23095/707.5	1:1	0.000	0.00	24.27	25.00	1.183	0.000	22.1	
Bottom side	10	QPSK 1_0	23095/707.5	1:1	0.262	0.12	24.27	25.00	1.183	0.310	22.1	
Hotspot Test data(Separate 10mm 50%RB)												
Front side	10	QPSK 25_0	23095/707.5	1:1	0.197	-0.17	23.33	24.00	1.167	0.230	22.1	
Back side	10	QPSK 25_0	23095/707.5	1:1	0.300	-0.08	23.33	24.00	1.167	0.350	22.1	
Left side	10	QPSK 25_0	23095/707.5	1:1	0.000	0.00	23.33	24.00	1.167	0.000	22.1	
Right side	10	QPSK 25_0	23095/707.5	1:1	0.000	0.00	23.33	24.00	1.167	0.000	22.1	
Bottom side	10	QPSK 25_0	23095/707.5	1:1	0.202	-0.09	23.33	24.00	1.167	0.236	22.1	

Table 16: SAR of LTE Band 12 for Head and Body.



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9.2.7 SAR Result of LTE Band 14

LTE Band 14 SAR Test Record											
Ant 0 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	10	QPSK 1_0	23330/793	1:1	0.116	0.19	24.36	25.00	1.159	0.134	22.1
Left tilted	10	QPSK 1_0	23330/793	1:1	0.070	-0.09	24.36	25.00	1.159	0.081	22.1
Right cheek	10	QPSK 1_0	23330/793	1:1	0.238	0.08	24.36	25.00	1.159	<b>0.276</b>	22.1
Right tilted	10	QPSK 1_0	23330/793	1:1	0.085	0.03	24.36	25.00	1.159	0.098	22.1
Head Test Data(50%RB)											
Left cheek	10	QPSK 25_0	23330/793	1:1	0.095	-0.13	23.40	24.00	1.148	0.109	22.1
Left tilted	10	QPSK 25_0	23330/793	1:1	0.057	-0.04	23.40	24.00	1.148	0.065	22.1
Right cheek	10	QPSK 25_0	23330/793	1:1	0.134	-0.11	23.40	24.00	1.148	0.154	22.1
Right tilted	10	QPSK 25_0	23330/793	1:1	0.107	-0.02	23.40	24.00	1.148	0.123	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	23330/793	1:1	0.231	0.05	24.36	25.00	1.159	0.268	22.1
Back side	10	QPSK 1_0	23330/793	1:1	0.308	0.06	24.36	25.00	1.159	<b>0.357</b>	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	23330/793	1:1	0.181	0.04	23.40	24.00	1.148	0.208	22.1
Back side	10	QPSK 25_0	23330/793	1:1	0.256	-0.09	23.40	24.00	1.148	0.294	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	23330/793	1:1	0.244	-0.06	24.36	25.00	1.159	0.283	22.1
Back side	10	QPSK 1_0	23330/793	1:1	0.366	0.07	24.36	25.00	1.159	<b>0.424</b>	22.1
Left side	10	QPSK 1_0	23330/793	1:1	0.000	0.00	24.36	25.00	1.159	0.000	22.1
Right side	10	QPSK 1_0	23330/793	1:1	0.000	0.00	24.36	25.00	1.159	0.000	22.1
Bottom side	10	QPSK 1_0	23330/793	1:1	0.108	0.15	24.36	25.00	1.159	0.125	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	23330/793	1:1	0.202	0.14	23.40	24.00	1.148	0.232	22.1
Back side	10	QPSK 25_0	23330/793	1:1	0.291	-0.18	23.40	24.00	1.148	0.334	22.1
Left side	10	QPSK 25_0	23330/793	1:1	0.000	0.00	23.40	24.00	1.148	0.000	22.1
Right side	10	QPSK 25_0	23330/793	1:1	0.000	0.00	23.40	24.00	1.148	0.000	22.1
Bottom side	10	QPSK 25_0	23330/793	1:1	0.150	-0.08	23.40	24.00	1.148	0.172	22.1

Table 17: SAR of LTE Band 14 for Head and Body.



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9.2.8 SAR Result of LTE Band 26

LTE Band 26 SAR Test Record												
Ant 0 Test Record												
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head Test Data(1RB)												
Left cheek	15	QPSK 1_0	26865/831.5	1:1	0.207	-0.12	23.96	24.50	1.132	0.234	22.3	
Left tilted	15	QPSK 1_0	26865/831.5	1:1	0.135	0.08	23.96	24.50	1.132	0.153	22.3	
Right cheek	15	QPSK 1_0	26865/831.5	1:1	0.259	0.05	23.96	24.50	1.132	<b>0.293</b>	22.3	
Right tilted	15	QPSK 1_0	26865/831.5	1:1	0.154	0.18	23.96	24.50	1.132	0.174	22.3	
Head Test Data(50%RB)												
Left cheek	15	QPSK 36_0	26865/831.5	1:1	0.166	0.14	22.92	23.50	1.143	0.190	22.3	
Left tilted	15	QPSK 36_0	26865/831.5	1:1	0.127	0.16	22.92	23.50	1.143	0.145	22.3	
Right cheek	15	QPSK 36_0	26865/831.5	1:1	0.236	0.19	22.92	23.50	1.143	0.270	22.3	
Right tilted	15	QPSK 36_0	26865/831.5	1:1	0.148	-0.06	22.92	23.50	1.143	0.169	22.3	
Body worn Test data(Separate 15mm 1RB)												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.268	0.04	23.96	24.50	1.132	0.303	22.3	
Back side	15	QPSK 1_0	26865/831.5	1:1	0.346	0.07	23.96	24.50	1.132	<b>0.392</b>	22.3	
Body worn Test data(Separate 15mm 50%RB)												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.220	0.10	22.92	23.50	1.143	0.251	22.3	
Back side	15	QPSK 36_0	26865/831.5	1:1	0.293	-0.19	22.92	23.50	1.143	0.335	22.3	
Hotspot Test data(Separate 10mm 1RB)												
Front side	15	QPSK 1_0	26865/831.5	1:1	0.272	0.16	23.96	24.50	1.132	0.308	22.3	
Back side	15	QPSK 1_0	26865/831.5	1:1	0.434	0.12	23.96	24.50	1.132	<b>0.491</b>	22.3	
Left side	15	QPSK 1_0	26865/831.5	1:1	0.000	0.00	23.96	24.50	1.132	0.000	22.3	
Right side	15	QPSK 1_0	26865/831.5	1:1	0.000	0.00	23.96	24.50	1.132	0.000	22.3	
Bottom side	15	QPSK 1_0	26865/831.5	1:1	0.292	-0.09	23.96	24.50	1.132	0.331	22.3	
Hotspot Test data(Separate 10mm 50%RB)												
Front side	15	QPSK 36_0	26865/831.5	1:1	0.230	0.10	22.92	23.50	1.143	0.263	22.3	
Back side	15	QPSK 36_0	26865/831.5	1:1	0.364	-0.10	22.92	23.50	1.143	0.416	22.3	
Left side	15	QPSK 36_0	26865/831.5	1:1	0.000	0.00	22.92	23.50	1.143	0.000	22.3	
Right side	15	QPSK 36_0	26865/831.5	1:1	0.000	0.00	22.92	23.50	1.143	0.000	22.3	
Bottom side	15	QPSK 36_0	26865/831.5	1:1	0.210	0.07	22.92	23.50	1.143	0.240	22.3	

Table 18: SAR of LTE Band 26 for Head and Body.



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9.2.9 SAR Result of LTE Band 30

LTE Band 30 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test Data(1RB)											
Left cheek	10	QPSK 1_0	27710/2310	1:1	0.672	0.05	20.22	21.00	1.197	0.804	22.4
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.812	-0.17	20.22	21.00	1.197	0.972	22.4
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.843	0.14	20.22	21.00	1.197	1.009	22.4
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.936	-0.11	20.22	21.00	1.197	1.120	22.4
Head Test (Receiver on) Data(50%RB)											
Left cheek	10	QPSK 25_0	27710/2310	1:1	0.548	-0.18	20.14	21.00	1.219	0.668	22.4
Left tilted	10	QPSK 25_0	27710/2310	1:1	0.662	0.13	20.14	21.00	1.219	0.807	22.4
Right cheek	10	QPSK 25_0	27710/2310	1:1	0.677	-0.15	20.14	21.00	1.219	0.825	22.4
Right tilted	10	QPSK 25_0	27710/2310	1:1	0.755	-0.09	20.14	21.00	1.219	0.920	22.4
Head Test (Receiver on) Data(100%RB)											
Left cheek	10	QPSK 50_0	27710/2310	1:1	0.522	0.19	20.05	21.00	1.245	0.650	22.4
Left tilted	10	QPSK 50_0	27710/2310	1:1	0.626	-0.14	20.05	21.00	1.245	0.779	22.4
Right cheek	10	QPSK 50_0	27710/2310	1:1	0.652	0.12	20.05	21.00	1.245	0.811	22.4
Right tilted	10	QPSK 50_0	27710/2310	1:1	0.755	-0.11	20.05	21.00	1.245	0.940	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.208	0.02	23.45	24.50	1.274	0.265	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.548	0.05	23.45	24.50	1.274	0.698	22.4
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	27710/2310	1:1	0.179	0.02	22.37	23.50	1.297	0.232	22.4
Back side	10	QPSK 25_0	27710/2310	1:1	0.442	0.05	22.37	23.50	1.297	0.573	22.4
Hotspot on Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.349	0.07	22.61	23.50	1.227	0.428	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.940	-0.03	22.61	23.50	1.227	1.154	22.4
Back side - Repeat SAR	10	QPSK 1_0	27710/2310	1:1	0.921	0.09	22.61	23.50	1.227	1.130	22.4
Left side	10	QPSK 1_0	27710/2310	1:1	0.383	0.01	22.61	23.50	1.227	0.470	22.4
Top side	10	QPSK 1_0	27710/2310	1:1	0.334	0.03	22.61	23.50	1.227	0.410	22.4
Hotspot on Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	27710/2310	1:1	0.269	0.02	22.54	23.50	1.247	0.336	22.4
Back side	10	QPSK 25_0	27710/2310	1:1	0.789	-0.01	22.54	23.50	1.247	0.984	22.4
Left side	10	QPSK 25_0	27710/2310	1:1	0.323	-0.08	22.54	23.50	1.247	0.403	22.4
Top side	10	QPSK 25_0	27710/2310	1:1	0.415	0.04	22.54	23.50	1.247	0.518	22.4
Hotspot on Test data(Separate 10mm 100%RB)											
Back side	10	QPSK 50_0	27710/2310	1:1	0.737	0.09	22.52	23.50	1.253	0.924	22.4
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific (Sensro on) 10g SAR Test data(Separate 0mm 1RB)											
Back side	10	QPSK 1_0	27710/2310	1:1	2.040	0.10	22.16	23.00	1.213	2.475	22.4
Product specific (Sensro on) 10g SAR Test data (Separate 0mm 50%RB)											
Back side	10	QPSK 25_0	27710/2310	1:1	1.680	0.04	22.16	23.00	1.213	2.038	22.4
Product specific (Sensro on) 10g SAR Test data (Separate 0mm 100%RB)											
Back side	10	QPSK 50_0	27710/2310	1:1	1.720	-0.02	22.16	23.00	1.213	2.087	22.4
Product specific (Sensro off) 10g SAR Test data											
Back side-18mm	10	QPSK 1_0	27710/2310	1:1	0.185	-0.11	23.45	24.50	1.274	0.236	22.4
Ant 2 Test Record for ENDC											



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Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test Data(1RB)											
Left cheek	10	QPSK 1_0	27710/2310	1:1	0.470	0.09	19.21	20.00	1.199	0.564	22.4
Left tilted	10	QPSK 1_0	27710/2310	1:1	0.169	-0.06	19.21	20.00	1.199	0.203	22.4
Right cheek	10	QPSK 1_0	27710/2310	1:1	0.845	-0.14	19.21	20.00	1.199	1.014	22.4
Right tilted	10	QPSK 1_0	27710/2310	1:1	0.243	0.03	19.21	20.00	1.199	0.291	22.4
Head Test (Receiver on) Data(50%RB)											
Left cheek	10	QPSK 25_0	27710/2310	1:1	0.376	-0.10	19.08	20.00	1.236	0.465	22.4
Left tilted	10	QPSK 25_0	27710/2310	1:1	0.132	-0.03	19.08	20.00	1.236	0.163	22.4
Right cheek	10	QPSK 25_0	27710/2310	1:1	0.652	0.10	19.08	20.00	1.236	0.806	22.4
Right tilted	10	QPSK 25_0	27710/2310	1:1	0.196	-0.15	19.08	20.00	1.236	0.242	22.4
Head Test (Receiver on) Data(100%RB)											
Right cheek	10	QPSK 50_0	27710/2310	1:1	0.642	0.02	19.05	20.00	1.245	0.799	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.354	-0.05	23.77	24.50	1.183	0.419	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.780	0.02	23.77	24.50	1.183	<b>0.923</b>	22.4
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_0	27710/2310	1:1	0.166	0.01	22.64	23.50	1.219	0.202	22.4
Back side	10	QPSK 25_0	27710/2310	1:1	0.371	0.06	22.64	23.50	1.219	0.452	22.4
Body worn Test data(Separate 15mm 100%RB)											
Back side	10	QPSK 50_0	27710/2310	1:1	0.416	-0.11	22.48	23.50	1.265	0.526	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_0	27710/2310	1:1	0.293	0.03	20.21	21.00	1.199	0.351	22.4
Back side	10	QPSK 1_0	27710/2310	1:1	0.707	-0.07	20.21	21.00	1.199	0.848	22.4
Left side	10	QPSK 1_0	27710/2310	1:1	0.351	0.07	20.21	21.00	1.199	0.421	22.4
Top side	10	QPSK 1_0	27710/2310	1:1	0.082	0.05	20.21	21.00	1.199	0.098	22.4
Hotspot Test data(Separate 10mm 50%RB)											
Front side	10	QPSK 25_0	27710/2310	1:1	0.142	0.04	20.06	21.00	1.242	0.176	22.4
Back side	10	QPSK 25_0	27710/2310	1:1	0.431	0.07	20.06	21.00	1.242	0.535	22.4
Left side	10	QPSK 25_0	27710/2310	1:1	0.158	0.10	20.06	21.00	1.242	0.196	22.4
Top side	10	QPSK 25_0	27710/2310	1:1	0.255	-0.09	20.06	21.00	1.242	0.317	22.4
Hotspot Test data(Separate 10mm 100%RB)											
Back side	10	QPSK 50_0	27710/2310	1:1	0.441	0.01	20.09	21.00	1.233	0.544	22.4
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10g SAR Test data (Separate 0mm 1RB)											
Back side	10	QPSK 1_0	27710/2310	1:1	2.300	0.04	23.77	24.50	1.183	<b>2.721</b>	22.4
Back side - Repeat SAR	10	QPSK 1_0	27710/2310	1:1	2.190	-0.12	23.77	24.50	1.183	2.591	22.4
Product specific 10g SAR Test data (Separate 0mm 50%RB)											
Back side	10	QPSK 25_0	27710/2310	1:1	1.890	0.03	22.64	23.50	1.219	2.304	22.4
Product specific 10g SAR Test data (Separate 0mm 100%RB)											
Back side	10	QPSK 50_0	27710/2310	1:1	1.950	-0.01	22.48	23.50	1.265	2.466	22.4

Table 19: SAR of LTE Band 41 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	27710/2310	0.940	0.921	1.02062975	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .



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



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Test Position	Channel/ Frequency	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Back side	27710/2310	2.30	2.19	1.050228311	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 2.0$  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  $\geq 3.63$  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  $\geq 3.75$  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  $< 2.0$  W/kg

### 9.2.10 SAR Result of LTE Band 48

LTE Band 48 SAR Test Record											
Ant 4 Test Record											
Test position	BW	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	56150/3641	1:1.58	0.587	-0.08	20.35	21.00	1.161	<b>0.682</b>	22.1
Left tilted	20	QPSK 1_0	56150/3641	1:1.58	0.556	0.13	20.35	21.00	1.161	0.646	22.1
Right cheek	20	QPSK 1_0	56150/3641	1:1.58	0.381	-0.14	20.35	21.00	1.161	0.443	22.1
Right tilted	20	QPSK 1_0	56150/3641	1:1.58	0.374	0.09	20.35	21.00	1.161	0.434	22.1
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	56150/3641	1:1.58	0.470	-0.05	20.22	21.00	1.197	0.562	22.1
Left tilted	20	QPSK 50_0	56150/3641	1:1.58	0.439	0.15	20.22	21.00	1.197	0.525	22.1
Right cheek	20	QPSK 50_0	56150/3641	1:1.58	0.312	0.01	20.22	21.00	1.197	0.373	22.1
Right tilted	20	QPSK 50_0	56150/3641	1:1.58	0.306	-0.07	20.22	21.00	1.197	0.366	22.1
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	56150/3641	1:1.58	0.153	-0.12	23.42	24.50	1.282	0.196	22.1
Back side	20	QPSK 1_0	56150/3641	1:1.58	0.234	0.05	23.42	24.50	1.282	<b>0.300</b>	22.1
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	56150/3641	1:1.58	0.099	0.04	22.46	23.50	1.271	0.126	22.1
Back side	20	QPSK 50_0	56150/3641	1:1.58	0.152	0.07	22.46	23.50	1.271	0.193	22.1
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	56150/3641	1:1.58	0.281	0.16	23.42	24.50	1.282	0.360	22.1
Back side	20	QPSK 1_0	56150/3641	1:1.58	0.568	0.06	23.42	24.50	1.282	<b>0.728</b>	22.1
Left side	20	QPSK 1_0	56150/3641	1:1.58	0.134	0.04	23.42	24.50	1.282	0.172	22.1
Right side	20	QPSK 1_0	56150/3641	1:1.58	0.152	0.12	23.42	24.50	1.282	0.195	22.1
Top side	20	QPSK 1_0	56150/3641	1:1.58	0.435	-0.03	23.42	24.50	1.282	0.558	22.1
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	56150/3641	1:1.58	0.234	-0.07	22.46	23.50	1.271	0.297	22.1
Back side	20	QPSK 50_0	56150/3641	1:1.58	0.426	0.01	22.46	23.50	1.271	0.541	22.1
Left side	20	QPSK 50_0	56150/3641	1:1.58	0.119	0.19	22.46	23.50	1.271	0.151	22.1
Right side	20	QPSK 50_0	56150/3641	1:1.58	0.116	-0.11	22.46	23.50	1.271	0.147	22.1
Top side	20	QPSK 50_0	56150/3641	1:1.58	0.335	0.03	22.46	23.50	1.271	0.426	22.1

Table 20: SAR of LTE Band 48 for Head and Body.



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9.2.11 SAR Result of LTE Band 66

LTE Band 66 SAR Test Record											
Ant 3 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.441	0.12	17.38	18.00	1.153	0.509	22.2
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.558	-0.01	17.38	18.00	1.153	0.644	22.2
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.796	0.06	17.38	18.00	1.153	0.918	22.2
Right cheek	20	QPSK 1_0	132072/1720	1:1	0.765	0.02	17.33	18.00	1.167	0.893	22.2
Right cheek	20	QPSK 1_0	132572/1770	1:1	0.831	0.07	17.29	18.00	1.178	0.979	22.2
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.834	-0.07	17.38	18.00	1.153	0.962	22.2
Right tilted	20	QPSK 1_0	132072/1720	1:1	0.773	-0.04	17.33	18.00	1.167	0.902	22.2
Right tilted	20	QPSK 1_0	132572/1770	1:1	0.908	0.02	17.29	18.00	1.178	<b>1.069</b>	22.2
Right tilted - Repeat	20	QPSK 1_0	132572/1770	1:1	0.892	-0.11	17.29	18.00	1.178	1.050	22.2
Head Test (Receiver on) Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.372	0.04	17.24	18.00	1.191	0.443	22.2
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.454	-0.07	17.24	18.00	1.191	0.541	22.2
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.677	0.11	17.24	18.00	1.191	0.806	22.2
Right cheek	20	QPSK 50_0	132072/1720	1:1	0.613	-0.19	17.16	18.00	1.213	0.744	22.2
Right cheek	20	QPSK 50_0	132572/1770	1:1	0.719	0.09	17.17	18.00	1.211	0.870	22.2
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.698	-0.08	17.24	18.00	1.191	0.831	22.2
Right tilted	20	QPSK 50_0	132072/1720	1:1	0.632	-0.05	17.16	18.00	1.213	0.767	22.2
Right tilted	20	QPSK 50_0	132572/1770	1:1	0.778	0.02	17.17	18.00	1.211	0.942	22.2
Head Test (Receiver on) Data(100%RB)											
Right cheek	20	QPSK 100_0	132322/1745	1:1	0.640	0.01	17.21	18.00	1.199	0.768	22.2
Right tilted	20	QPSK 100_0	132322/1745	1:1	0.688	0.02	17.21	18.00	1.199	0.825	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.341	0.01	23.96	24.50	1.132	0.386	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.474	0.02	23.96	24.50	1.132	<b>0.537</b>	22.2
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.277	-0.02	22.77	23.50	1.183	0.328	22.2
Back side	20	QPSK 50_0	132322/1745	1:1	0.398	0.05	22.77	23.50	1.183	0.471	22.2
Hotspot on Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.500	0.03	22.32	23.00	1.169	0.585	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.731	-0.18	22.32	23.00	1.169	0.855	22.2
Back side	20	QPSK 1_0	132072/1720	1:1	0.593	0.09	22.24	23.00	1.191	0.706	22.2
Back side	20	QPSK 1_0	132572/1770	1:1	0.820	0.18	22.28	23.00	1.180	<b>0.968</b>	22.2
Left side	20	QPSK 1_0	132322/1745	1:1	0.115	-0.03	22.32	23.00	1.169	0.134	22.2
Top side	20	QPSK 1_0	132322/1745	1:1	0.718	0.11	22.32	23.00	1.169	0.840	22.2
Top side	20	QPSK 1_0	132072/1720	1:1	0.664	0.19	22.24	23.00	1.191	0.791	22.2
Top side	20	QPSK 1_0	132572/1770	1:1	0.813	0.03	22.28	23.00	1.180	0.960	22.2
Hotspot on Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.413	-0.03	22.25	23.00	1.189	0.491	22.2
Back side	20	QPSK 50_0	132322/1745	1:1	0.625	0.05	22.25	23.00	1.189	0.743	22.2
Left side	20	QPSK 50_0	132322/1745	1:1	0.085	-0.04	22.25	23.00	1.189	0.101	22.2
Top side	20	QPSK 50_0	132322/1745	1:1	0.525	-0.02	22.25	23.00	1.189	0.624	22.2
Hotspot on Test data(Separate 10mm 100%RB)											
Back side	20	QPSK 100_0	132322/1745	1:1	0.616	0.02	22.18	23.00	1.208	0.744	22.2
Top side	20	QPSK 100_0	132322/1745	1:1	0.508	-0.10	22.18	23.00	1.208	0.614	22.2
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.(°C)



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Product specific (Sensro on) 10g SAR Test data(Separate 0mm 1RB)											
Back side	20	QPSK 1_0	132322/1745	1:1	1.760	0.17	22.66	23.50	1.213	2.136	22.2
Back side	20	QPSK 1_0	132072/1720	1:1	1.750	-0.10	22.62	23.50	1.225	2.143	22.2
Back side	20	QPSK 1_0	132572/1770	1:1	1.810	0.08	22.57	23.50	1.239	<b>2.242</b>	22.2
Top side	20	QPSK 1_0	132322/1745	1:1	1.750	-0.06	22.66	23.50	1.213	2.123	22.2
Top side	20	QPSK 1_0	132072/1720	1:1	1.720	0.12	22.62	23.50	1.225	2.106	22.2
Top side	20	QPSK 1_0	132572/1770	1:1	1.770	0.16	22.57	23.50	1.239	2.193	22.2
Product specific (Sensro on) 10g SAR Test data (Separate 0mm 50%RB)											
Back side	20	QPSK 50_0	132322/1745	1:1	1.360	0.17	22.58	23.50	1.236	1.681	22.2
Top side	20	QPSK 50_0	132322/1745	1:1	1.300	-0.06	22.58	23.50	1.236	1.607	22.2
Product specific (Sensro on) 10g SAR Test data (Separate 0mm 100%RB)											
Back side	20	QPSK 100_0	132322/1745	1:1	1.260	-0.04	22.46	23.50	1.271	1.601	22.2
Top side	20	QPSK 100_0	132322/1745	1:1	1.190	-0.01	22.46	23.50	1.271	1.512	22.2
Product specific (Sensro on) 10g SAR Test data											
Back side-18mm	20	QPSK 1_0	132572/1770	1:1	0.219	-0.05	23.77	24.50	1.183	0.259	22.2
Top side-17mm	20	QPSK 1_0	132572/1770	1:1	0.272	0.02	23.77	24.50	1.183	0.322	22.2
Ant 2 Test Record for END C											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	132322/1745	1:1	0.225	-0.16	23.75	24.50	1.189	0.267	22.2
Left tilted	20	QPSK 1_0	132322/1745	1:1	0.099	0.19	23.75	24.50	1.189	0.118	22.2
Right cheek	20	QPSK 1_0	132322/1745	1:1	0.442	0.09	23.75	24.50	1.189	0.525	22.2
Right tilted	20	QPSK 1_0	132322/1745	1:1	0.149	0.04	23.75	24.50	1.189	0.177	22.2
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	132322/1745	1:1	0.181	0.10	22.64	23.50	1.219	0.221	22.2
Left tilted	20	QPSK 50_0	132322/1745	1:1	0.083	-0.04	22.64	23.50	1.219	0.101	22.2
Right cheek	20	QPSK 50_0	132322/1745	1:1	0.391	-0.13	22.64	23.50	1.219	0.477	22.2
Right tilted	20	QPSK 50_0	132322/1745	1:1	0.112	0.11	22.64	23.50	1.219	0.137	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.095	0.14	23.75	24.50	1.189	0.113	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.277	0.05	23.75	24.50	1.189	0.329	22.2
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.082	0.03	22.64	23.50	1.219	0.100	22.2
Back side	20	QPSK 50_0	132322/1745	1:1	0.259	-0.11	22.64	23.50	1.219	0.316	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	132322/1745	1:1	0.128	0.01	23.75	24.50	1.189	0.152	22.2
Back side	20	QPSK 1_0	132322/1745	1:1	0.438	-0.06	23.75	24.50	1.189	0.521	22.2
Left side	20	QPSK 1_0	132322/1745	1:1	0.277	0.02	23.75	24.50	1.189	0.329	22.2
Top side	20	QPSK 1_0	132322/1745	1:1	0.096	-0.14	23.75	24.50	1.189	0.114	22.2
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	132322/1745	1:1	0.115	0.18	22.64	23.50	1.219	0.140	22.2
Back side	20	QPSK 50_0	132322/1745	1:1	0.379	-0.04	22.64	23.50	1.219	0.462	22.2
Left side	20	QPSK 50_0	132322/1745	1:1	0.248	-0.16	22.64	23.50	1.219	0.302	22.2
Top side	20	QPSK 50_0	132322/1745	1:1	0.062	-0.18	22.64	23.50	1.219	0.076	22.2

Table 21: SAR of LTE Band 66 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	132572/1770	0.908	0.892	1.01793722	N/A	N/A

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

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



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- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was  $\geq 1.5$  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

### 9.2.12 SAR Result of LTE Band 71

LTE Band 71 SAR Test Record											
Ant 0 Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data(1RB)											
Left cheek	20	QPSK 1_0	133297/680.5	1:1	0.116	-0.10	24.45	25.00	1.135	0.132	22.2
Left tilted	20	QPSK 1_0	133297/680.5	1:1	0.085	-0.04	24.45	25.00	1.135	0.096	22.2
Right cheek	20	QPSK 1_0	133297/680.5	1:1	0.199	0.07	24.45	25.00	1.135	<b>0.226</b>	22.2
Right tilted	20	QPSK 1_0	133297/680.5	1:1	0.090	0.03	24.45	25.00	1.135	0.102	22.2
Head Test Data(50%RB)											
Left cheek	20	QPSK 50_0	133297/680.5	1:1	0.089	0.04	23.32	24.00	1.169	0.104	22.2
Left tilted	20	QPSK 50_0	133297/680.5	1:1	0.078	-0.18	23.32	24.00	1.169	0.091	22.2
Right cheek	20	QPSK 50_0	133297/680.5	1:1	0.152	-0.18	23.32	24.00	1.169	0.178	22.2
Right tilted	20	QPSK 50_0	133297/680.5	1:1	0.071	-0.05	23.32	24.00	1.169	0.083	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_0	133297/680.5	1:1	0.219	-0.07	24.45	25.00	1.135	0.249	22.2
Back side	20	QPSK 1_0	133297/680.5	1:1	0.302	-0.04	24.45	25.00	1.135	<b>0.343</b>	22.2
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_0	133297/680.5	1:1	0.201	-0.11	23.32	24.00	1.169	0.235	22.2
Back side	20	QPSK 50_0	133297/680.5	1:1	0.268	0.03	23.32	24.00	1.169	0.313	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_0	133297/680.5	1:1	0.248	-0.10	24.45	25.00	1.135	0.281	22.2
Back side	20	QPSK 1_0	133297/680.5	1:1	0.386	0.15	24.45	25.00	1.135	<b>0.438</b>	22.2
Right side	20	QPSK 1_0	133297/680.5	1:1	0.045	-0.07	24.45	25.00	1.135	0.051	22.2
Bottom side	20	QPSK 1_0	133297/680.5	1:1	0.153	-0.16	24.45	25.00	1.135	0.174	22.2
Hotspot Test data(Separate 10mm 50%RB)											
Front side	20	QPSK 50_0	133297/680.5	1:1	0.205	0.02	23.32	24.00	1.169	0.240	22.2
Back side	20	QPSK 50_0	133297/680.5	1:1	0.316	-0.03	23.32	24.00	1.169	0.370	22.2
Right side	20	QPSK 50_0	133297/680.5	1:1	0.065	0.10	23.32	24.00	1.169	0.076	22.2
Bottom side	20	QPSK 50_0	133297/680.5	1:1	0.228	0.13	23.32	24.00	1.169	0.267	22.2

Table 22: SAR of LTE Band 71 for Head and Body.



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9.2.13 SAR Result of 5G NR n2

SA N2 SAR Test Record												
Ant2 Test Record for END C												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head (Receiver on) Test data(1RB)												
Left cheek	20	QPSK 1_1	376000/1880	1:1	0.354	-0.11	17.68	18.50	1.208	0.428	22.3	
Left tilted	20	QPSK 1_1	376000/1880	1:1	0.428	-0.11	17.68	18.50	1.208	0.517	22.3	
Right cheek	20	QPSK 1_1	376000/1880	1:1	0.697	0.17	17.68	18.50	1.208	0.842	22.3	
Right cheek	20	QPSK 1_1	372000/1860	1:1	0.629	-0.13	17.62	18.50	1.225	0.770	22.3	
Right cheek	20	QPSK 1_1	380000/1900	1:1	0.656	0.16	17.66	18.50	1.213	0.796	22.3	
Right tilted	20	QPSK 1_1	376000/1880	1:1	0.730	-0.19	17.68	18.50	1.208	0.882	22.3	
Right tilted	20	QPSK 1_1	372000/1860	1:1	0.613	0.15	17.62	18.50	1.225	0.751	22.3	
Right tilted	20	QPSK 1_1	380000/1900	1:1	0.684	-0.10	17.66	18.50	1.213	0.830	22.3	
Head (Receiver on) Test data(50%RB)												
Left cheek	20	QPSK 50_28	376000/1880	1:1	0.379	0.02	17.61	18.50	1.227	0.465	22.3	
Left tilted	20	QPSK 50_28	376000/1880	1:1	0.444	0.06	17.61	18.50	1.227	0.545	22.3	
Right cheek	20	QPSK 50_28	376000/1880	1:1	0.725	-0.06	17.61	18.50	1.227	0.890	22.3	
Right cheek	20	QPSK 50_28	372000/1860	1:1	0.629	0.02	17.53	18.50	1.250	0.786	22.3	
Right cheek	20	QPSK 50_28	380000/1900	1:1	0.695	0.17	17.49	18.50	1.262	0.877	22.3	
Right tilted	20	QPSK 50_28	376000/1880	1:1	0.760	0.01	17.61	18.50	1.227	<b>0.933</b>	22.3	
Right tilted	20	QPSK 50_28	372000/1860	1:1	0.651	0.08	17.53	18.50	1.250	0.814	22.3	
Right tilted	20	QPSK 50_28	380000/1900	1:1	0.716	-0.01	17.49	18.50	1.262	0.903	22.3	
Head (Receiver on) Test data(100%RB)												
Right cheek	20	QPSK 100_00	376000/1880	1:1	0.629	0.02	17.56	18.50	1.242	0.781	22.3	
Right tilted	20	QPSK 100_00	376000/1880	1:1	0.662	-0.04	17.56	18.50	1.242	0.822	22.3	
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK 1_1	376000/1880	1:1	0.353	0.11	23.72	24.50	1.197	0.422	22.3	
Back side	20	QPSK 1_1	376000/1880	1:1	0.624	0.12	23.72	24.50	1.197	<b>0.747</b>	22.3	
Body worn Test data (Separate 15mm 50%RB)												
Front side	20	QPSK 50_28	376000/1880	1:1	0.267	0.14	23.72	24.50	1.197	0.320	22.3	
Back side	20	QPSK 50_28	376000/1880	1:1	0.505	-0.01	23.72	24.50	1.197	0.604	22.3	
Hotspot on Test data(Separate 10mm 1RB)												
Front side	20	QPSK 1_1	376000/1880	1:1	0.379	-0.18	21.59	22.50	1.233	0.467	22.3	
Back side	20	QPSK 1_1	376000/1880	1:1	0.685	0.03	21.59	22.50	1.233	0.845	22.3	
Back side	20	QPSK 1_1	372000/1860	1:1	0.662	0.05	21.55	22.50	1.245	0.824	22.3	
Back side	20	QPSK 1_1	380000/1900	1:1	0.673	-0.05	21.53	22.50	1.250	0.841	22.3	
Left side	20	QPSK 1_1	376000/1880	1:1	0.095	-0.01	21.59	22.50	1.233	0.117	22.3	
Top side	20	QPSK 1_1	376000/1880	1:1	0.881	-0.06	21.59	22.50	1.233	<b>1.086</b>	22.3	
Top side	20	QPSK 1_1	372000/1860	1:1	0.819	0.02	21.55	22.50	1.245	1.019	22.3	
Top side	20	QPSK 1_1	380000/1900	1:1	0.859	-0.09	21.53	22.50	1.250	1.074	22.3	
Top side - Repeat	20	QPSK 1_1	376000/1880	1:1	0.874	0.14	21.59	22.50	1.233	1.078	22.3	
Hotspot on Test data (Separate 10mm 50%RB)												
Front side	20	QPSK 50_28	376000/1880	1:1	0.315	0.19	21.55	22.50	1.245	0.392	22.3	
Back side	20	QPSK 50_28	376000/1880	1:1	0.544	0.17	21.55	22.50	1.245	0.677	22.3	
Left side	20	QPSK 50_28	376000/1880	1:1	0.107	0.19	21.55	22.50	1.245	0.133	22.3	
Top side	20	QPSK 50_28	376000/1880	1:1	0.774	0.09	21.55	22.50	1.245	0.963	22.3	
Top side	20	QPSK 50_28	372000/1860	1:1	0.685	0.06	21.53	22.50	1.250	0.856	22.3	
Top side	20	QPSK 50_28	380000/1900	1:1	0.752	-0.07	21.49	22.50	1.262	0.949	22.3	
Hotspot on Test data (Separate 10mm 100%RB)												
Back side	20	QPSK 100_00	376000/1880	1:1	0.544	-0.11	21.51	22.50	1.256	0.683	22.3	
Top side	20	QPSK 100_00	376000/1880	1:1	0.640	0.14	21.51	22.50	1.256	0.804	22.3	



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Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	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)
Product specific 10g SAR Test data(Separate 0mm 1RB)											
Back side	20	QPSK 1_1	376000/1880	1:1	1.840	0.07	23.72	24.50	1.197	2.202	22.3
Back side	20	QPSK 1_1	372000/1860	1:1	1.730	0.04	23.63	24.50	1.222	2.114	22.3
Back side	20	QPSK 1_1	380000/1900	1:1	1.800	-0.19	23.66	24.50	1.213	2.184	22.3
Top side	20	QPSK 1_1	376000/1880	1:1	2.480	0.14	23.72	24.50	1.197	2.968	22.3
Top side	20	QPSK 1_1	372000/1860	1:1	2.340	-0.12	23.63	24.50	1.222	2.859	22.3
Top side	20	QPSK 1_1	380000/1900	1:1	2.380	-0.11	23.66	24.50	1.213	2.888	22.3
Product specific 10g SAR Test data(Separate 0mm 50%RB)											
Back side	20	QPSK 50_28	376000/1880	1:1	1.900	0.13	23.68	24.50	1.208	2.295	22.3
Back side	20	QPSK 50_28	372000/1860	1:1	1.800	0.14	23.50	24.50	1.259	2.266	22.3
Back side	20	QPSK 50_28	380000/1900	1:1	1.880	0.15	23.63	24.50	1.222	2.297	22.3
Top side	20	QPSK 50_28	376000/1880	1:1	2.590	0.06	23.68	24.50	1.208	<b>3.128</b>	22.3
Top side	20	QPSK 50_28	372000/1860	1:1	2.440	-0.01	23.50	24.50	1.259	3.072	22.3
Top side	20	QPSK 50_28	380000/1900	1:1	2.510	0.05	23.63	24.50	1.222	3.067	22.3
Top side - Repeat	20	QPSK 50_28	376000/1880	1:1	2.540	0.12	23.68	24.50	1.208	3.068	22.3
Product specific 10g SAR Test data(Separate 0mm 100%RB)											
Back side	20	QPSK 100_00	376000/1880	1:1	1.800	-0.07	22.69	23.50	1.205	2.169	22.3
Top side	20	QPSK 100_00	376000/1880	1:1	2.260	-0.11	22.69	23.50	1.205	2.723	22.3

Table 23: SAR of 5G NR n2 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Top side	376000/1880	0.881	0.874	1.008009153	N/A	N/A

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

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

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was  $\geq 1.5$  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

Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (10g)		SAR (10g)	SAR (10g)
Top side	376000/1880	2.59	2.54	1.019685039	N/A	N/A

Note: 1) When the original highest measured SAR is  $\geq 2.0$  W/kg, the measurement was repeated once.

2) A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was  $> 1.20$  or when the original or repeated measurement was  $\geq 3.63$  W/kg (~ 10% from the 1-g SAR limit).

3) A third repeated measurement was preformed only if the original, first or second repeated measurement was  $\geq 3.75$  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  $< 2.0$  W/kg



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9.2.14 SAR Result of 5G NR n25

SA N25 SAR Test Record												
Ant3 Test Record												
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head (Receiver on) Test data(1RB)												
Left cheek	20	QPSK 1_1	376500/1882.5	1:1	0.422	0.08	17.11	18.00	1.227	0.518	22.3	
Left tilted	20	QPSK 1_1	376500/1882.5	1:1	0.459	-0.13	17.11	18.00	1.227	0.563	22.3	
Right cheek	20	QPSK 1_1	376500/1882.5	1:1	0.854	0.02	17.11	18.00	1.227	1.048	22.3	
Right cheek	20	QPSK 1_1	372000/1850	1:1	0.791	0.06	17.07	18.00	1.239	0.980	22.3	
Right cheek	20	QPSK 1_1	381000/1905	1:1	0.837	-0.11	17.08	18.00	1.236	1.034	22.3	
Right tilted	20	QPSK 1_1	376500/1882.5	1:1	0.815	-0.06	17.11	18.00	1.227	1.000	22.3	
Right tilted	20	QPSK 1_1	372000/1850	1:1	0.812	-0.17	17.07	18.00	1.239	1.006	22.3	
Right tilted	20	QPSK 1_1	381000/1905	1:1	0.841	0.05	17.08	18.00	1.236	1.039	22.3	
Head (Receiver on) Test data(50%RB)												
Left cheek	20	QPSK 50_28	376500/1882.5	1:1	0.438	0.02	17.05	18.00	1.245	0.545	22.3	
Left tilted	20	QPSK 50_28	376500/1882.5	1:1	0.476	0.06	17.05	18.00	1.245	0.592	22.3	
Right cheek	20	QPSK 50_28	376500/1882.5	1:1	0.876	0.13	17.05	18.00	1.245	1.090	22.3	
Right cheek	20	QPSK 50_28	372000/1850	1:1	0.791	-0.17	17.03	18.00	1.250	0.989	22.3	
Right cheek	20	QPSK 50_28	381000/1905	1:1	0.858	0.09	17.01	18.00	1.256	1.078	22.3	
Right tilted	20	QPSK 50_28	376500/1882.5	1:1	0.891	0.04	17.05	18.00	1.245	1.109	22.3	
Right tilted	20	QPSK 50_28	372000/1850	1:1	0.733	-0.15	17.03	18.00	1.250	0.916	22.3	
Right tilted	20	QPSK 50_28	381000/1905	1:1	0.854	-0.14	17.01	18.00	1.256	1.073	22.3	
Right tilted - Repeat	20	QPSK 50_28	376500/1882.5	1:1	0.877	0.04	17.05	18.00	1.245	1.091	22.3	
Head (Receiver on) Test data(100%RB)												
Right cheek	20	QPSK 100_0	376500/1882.5	1:1	0.858	0.03	17.01	18.00	1.256	1.078	22.3	
Right tilted	20	QPSK 100_0	376500/1882.5	1:1	0.837	0.01	17.01	18.00	1.256	1.051	22.3	
Body worn Test data(Separate 15mm 1RB)												
Front side	20	QPSK 1_1	376500/1882.5	1:1	0.551	-0.03	23.69	24.50	1.205	0.664	22.3	
Back side	20	QPSK 1_1	376500/1882.5	1:1	0.774	0.08	23.69	24.50	1.205	0.933	22.3	
Back side	20	QPSK 1_1	372000/1850	1:1	0.677	0.08	23.53	24.50	1.250	0.846	22.3	
Back side	20	QPSK 1_1	381000/1905	1:1	0.802	0.07	23.54	24.50	1.247	1.000	22.3	
Body worn Test data (Separate 15mm 50%RB)												
Front side	20	QPSK 50_28	376500/1882.5	1:1	0.518	-0.07	23.54	24.50	1.247	0.646	22.3	
Back side	20	QPSK 50_28	376500/1882.5	1:1	0.776	0.05	23.54	24.50	1.247	0.968	22.3	
Back side	20	QPSK 50_28	372000/1850	1:1	0.673	0.09	23.51	24.50	1.256	0.845	22.3	
Back side	20	QPSK 50_28	381000/1905	1:1	0.762	0.02	23.54	24.50	1.247	0.951	22.3	
Body worn Test data (Separate 15mm 100%RB)												
Back side	20	QPSK 100_0	376500/1882.5	1:1	0.754	-0.14	22.59	23.50	1.233	0.930	22.3	
Hotspot on Test data(Separate 10mm 1RB)												
Front side	20	QPSK 1_1	376500/1882.5	1:1	0.499	0.15	20.51	21.50	1.256	0.627	22.3	
Back side	20	QPSK 1_1	376500/1882.5	1:1	0.688	-0.05	20.51	21.50	1.256	0.864	22.3	
Back side	20	QPSK 1_1	372000/1850	1:1	0.589	-0.19	20.46	21.50	1.271	0.748	22.3	
Back side	20	QPSK 1_1	381000/1905	1:1	0.657	0.06	20.50	21.50	1.259	0.827	22.3	
Left side	20	QPSK 1_1	376500/1882.5	1:1	0.139	0.19	20.51	21.50	1.256	0.175	22.3	
Right side	20	QPSK 1_1	376500/1882.5	1:1	0.050	-0.17	20.51	21.50	1.256	0.063	22.3	
Top side	20	QPSK 1_1	376500/1882.5	1:1	0.841	-0.12	20.51	21.50	1.256	1.056	22.3	
Top side	20	QPSK 1_1	372000/1850	1:1	0.823	0.05	20.46	21.50	1.271	1.046	22.3	
Top side	20	QPSK 1_1	381000/1905	1:1	0.841	-0.11	20.50	21.50	1.259	1.059	22.3	
Hotspot on Test data (Separate 10mm 50%RB)												
Front side	20	QPSK 50_28	376500/1882.5	1:1	0.449	0.01	20.35	21.50	1.303	0.585	22.3	
Back side	20	QPSK 50_28	376500/1882.5	1:1	0.643	0.10	20.35	21.50	1.303	0.838	22.3	
Back side	20	QPSK 50_28	372000/1850	1:1	0.544	0.10	20.23	21.50	1.340	0.729	22.3	



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Back side	20	QPSK 50_28	381000/1905	1:1	0.594	-0.05	20.34	21.50	1.306	0.776	22.3
Left side	20	QPSK 50_28	376500/1882.5	1:1	0.179	0.06	20.35	21.50	1.303	0.233	22.3
Right side	20	QPSK 50_28	376500/1882.5	1:1	0.045	0.03	20.35	21.50	1.303	0.059	22.3
Top side	20	QPSK 50_28	376500/1882.5	1:1	0.522	0.02	20.35	21.50	1.303	0.680	22.3
Hotspot on Test data (Separate 10mm 100%RB)											
Back side	20	QPSK 100_0	376500/1882.5	1:1	0.607	0.01	20.34	21.50	1.306	0.793	22.3
Top side	20	QPSK 100_0	376500/1882.5	1:1	0.472	0.12	20.34	21.50	1.306	0.617	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific (Sensro on) 10g SAR Test data (Separate 0mm 1RB)											
Front side	20	QPSK 1_1	376500/1882.5	1:1	2.250	-0.06	22.11	23.00	1.227	2.762	22.3
Front side	20	QPSK 1_1	372000/1850	1:1	2.160	-0.04	22.03	23.00	1.250	2.701	22.3
Front side	20	QPSK 1_1	381000/1905	1:1	2.210	-0.04	22.07	23.00	1.239	2.738	22.3
Back side	20	QPSK 1_1	376500/1882.5	1:1	2.030	0.02	22.11	23.00	1.227	2.492	22.3
Back side	20	QPSK 1_1	372000/1850	1:1	1.930	-0.03	22.03	23.00	1.250	2.413	22.3
Back side	20	QPSK 1_1	381000/1905	1:1	1.960	-0.07	22.07	23.00	1.239	2.428	22.3
Top side	20	QPSK 1_1	376500/1882.5	1:1	2.370	-0.17	22.11	23.00	1.227	2.909	22.3
Top side	20	QPSK 1_1	372000/1850	1:1	2.260	0.16	22.03	23.00	1.250	2.826	22.3
Top side	20	QPSK 1_1	381000/1905	1:1	2.350	0.02	22.07	23.00	1.239	2.911	22.3
Product specific (Sensro on) 10gSAR Test data (Separate 0mm 50%RB)											
Front side	20	QPSK 50_28	376500/1882.5	1:1	1.640	-0.02	22.05	23.00	1.245	2.041	22.3
Front side	20	QPSK 50_28	372000/1850	1:1	1.530	-0.09	22.01	23.00	1.256	1.922	22.3
Front side	20	QPSK 50_28	381000/1905	1:1	1.580	-0.15	22.03	23.00	1.250	1.975	22.3
Back side	20	QPSK 50_28	376500/1882.5	1:1	1.840	0.05	22.05	23.00	1.245	2.290	22.3
Back side	20	QPSK 50_28	372000/1850	1:1	1.730	-0.11	22.01	23.00	1.256	2.173	22.3
Back side	20	QPSK 50_28	381000/1905	1:1	1.800	0.02	22.03	23.00	1.250	2.250	22.3
Top side	20	QPSK 50_28	376500/1882.5	1:1	2.530	-0.07	22.05	23.00	1.245	<b>3.149</b>	22.3
Top side	20	QPSK 50_28	372000/1850	1:1	2.410	0.09	22.01	23.00	1.256	3.027	22.3
Top side	20	QPSK 50_28	381000/1905	1:1	2.440	0.03	22.03	23.00	1.250	3.051	22.3
Top side - Repeat	20	QPSK 50_28	376500/1882.5	1:1	2.460	0.01	22.05	23.00	1.245	3.062	22.3
Product specific (Sensro on) 10gSAR Test data (Separate 0mm 100%RB)											
Front side	20	QPSK 100_0	376500/1882.5	1:1	1.550	0.12	22.02	23.00	1.253	1.942	22.3
Back side	20	QPSK 100_0	376500/1882.5	1:1	1.750	0.13	22.02	23.00	1.253	2.193	22.3
Top side	20	QPSK 100_0	376500/1882.5	1:1	2.280	-0.17	22.02	23.00	1.253	2.857	22.3
Product specific (Sensro off) 10g SAR Test data											
Front side-5mm	20	QPSK 1_1	376500/1882.5	1:1	1.100	0.03	23.69	24.50	1.205	1.326	22.3
Back side-18mm	20	QPSK 1_1	376500/1882.5	1:1	0.295	-0.18	23.69	24.50	1.205	0.355	22.3
Top side-17mm	20	QPSK 50_28	376500/1882.5	1:1	0.457	0.07	23.54	24.50	1.247	0.570	22.3

Table 24: SAR of 5G NR n25 for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	376500/1882.5	0.891	0.877	1.015963512	N/A	N/A

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



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Test Position	Channel/ Frequency	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Top side	376500/1882.5	2.53	2.46	1.028455285	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 2.0$  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  $\geq 3.63$  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  $\geq 3.75$  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  $< 2.0$  W/kg

### 9.2.15 SAR Result of 5G NR n26

SA N26 SAR Test Record											
Ant0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	166300/831.5	1:1	0.187	-0.14	23.63	25.00	1.371	0.256	22.3
Left tilted	20	QPSK 1_1	166300/831.5	1:1	0.145	-0.16	23.63	25.00	1.371	0.199	22.3
Right cheek	20	QPSK 1_1	166300/831.5	1:1	0.283	0.02	23.63	25.00	1.371	0.388	22.3
Right tilted	20	QPSK 1_1	166300/831.5	1:1	0.175	0.13	23.63	25.00	1.371	0.240	22.3
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	166300/831.5	1:1	0.218	-0.18	23.63	25.00	1.371	0.299	22.3
Left tilted	20	QPSK 50_28	166300/831.5	1:1	0.172	0.11	23.63	25.00	1.371	0.236	22.3
Right cheek	20	QPSK 50_28	166300/831.5	1:1	0.302	-0.06	23.63	25.00	1.371	<b>0.414</b>	22.3
Right tilted	20	QPSK 50_28	166300/831.5	1:1	0.206	0.14	23.63	25.00	1.371	0.282	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_1	166300/831.5	1:1	0.193	0.09	23.63	25.00	1.371	0.265	22.3
Back side	20	QPSK 1_1	166300/831.5	1:1	0.259	0.07	23.63	25.00	1.371	<b>0.355</b>	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	166300/831.5	1:1	0.198	-0.05	23.63	25.00	1.371	0.271	22.3
Back side	20	QPSK 50_28	166300/831.5	1:1	0.258	-0.17	23.63	25.00	1.371	0.354	22.3
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	166300/831.5	1:1	0.289	0.03	23.63	25.00	1.371	0.396	22.3
Back side	20	QPSK 1_1	166300/831.5	1:1	0.494	0.06	23.63	25.00	1.371	<b>0.677</b>	22.3
Left side	20	QPSK 1_1	166300/831.5	1:1	0.000	0.00	23.63	25.00	1.371	0.000	22.3
Right side	20	QPSK 1_1	166300/831.5	1:1	0.000	0.00	23.63	25.00	1.371	0.000	22.3
Bottom side	20	QPSK 1_1	166300/831.5	1:1	0.208	-0.05	23.63	25.00	1.371	0.285	22.3
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	166300/831.5	1:1	0.323	0.12	23.63	25.00	1.371	0.443	22.3
Back side	20	QPSK 50_28	166300/831.5	1:1	0.493	-0.04	23.63	25.00	1.371	0.676	22.3
Left side	20	QPSK 50_28	166300/831.5	1:1	0.000	0.00	23.63	25.00	1.371	0.000	22.3
Right side	20	QPSK 50_28	166300/831.5	1:1	0.000	0.00	23.63	25.00	1.371	0.000	22.3
Bottom side	20	QPSK 50_28	166300/831.5	1:1	0.325	-0.18	23.63	25.00	1.371	0.446	22.3

Table 25: SAR of 5G NR n26 for Head and Body.



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9.2.16 SAR Result of 5G NR n30

SA N30 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test data(1RB)											
Left cheek	10	QPSK 1_1	462000/2310	1:1	0.301	0.06	20.06	21.00	1.242	0.374	22.4
Left tilted	10	QPSK 1_1	462000/2310	1:1	0.362	0.17	20.06	21.00	1.242	0.449	22.4
Right cheek	10	QPSK 1_1	462000/2310	1:1	0.857	-0.13	20.06	21.00	1.242	1.064	22.4
Right tilted	10	QPSK 1_1	462000/2310	1:1	0.909	0.02	20.06	21.00	1.242	<b>1.129</b>	22.4
Right tilted - Repeat	10	QPSK 1_1	462000/2310	1:1	0.892	0.09	20.06	21.00	1.242	1.108	22.4
Head (Receiver on) Test data(50%RB)											
Left cheek	10	QPSK 25_14	462000/2310	1:1	0.298	-0.10	20.04	21.00	1.247	0.372	22.4
Left tilted	10	QPSK 25_14	462000/2310	1:1	0.360	0.02	20.04	21.00	1.247	0.449	22.4
Right cheek	10	QPSK 25_14	462000/2310	1:1	0.827	0.01	20.04	21.00	1.247	1.032	22.4
Right tilted	10	QPSK 25_14	462000/2310	1:1	0.866	-0.10	20.04	21.00	1.247	1.080	22.4
Head (Receiver on) Test data(100%RB)											
Right cheek	10	QPSK 50_0	462000/2310	1:1	0.745	-0.06	20.01	21.00	1.256	0.936	22.4
Right tilted	10	QPSK 50_0	462000/2310	1:1	0.827	-0.02	20.01	21.00	1.256	1.039	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	10	QPSK 1_1	462000/2310	1:1	0.256	-0.15	23.82	25.00	1.312	0.336	22.4
Back side	10	QPSK 1_1	462000/2310	1:1	0.638	0.06	23.82	25.00	1.312	0.837	22.4
Body worn Test data(Separate 15mm 50%RB)											
Front side	10	QPSK 25_14	462000/2310	1:1	0.280	0.01	23.59	25.00	1.384	0.387	22.4
Back side	10	QPSK 25_14	462000/2310	1:1	0.682	0.05	23.59	25.00	1.384	<b>0.944</b>	22.4
Body worn Test data(Separate 15mm 100%RB)											
Back side	10	QPSK 50_0	462000/2310	1:1	0.541	0.18	22.65	24.00	1.365	0.738	22.4
Hotspot on Test data(Separate 10mm 1RB)											
Front side	10	QPSK 1_1	462000/2310	1:1	0.300	-0.09	21.59	22.50	1.233	0.370	22.4
Back side	10	QPSK 1_1	462000/2310	1:1	0.810	-0.15	21.59	22.50	1.233	0.999	22.4
Left side	10	QPSK 1_1	462000/2310	1:1	0.332	0.07	21.59	22.50	1.233	0.409	22.4
Top side	10	QPSK 1_1	462000/2310	1:1	0.741	-0.03	21.59	22.50	1.233	0.914	22.4
Hotspot on Test data (Separate 10mm 50%RB)											
Front side	10	QPSK 25_14	462000/2310	1:1	0.307	-0.12	21.52	22.50	1.253	0.385	22.4
Back side	10	QPSK 25_14	462000/2310	1:1	0.824	-0.10	21.52	22.50	1.253	<b>1.033</b>	22.4
Left side	10	QPSK 25_14	462000/2310	1:1	0.337	0.19	21.52	22.50	1.253	0.422	22.4
Top side	10	QPSK 25_14	462000/2310	1:1	0.727	0.15	21.52	22.50	1.253	0.911	22.4
Hotspot on Test data (Separate 10mm 100%RB)											
Back side	10	QPSK 50_0	462000/2310	1:1	0.699	-0.08	21.49	22.50	1.262	0.882	22.4
Top side	10	QPSK 50_0	462000/2310	1:1	0.679	-0.14	21.49	22.50	1.262	0.857	22.4
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific (Sensor on) 10gSAR Test data (Separate 0mm 1RB)											
Back side	10	QPSK 1_1	462000/2310	1:1	2.180	0.08	22.14	23.00	1.219	<b>2.657</b>	22.4
Back side - Repeat	10	QPSK 1_1	462000/2310	1:1	2.120	0.16	22.14	23.00	1.219	2.584	22.4
Top side	10	QPSK 1_1	462000/2310	1:1	1.320	-0.19	22.14	23.00	1.219	1.609	22.4
Product specific (Sensor on) 10gSAR Test data (Separate 0mm 50%RB)											
Back side	10	QPSK 25_14	462000/2310	1:1	2.160	0.07	22.08	23.00	1.236	2.670	22.4
Top side	10	QPSK 25_14	462000/2310	1:1	1.380	0.06	22.08	23.00	1.236	1.706	22.4
Product specific (Sensor on) 10gSAR Test data (Separate 0mm 100%RB)											
Back side	10	QPSK 50_0	462000/2310	1:1	1.680	-0.16	22.02	23.00	1.253	2.105	22.4
Product specific (Sensor off) 10gSAR Test data											



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Back side-18mm	10	QPSK 1_1	462000/2310	1:1	0.200	-0.16	23.82	25.00	1.312	0.262	22.4
Top side-17mm	10	QPSK 25_14	462000/2310	1:1	0.234	-0.18	23.59	25.00	1.384	0.324	22.4

Table 26: SAR of 5G NR n30 for Head and Body.

Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	462000/2310	0.909	0.892	1.019058296	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  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

Test Position	Channel/ Frequency	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Back side	462000/2310	2.18	2.12	1.028301887	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 2.0$  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  $\geq 3.63$  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  $\geq 3.75$  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  $< 2.0$  W/kg



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9.2.17 SAR Result of 5G NR n41

SA N41 SAR Test Record											
Ant3 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test data(1RB)											
Left cheek	100	QPSK 1_1	518598/2592.99	1:1	0.447	-0.08	18.20	19.00	1.202	0.537	22.2
Left tilted	100	QPSK 1_1	518598/2592.99	1:1	0.266	-0.04	18.20	19.00	1.202	0.320	22.2
Right cheek	100	QPSK 1_1	518598/2592.99	1:1	0.905	-0.03	18.20	19.00	1.202	1.088	22.2
Right tilted	100	QPSK 1_1	518598/2592.99	1:1	0.740	0.05	18.20	19.00	1.202	0.890	22.2
Head (Receiver on) Test data(50%RB)											
Left cheek	100	QPSK 135_69	518598/2592.99	1:1	0.494	-0.07	18.11	19.00	1.227	0.606	22.2
Left tilted	100	QPSK 135_69	518598/2592.99	1:1	0.281	0.09	18.11	19.00	1.227	0.345	22.2
Right cheek PC3&PC2	100	QPSK 135_69	518598/2592.99	1:1	0.971	0.02	18.11	19.00	1.227	<b>1.192</b>	22.2
Right cheek PC3&PC2 - Repeat	100	QPSK 135_69	518598/2592.99	1:1	0.966	0.04	18.11	19.00	1.227	1.186	22.2
Right tilted	100	QPSK 135_69	518598/2592.99	1:1	0.805	-0.12	18.11	19.00	1.227	0.988	22.2
Head (Receiver on) Test data(100%RB)											
Right cheek	100	QPSK 270_0	518598/2592.99	1:1	0.894	-0.01	18.05	1.00	0.020	0.018	22.2
Right tilted	100	QPSK 270_0	518598/2592.99	1:1	0.669	0.14	18.05	1.00	0.020	0.013	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.247	0.04	22.59	23.00	1.099	0.271	22.2
Back side PC3	100	QPSK 1_1	518598/2592.99	1:1	0.543	0.02	22.59	23.00	1.099	0.597	22.2
Back side PC2	100	QPSK 1_1	518598/2592.99	1:1	0.688	-0.05	25.52	26.00	1.117	<b>0.768</b>	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.253	0.01	22.55	23.00	1.109	0.281	22.2
Back side	100	QPSK 135_69	518598/2592.99	1:1	0.513	-0.08	22.55	23.00	1.109	0.569	22.2
Hotspot on Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	518598/2592.99	1:1	0.351	-0.17	20.62	21.50	1.225	0.430	22.2
Back side	100	QPSK 1_1	518598/2592.99	1:1	0.824	0.19	20.62	21.50	1.225	1.009	22.2
Left side	100	QPSK 1_1	518598/2592.99	1:1	0.475	-0.11	20.62	21.50	1.225	0.582	22.2
Top side	100	QPSK 1_1	518598/2592.99	1:1	0.566	0.17	20.62	21.50	1.225	0.693	22.2
Hotspot on Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	518598/2592.99	1:1	0.348	-0.16	20.54	21.50	1.247	0.434	22.2
Back side PC3&PC2	100	QPSK 135_69	518598/2592.99	1:1	0.845	0.18	20.54	21.50	1.247	<b>1.054</b>	22.2
Left side	100	QPSK 135_69	518598/2592.99	1:1	0.431	0.10	20.54	21.50	1.247	0.538	22.2
Top side	100	QPSK 135_69	518598/2592.99	1:1	0.550	0.07	20.54	21.50	1.247	0.686	22.2
Hotspot on Test data (Separate 10mm 100%RB)											
Back side	100	QPSK 270_0	518598/2592.99	1:1	0.764	0.09	20.46	21.50	1.271	0.971	22.2
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific 10g SAR Test data (Separate 0mm 1RB)											
Back side PC3&PC2	100	QPSK 1_1	518598/2592.99	1:1	2.690	0.08	22.59	23.00	1.099	<b>2.956</b>	22.2
Back side PC3&PC2 - Repeat	100	QPSK 1_1	518598/2592.99	1:1	2.610	0.04	22.59	23.00	1.099	2.868	22.2
Product specific 10g SAR Test data (Separate 0mm 50%RB)											
Back side	100	QPSK 135_69	518598/2592.99	1:1	2.400	0.14	22.55	23.00	1.109	2.662	22.2

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

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Right cheek	518598/2592.99	0.971	0.966	1.005175983	N/A	N/A

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



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- 2) A second repeated measurement was 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  $\geq 1.45$  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  $\geq 1.5$  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

Test Position	Channel/ Frequency	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Back side	518598/2592.99	2.69	2.61	1.030651341	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 2.0$  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  $\geq 3.63$  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  $\geq 3.75$  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 < 2.0 W/kg

### 9.2.18 SAR Result of 5G NR n66

SA N66 SAR Test Record											
Ant3 Test Record											
Test position	BW	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test data(1RB)											
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.570	-0.19	17.09	18.00	1.233	0.703	22.2
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.604	0.19	17.09	18.00	1.233	0.745	22.2
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.809	-0.16	17.09	18.00	1.233	0.998	22.2
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.871	-0.10	17.09	18.00	1.233	1.074	22.2
Head (Receiver on) Test data(50%RB)											
Left cheek	40	QPSK 108_54	349000/1745	1:1	0.587	0.06	17.05	18.00	1.245	0.731	22.2
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.618	0.01	17.05	18.00	1.245	0.769	22.2
Right cheek	40	QPSK 108_54	349000/1745	1:1	0.850	-0.06	17.05	18.00	1.245	1.058	22.2
Right tilted	40	QPSK 108_54	349000/1745	1:1	0.891	0.03	17.05	18.00	1.245	1.109	22.2
Right tilted - Repeat	40	QPSK 108_54	349000/1745	1:1	0.886	0.01	17.05	18.00	1.245	1.103	22.2
Head (Receiver on) Test data(100%RB)											
Right cheek	40	QPSK 216_0	349000/1745	1:1	0.754	0.05	17.02	18.00	1.253	0.945	22.2
Right tilted	40	QPSK 216_0	349000/1745	1:1	0.843	0.11	17.02	18.00	1.253	1.056	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	1:1	0.519	-0.04	23.74	25.00	1.337	0.694	22.2
Back side	40	QPSK 1_1	349000/1745	1:1	0.659	0.03	23.74	25.00	1.337	0.881	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	1:1	0.556	0.07	23.66	25.00	1.361	0.757	22.2
Back side	40	QPSK 108_54	349000/1745	1:1	0.669	0.10	23.66	25.00	1.361	0.911	22.2
Hotspot on Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	1:1	0.391	-0.02	21.13	22.00	1.222	0.478	22.2
Back side	40	QPSK 1_1	349000/1745	1:1	0.495	0.08	21.13	22.00	1.222	0.605	22.2
Left side	40	QPSK 1_1	349000/1745	1:1	0.137	0.11	21.13	22.00	1.222	0.167	22.2
Right side	40	QPSK 1_1	349000/1745	1:1	0.063	-0.10	21.13	22.00	1.222	0.077	22.2
Top side	40	QPSK 1_1	349000/1745	1:1	0.589	-0.18	21.13	22.00	1.222	0.720	22.2
Hotspot on Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	1:1	0.396	-0.18	21.09	22.00	1.233	0.488	22.2
Back side	40	QPSK 108_54	349000/1745	1:1	0.553	-0.18	21.09	22.00	1.233	0.682	22.2
Left side	40	QPSK 108_54	349000/1745	1:1	0.149	-0.03	21.09	22.00	1.233	0.184	22.2
Right side	40	QPSK 108_54	349000/1745	1:1	0.070	-0.06	21.09	22.00	1.233	0.086	22.2



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Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Top side	40	QPSK 108_54	349000/1745	1:1	0.625	0.17	21.09	22.00	1.233	0.771	22.2
Hotspot on Test data (Separate 10mm 100%RB)											
Top side	40	QPSK 216_0	349000/1745	1:1	0.544	-0.19	21.05	22.00	1.245	0.677	22.2
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	1:1	1.610	-0.04	23.20	24.00	1.202	1.936	22.2
Back side	40	QPSK 1_1	349000/1745	1:1	1.910	0.06	23.20	24.00	1.202	2.296	22.2
Top side	40	QPSK 1_1	349000/1745	1:1	2.280	0.08	23.20	24.00	1.202	2.741	22.2
Top side - Repeat	40	QPSK 1_1	349000/1745	1:1	2.210	0.04	23.20	24.00	1.202	2.657	22.2
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	1:1	1.790	0.10	23.13	24.00	1.222	2.187	22.2
Back side	40	QPSK 108_54	349000/1745	1:1	2.190	0.02	23.13	24.00	1.222	2.676	22.2
Top side	40	QPSK 108_54	349000/1745	1:1	2.200	-0.18	23.13	24.00	1.222	2.688	22.2
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 100%RB)											
Front side	40	QPSK 216_0	349000/1745	1:1	1.470	-0.03	23.10	24.00	1.230	1.808	22.2
Back side	40	QPSK 216_0	349000/1745	1:1	1.670	-0.07	23.10	24.00	1.230	2.055	22.2
Top side	40	QPSK 216_0	349000/1745	1:1	2.050	0.04	23.10	24.00	1.230	2.522	22.2
Product specific (Sensor off) 10g SAR Test data											
Front side-5mm	40	QPSK 108_54	349000/1745	1:1	0.804	-0.17	23.66	25.00	1.361	1.095	22.2
Back side-19mm	40	QPSK 108_54	349000/1745	1:1	0.196	-0.02	23.66	25.00	1.361	0.267	22.2
Top side-18mm	40	QPSK 1_1	349000/1745	1:1	0.249	0.09	23.74	25.00	1.337	0.333	22.2
Ant2 Test Record for ENDC											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	40	QPSK 1_1	349000/1745	1:1	0.085	-0.13	23.64	25.00	1.368	0.116	22.2
Left tilted	40	QPSK 1_1	349000/1745	1:1	0.102	0.12	23.64	25.00	1.368	0.140	22.2
Right cheek	40	QPSK 1_1	349000/1745	1:1	0.134	-0.13	23.64	25.00	1.368	0.183	22.2
Right tilted	40	QPSK 1_1	349000/1745	1:1	0.142	-0.02	23.64	25.00	1.368	0.194	22.2
Head Test data(50%RB)											
Left cheek	40	QPSK 108_54	349000/1745	1:1	0.095	0.03	23.62	25.00	1.374	0.131	22.2
Left tilted	40	QPSK 108_54	349000/1745	1:1	0.113	0.19	23.62	25.00	1.374	0.155	22.2
Right cheek	40	QPSK 108_54	349000/1745	1:1	0.143	-0.15	23.62	25.00	1.374	0.196	22.2
Right tilted	40	QPSK 108_54	349000/1745	1:1	0.162	-0.15	23.62	25.00	1.374	0.223	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	1:1	0.084	0.15	23.64	25.00	1.368	0.115	22.2
Back side	40	QPSK 1_1	349000/1745	1:1	0.240	0.05	23.64	25.00	1.368	0.328	22.2
Body worn Test data (Separate 15mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	1:1	0.070	0.18	23.62	25.00	1.374	0.096	22.2
Back side	40	QPSK 108_54	349000/1745	1:1	0.216	0.06	23.62	25.00	1.374	0.297	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	40	QPSK 1_1	349000/1745	1:1	0.133	0.06	23.64	25.00	1.368	0.182	22.2
Back side	40	QPSK 1_1	349000/1745	1:1	0.470	0.04	23.64	25.00	1.368	0.643	22.2
Left side	40	QPSK 1_1	349000/1745	1:1	0.326	-0.10	23.64	25.00	1.368	0.446	22.2
Top side	40	QPSK 1_1	349000/1745	1:1	0.107	0.02	23.64	25.00	1.368	0.146	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	40	QPSK 108_54	349000/1745	1:1	0.123	-0.14	23.62	25.00	1.374	0.169	22.2
Back side	40	QPSK 108_54	349000/1745	1:1	0.455	0.01	23.62	25.00	1.374	0.625	22.2
Left side	40	QPSK 108_54	349000/1745	1:1	0.285	0.15	23.62	25.00	1.374	0.392	22.2
Top side	40	QPSK 108_54	349000/1745	1:1	0.105	-0.09	23.62	25.00	1.374	0.144	22.2

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



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Test Position	Channel/ Frequency	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (1g)		SAR (1g)	SAR (1g)
Right tilted	349000/1745	0.891	0.886	1.005643341	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  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

Test Position	Channel/ Frequency	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)		SAR (10g)		SAR (10g)	SAR (10g)
Top side	349000/1745	2.28	2.21	1.031674208	N/A	N/A

- Note: 1) When the original highest measured SAR is  $\geq 2.0$  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  $\geq 3.63$  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  $\geq 3.75$  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  $< 2.0$  W/kg

### 9.2.19 SAR Result of 5G NR n70

SA N70 SAR Test Record												
Ant3 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head (Receiver on) Test data(1RB)												
Left cheek	15	QPSK 1_1	340500/1702.5	1:1	0.460	-0.12	18.66	19.50	1.213	0.558	22.2	
Left tilted	15	QPSK 1_1	340500/1702.5	1:1	0.496	-0.04	18.66	19.50	1.213	0.602	22.2	
Right cheek	15	QPSK 1_1	340500/1702.5	1:1	0.670	-0.01	18.66	19.50	1.213	0.813	22.2	
Right tilted	15	QPSK 1_1	340500/1702.5	1:1	0.715	0.14	18.66	19.50	1.213	0.868	22.2	
Head (Receiver on) Test data(50%RB)												
Left cheek	15	QPSK 36_22	340500/1702.5	1:1	0.499	0.14	18.58	19.50	1.236	0.617	22.2	
Left tilted	15	QPSK 36_22	340500/1702.5	1:1	0.517	0.07	18.58	19.50	1.236	0.639	22.2	
Right cheek	15	QPSK 36_22	340500/1702.5	1:1	0.688	-0.10	18.58	19.50	1.236	0.850	22.2	
Right tilted	15	QPSK 36_22	340500/1702.5	1:1	0.730	0.05	18.58	19.50	1.236	<b>0.902</b>	22.2	
Head (Receiver on) Test data(100%RB)												
Right cheek	15	QPSK 75_0	340500/1702.5	1:1	0.610	-0.10	18.52	19.50	1.253	0.764	22.2	
Right tilted	15	QPSK 75_0	340500/1702.5	1:1	0.676	0.05	18.52	19.50	1.253	0.847	22.2	
Body worn Test data(Separate 15mm 1RB)												
Front side	15	QPSK 1_1	340500/1702.5	1:1	0.309	0.11	23.55	24.50	1.245	0.385	22.2	
Back side	15	QPSK 1_1	340500/1702.5	1:1	0.422	-0.03	23.55	24.50	1.245	0.525	22.2	
Body worn Test data (Separate 15mm 50%RB)												
Front side	15	QPSK 36_22	340500/1702.5	1:1	0.311	0.02	23.48	24.50	1.265	0.393	22.2	
Back side	15	QPSK 36_22	340500/1702.5	1:1	0.453	0.01	23.48	24.50	1.265	<b>0.573</b>	22.2	
Hotspot on Test data(Separate 10mm 1RB)												
Front side	15	QPSK 1_1	340500/1702.5	1:1	0.529	-0.16	23.11	24.00	1.227	0.649	22.2	
Back side	15	QPSK 1_1	340500/1702.5	1:1	0.785	-0.14	23.11	24.00	1.227	0.964	22.2	
Left side	15	QPSK 1_1	340500/1702.5	1:1	0.250	-0.13	23.11	24.00	1.227	0.307	22.2	
Right side	15	QPSK 1_1	340500/1702.5	1:1	0.103	0.06	23.11	24.00	1.227	0.126	22.2	
Top side	15	QPSK 1_1	340500/1702.5	1:1	0.757	-0.01	23.11	24.00	1.227	0.929	22.2	



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Hotspot on Test data (Separate 10mm 50%RB)											
Front side	15	QPSK 36_22	340500/1702.5	1:1	0.491	-0.05	23.04	24.00	1.247	0.612	22.2
Back side	15	QPSK 36_22	340500/1702.5	1:1	0.788	0.02	23.04	24.00	1.247	<b>0.983</b>	22.2
Left side	15	QPSK 36_22	340500/1702.5	1:1	0.283	0.11	23.04	24.00	1.247	0.353	22.2
Right side	15	QPSK 36_22	340500/1702.5	1:1	0.105	0.07	23.04	24.00	1.247	0.131	22.2
Top side	15	QPSK 36_22	340500/1702.5	1:1	0.778	0.07	23.04	24.00	1.247	0.970	22.2
Hotspot on Test data (Separate 10mm 100%RB)											
Back side	15	QPSK 75_0	340500/1702.5	1:1	0.755	0.09	22.52	23.50	1.253	0.946	22.2
Top side	15	QPSK 75_0	340500/1702.5	1:1	0.730	0.17	22.52	23.50	1.253	0.915	22.2

Table 29: SAR of 5G NR n70 for Head and Body.

### 9.2.20 SAR Result of 5G NR n71

SA N71 SAR Test Record											
Ant0 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data(1RB)											
Left cheek	20	QPSK 1_1	136100/680.5	1:1	0.168	-0.03	23.65	25.00	1.365	0.229	22.2
Left tilted	20	QPSK 1_1	136100/680.5	1:1	0.118	0.16	23.65	25.00	1.365	0.161	22.2
Right cheek	20	QPSK 1_1	136100/680.5	1:1	0.226	0.05	23.65	25.00	1.365	0.308	22.2
Right tilted	20	QPSK 1_1	136100/680.5	1:1	0.134	-0.16	23.65	25.00	1.365	0.183	22.2
Head Test data(50%RB)											
Left cheek	20	QPSK 50_28	136100/680.5	1:1	0.196	0.04	23.61	25.00	1.377	0.270	22.2
Left tilted	20	QPSK 50_28	136100/680.5	1:1	0.135	-0.10	23.61	25.00	1.377	0.186	22.2
Right cheek	20	QPSK 50_28	136100/680.5	1:1	0.257	0.03	23.61	25.00	1.377	<b>0.354</b>	22.2
Right tilted	20	QPSK 50_28	136100/680.5	1:1	0.136	0.09	23.61	25.00	1.377	0.187	22.2
Body worn Test data(Separate 15mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	1:1	0.245	-0.01	23.65	25.00	1.365	0.334	22.2
Back side	20	QPSK 1_1	136100/680.5	1:1	0.344	0.04	23.65	25.00	1.365	0.469	22.2
Body worn Test data(Separate 15mm 50%RB)											
Front side	20	QPSK 50_28	136100/680.5	1:1	0.270	0.19	23.61	25.00	1.377	0.372	22.2
Back side	20	QPSK 50_28	136100/680.5	1:1	0.370	0.06	23.61	25.00	1.377	<b>0.510</b>	22.2
Hotspot Test data(Separate 10mm 1RB)											
Front side	20	QPSK 1_1	136100/680.5	1:1	0.279	0.10	23.65	25.00	1.365	0.381	22.2
Back side	20	QPSK 1_1	136100/680.5	1:1	0.441	0.09	23.65	25.00	1.365	0.602	22.2
Left side	20	QPSK 1_1	136100/680.5	1:1	0.000	0.00	23.65	25.00	1.365	0.000	22.2
Right side	20	QPSK 1_1	136100/680.5	1:1	0.055	0.16	23.65	25.00	1.365	0.075	22.2
Bottom side	20	QPSK 1_1	136100/680.5	1:1	0.266	0.03	23.65	25.00	1.365	0.363	22.2
Hotspot Test data (Separate 10mm 50%RB)											
Front side	20	QPSK 50_28	136100/680.5	1:1	0.297	-0.03	23.61	25.00	1.377	0.409	22.2
Back side	20	QPSK 50_28	136100/680.5	1:1	0.463	-0.05	23.61	25.00	1.377	<b>0.638</b>	22.2
Left side	20	QPSK 50_28	136100/680.5	1:1	0.000	0.00	23.61	25.00	1.377	0.000	22.2
Right side	20	QPSK 50_28	136100/680.5	1:1	0.044	0.01	23.61	25.00	1.377	0.061	22.2
Bottom side	20	QPSK 50_28	136100/680.5	1:1	0.316	0.08	23.61	25.00	1.377	0.435	22.2

Table 30: SAR of 5G NR n71 for Head and Body.



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9.2.21 SAR Result of 5G NR n48

SA N48 SAR Test Record												
Ant4 Test Record												
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)	
Head (Receiver on) Test data(1RB)												
Left cheek	40	QPSK 1_1	641666/3624.99	1:1	0.849	0.14	17.21	18.00	1.199	1.018	22.1	
Left cheek	40	QPSK 1_1	638000/3570	1:1	0.763	-0.13	17.14	18.00	1.219	0.930	22.1	
Left cheek	40	QPSK 1_1	645332/3679.98	1:1	0.810	0.11	17.19	18.00	1.205	0.976	22.1	
Left tilted	40	QPSK 1_1	641666/3624.99	1:1	0.715	-0.18	17.21	18.00	1.199	0.858	22.1	
Left tilted	40	QPSK 1_1	638000/3570	1:1	0.637	-0.06	17.14	18.00	1.219	0.776	22.1	
Left tilted	40	QPSK 1_1	645332/3679.98	1:1	0.667	0.17	17.19	18.00	1.205	0.804	22.1	
Right cheek	40	QPSK 1_1	641666/3624.99	1:1	0.625	0.05	17.21	18.00	1.199	0.750	22.1	
Right tilted	40	QPSK 1_1	641666/3624.99	1:1	0.577	0.15	17.21	18.00	1.199	0.692	22.1	
Head (Receiver on) Test data(50%RB)												
Left cheek	40	QPSK 50_28	641666/3624.99	1:1	0.831	-0.18	17.16	18.00	1.213	1.008	22.1	
Left cheek	40	QPSK 50_28	638000/3570	1:1	0.745	0.06	17.10	18.00	1.230	0.917	22.1	
Left cheek	40	QPSK 50_28	645332/3679.98	1:1	0.786	-0.01	17.13	18.00	1.222	0.960	22.1	
Left tilted	40	QPSK 50_28	641666/3624.99	1:1	0.921	-0.01	17.16	18.00	1.213	<b>1.118</b>	22.1	
Left tilted	40	QPSK 50_28	638000/3570	1:1	0.783	-0.07	17.10	18.00	1.230	0.963	22.1	
Left tilted	40	QPSK 50_28	645332/3679.98	1:1	0.840	0.02	17.13	18.00	1.222	1.026	22.1	
Left tilted - Repeat	40	QPSK 50_28	641666/3624.99	1:1	0.908	0.09	17.16	18.00	1.213	1.102	22.1	
Right cheek	40	QPSK 50_28	641666/3624.99	1:1	0.604	-0.14	17.16	18.00	1.213	0.733	22.1	
Right tilted	40	QPSK 50_28	641666/3624.99	1:1	0.577	-0.10	17.16	18.00	1.213	0.700	22.1	
Head (Receiver on) Test data(100%RB)												
Left cheek	40	QPSK 100_0	641666/3624.99	1:1	0.763	-0.12	17.09	18.00	1.233	0.941	22.1	
Left tilted	40	QPSK 100_0	641666/3624.99	1:1	0.691	-0.10	17.09	18.00	1.233	0.852	22.1	
Body worn Test data(Separate 15mm 1RB)												
Front side	40	QPSK 1_1	641666/3624.99	1:1	0.227	0.02	23.24	24.50	1.337	0.303	22.1	
Back side	40	QPSK 1_1	641666/3624.99	1:1	0.436	-0.03	23.24	24.50	1.337	0.583	22.1	
Body worn Test data(Separate 15mm 50%RB)												
Front side	40	QPSK 50_28	641666/3624.99	1:1	0.249	0.03	23.23	24.50	1.340	0.334	22.1	
Back side	40	QPSK 50_28	641666/3624.99	1:1	0.442	0.01	23.23	24.50	1.340	<b>0.592</b>	22.1	
Hotspot on Test data(Separate 10mm 1RB)												
Front side	40	QPSK 1_1	641666/3624.99	1:1	0.524	-0.01	22.71	23.50	1.199	0.629	22.1	
Back side	40	QPSK 1_1	641666/3624.99	1:1	0.897	0.07	22.71	23.50	1.199	<b>1.076</b>	22.1	
Back side	40	QPSK 1_1	638000/3570	1:1	0.717	-0.12	22.63	23.50	1.222	0.876	22.1	
Back side	40	QPSK 1_1	645332/3679.98	1:1	0.817	-0.16	22.66	23.50	1.213	0.991	22.1	
Left side	40	QPSK 1_1	641666/3624.99	1:1	0.284	0.19	22.71	23.50	1.199	0.341	22.1	
Right side	40	QPSK 1_1	641666/3624.99	1:1	0.315	0.18	22.71	23.50	1.199	0.378	22.1	
Top side	40	QPSK 1_1	641666/3624.99	1:1	0.832	-0.18	22.71	23.50	1.199	0.998	22.1	
Top side	40	QPSK 1_1	638000/3570	1:1	0.645	0.08	22.63	23.50	1.222	0.788	22.1	
Top side	40	QPSK 1_1	645332/3679.98	1:1	0.760	-0.14	22.66	23.50	1.213	0.922	22.1	
Hotspot on Test data (Separate 10mm 50%RB)												
Front side	40	QPSK 50_28	641666/3624.99	1:1	0.430	0.12	22.69	23.50	1.205	0.518	22.1	
Back side	40	QPSK 50_28	641666/3624.99	1:1	0.803	-0.16	22.69	23.50	1.205	0.968	22.1	
Back side	40	QPSK 50_28	638000/3570	1:1	0.645	0.12	22.60	23.50	1.230	0.794	22.1	
Back side	40	QPSK 50_28	645332/3679.98	1:1	0.675	-0.07	22.59	23.50	1.233	0.832	22.1	
Left side	40	QPSK 50_28	641666/3624.99	1:1	0.224	-0.02	22.69	23.50	1.205	0.270	22.1	
Right side	40	QPSK 50_28	641666/3624.99	1:1	0.180	0.16	22.69	23.50	1.205	0.217	22.1	
Top side	40	QPSK 50_28	641666/3624.99	1:1	0.550	0.04	22.69	23.50	1.205	0.663	22.1	
Hotspot on Test data (Separate 10mm 100%RB)												
Back side	40	QPSK 100_0	641666/3624.99	1:1	0.745	0.17	22.56	23.50	1.242	0.925	22.1	



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Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg)10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 1RB)											
Top side	40	QPSK 100_0	641666/3624.99	1:1	0.637	0.08	22.56	23.50	1.242	0.791	22.1
Back side	40	QPSK 1_1	641666/3624.99	1:1	2.360	0.01	20.62	21.50	1.225	2.890	22.1
Back side	40	QPSK 1_1	638000/3570	1:1	2.240	0.06	20.54	21.50	1.247	2.794	22.1
Back side	40	QPSK 1_1	645332/3679.98	1:1	2.290	-0.11	20.57	21.50	1.239	2.837	22.1
Back side - Repeat	40	QPSK 1_1	641666/3624.99	1:1	2.290	0.02	20.62	21.50	1.225	2.804	22.1
Top side	40	QPSK 1_1	641666/3624.99	1:1	1.010	0.19	20.62	21.50	1.225	1.237	22.1
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 50%RB)											
Back side	40	QPSK 50_28	641666/3624.99	1:1	2.040	0.11	20.55	21.50	1.245	2.539	22.1
Back side	40	QPSK 50_28	638000/3570	1:1	1.960	0.04	20.51	21.50	1.256	2.462	22.1
Back side	40	QPSK 50_28	645332/3679.98	1:1	1.990	-0.01	20.53	21.50	1.250	2.488	22.1
Top side	40	QPSK 50_28	641666/3624.99	1:1	1.140	0.10	20.55	21.50	1.245	1.419	22.1
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 100%RB)											
Back side	40	QPSK 100_0	641666/3624.99	1:1	1.970	-0.03	20.52	21.50	1.253	2.469	22.1
Product specific (Sensor off) 10g SAR Test data											
Back side-18mm	40	QPSK 1_1	641666/3624.99	1:1	0.165	0.01	23.24	24.50	1.337	0.221	22.1
Top side-17mm	40	QPSK 50_28	641666/3624.99	1:1	0.237	0.05	23.23	24.50	1.340	0.318	22.1

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

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Left tilted	641666/3624.99	0.921	0.908	1.014317181	N/A	N/A

Note: 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  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

Test Position	Channel/ Frequency (MHz)	Measured SAR (10g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (10g)		SAR (10g)	SAR (10g)
Back side	641666/3624.99	2.36	2.29	1.030567686	N/A	N/A

Note: 1) When the original highest measured SAR is  $\geq 2.0$  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  $\geq 3.63$  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  $\geq 3.75$  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  $< 2.0$  W/kg



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

SA N77 SAR Test Record											
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test data(1RB)											
Left cheek	100	QPSK 1_1	633334/3500	1:1	0.897	0.07	16.69	17.50	1.205	1.081	22.3
Left tilted	100	QPSK 1_1	633334/3500	1:1	0.862	0.16	16.69	17.50	1.205	1.039	22.3
Right cheek	100	QPSK 1_1	633334/3500	1:1	0.656	0.06	16.69	17.50	1.205	0.791	22.3
Right tilted	100	QPSK 1_1	633334/3500	1:1	0.611	0.18	16.69	17.50	1.205	0.736	22.3
Head (Receiver on) Test data(50%RB)											
Left cheek PC3&PC2	100	QPSK 135_69	633334/3500	1:1	0.911	-0.07	16.68	17.50	1.208	1.100	22.3
Left tilted	100	QPSK 135_69	633334/3500	1:1	0.883	-0.07	16.68	17.50	1.208	1.066	22.3
Right cheek	100	QPSK 135_69	633334/3500	1:1	0.695	0.17	16.68	17.50	1.208	0.839	22.3
Right tilted	100	QPSK 135_69	633334/3500	1:1	0.623	0.02	16.68	17.50	1.208	0.752	22.3
Head (Receiver on) Test data(100%RB)											
Left cheek	100	QPSK 270_0	633334/3500	1:1	0.827	-0.09	16.52	17.50	1.253	1.036	22.3
Left tilted	100	QPSK 270_0	633334/3500	1:1	0.771	0.18	16.52	17.50	1.253	0.966	22.3
Right cheek	100	QPSK 270_0	633334/3500	1:1	0.541	-0.19	16.52	17.50	1.253	0.678	22.3
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.230	0.02	23.59	24.50	1.233	0.284	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.415	0.01	23.59	24.50	1.233	0.512	22.3
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.243	0.03	23.56	24.50	1.242	0.302	22.3
Back side PC3	100	QPSK 135_69	633334/3500	1:1	0.428	-0.01	23.56	24.50	1.242	0.531	22.3
Back side PC2	100	QPSK 135_69	633334/3500	1:1	0.706	0.03	26.37	27.50	1.297	0.916	22.3
Body worn Test data(Separate 15mm 100%RB)											
Back side PC2	100	QPSK 270_0	633334/3500	1:1	0.593	0.02	25.38	26.50	1.294	0.767	22.3
Hotspot on Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	633334/3500	1:1	0.423	-0.19	21.73	22.50	1.194	0.505	22.3
Back side	100	QPSK 1_1	633334/3500	1:1	0.891	-0.16	21.73	22.50	1.194	1.064	22.3
Left side	100	QPSK 1_1	633334/3500	1:1	0.144	-0.03	21.73	22.50	1.194	0.172	22.3
Right side	100	QPSK 1_1	633334/3500	1:1	0.266	0.10	21.73	22.50	1.194	0.318	22.3
Top side	100	QPSK 1_1	633334/3500	1:1	0.779	-0.05	21.73	22.50	1.194	0.930	22.3
Hotspot on Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	633334/3500	1:1	0.505	-0.04	21.67	22.50	1.211	0.611	22.3
Back side PC3&PC2	100	QPSK 135_69	633334/3500	1:1	0.982	0.01	21.67	22.50	1.211	1.189	22.3
Back side PC3&PC2 - Repeat	100	QPSK 135_69	633334/3500	1:1	0.974	0.03	21.67	22.50	1.211	1.179	22.3
Left side	100	QPSK 135_69	633334/3500	1:1	0.177	-0.06	21.67	22.50	1.211	0.214	22.3
Right side	100	QPSK 135_69	633334/3500	1:1	0.457	-0.08	21.67	22.50	1.211	0.553	22.3
Top side	100	QPSK 135_69	633334/3500	1:1	0.925	-0.02	21.67	22.50	1.211	1.120	22.3
Hotspot on Test data (Separate 10mm 100%RB)											
Back side	100	QPSK 270_0	633334/3500	1:1	0.786	0.02	21.56	22.50	1.242	0.976	22.3
Top side	100	QPSK 270_0	633334/3500	1:1	0.689	0.04	21.56	22.50	1.242	0.855	22.3
Test position	BW.	Test mode	Test Ch./Freq.	Duty Cycle	SAR (W/kg) 10-g	Power Drift(dB)	Conducted power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled 10-g SAR(W/kg)	Liquid Temp.
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 1RB)											
Back side	100	QPSK 1_1	633334/3500	1:1	1.940	-0.11	19.72	20.50	1.197	2.322	22.3
Top side	100	QPSK 1_1	633334/3500	1:1	0.841	-0.06	19.72	20.50	1.197	1.006	22.3
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 50%RB)											
Back side PC3&PC2	100	QPSK 135_69	633334/3500	1:1	1.990	0.01	19.60	20.50	1.230	2.448	22.3



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Top side	100	QPSK 135_69	633334/3500	1:1	0.871	-0.13	19.60	20.50	1.230	1.072	22.3
Product specific (Sensor on) 10g SAR Test data (Separate 0mm 100%RB)											
Back side	100	QPSK 270_0	633334/3500	1:1	1.910	0.04	19.54	20.50	1.247	2.383	22.3
Product specific (Sensor off) 10g SAR Test data											
Back side-18mm	100	QPSK 135_69	633334/3500	1:1	0.184	-0.10	23.56	24.50	1.242	0.228	22.3
Top side-17mm	100	QPSK 135_69	633334/3500	1:1	0.287	-0.12	23.56	24.50	1.242	0.356	22.3

Table 32: SAR of 5G NR n77(3450~3550) for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Back side	633334/3500	0.982	0.974	1.008213552	N/A	N/A

Note: 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  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

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

SA N77 SAR Test Record											
Ant4 Test Record											
Test position	BW.	Modulation	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test data(1RB)											
Left cheek	100	QPSK 1_1	656000/3840	1:1	0.916	-0.16	17.26	18.00	1.186	1.086	22.4
Left tilted	100	QPSK 1_1	656000/3840	1:1	0.727	0.03	17.26	18.00	1.186	0.862	22.4
Right cheek	100	QPSK 1_1	656000/3840	1:1	0.586	0.05	17.26	18.00	1.186	0.695	22.4
Right tilted	100	QPSK 1_1	656000/3840	1:1	0.572	0.08	17.26	18.00	1.186	0.678	22.4
Head (Receiver on) Test data(50%RB)											
Left cheek PC3&PC2	100	QPSK 135_69	656000/3840	1:1	0.946	-0.19	17.16	18.00	1.213	<b>1.148</b>	22.4
Left cheek PC3&PC2 - Repeat	100	QPSK 135_69	656000/3840	1:1	0.932	0.11	17.16	18.00	1.213	1.131	22.4
Left tilted	100	QPSK 135_69	656000/3840	1:1	0.747	0.12	17.16	18.00	1.213	0.906	22.4
Right cheek	100	QPSK 135_69	656000/3840	1:1	0.603	-0.07	17.16	18.00	1.213	0.732	22.4
Right tilted	100	QPSK 135_69	656000/3840	1:1	0.555	0.06	17.16	18.00	1.213	0.673	22.4
Head (Receiver on) Test data(100%RB)											
Left cheek	100	QPSK 270_0	656000/3840	1:1	0.845	0.17	17.13	18.00	1.222	1.032	22.4
Left tilted	100	QPSK 270_0	656000/3840	1:1	0.683	0.10	17.13	18.00	1.222	0.834	22.4
Body worn Test data(Separate 15mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.244	0.05	23.65	24.50	1.216	0.297	22.4
Back side	100	QPSK 1_1	656000/3840	1:1	0.382	0.01	23.65	24.50	1.216	0.465	22.4
Body worn Test data(Separate 15mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.351	0.02	23.56	24.50	1.242	0.436	22.4
Back side PC3	100	QPSK 135_69	656000/3840	1:1	0.442	0.08	23.56	24.50	1.242	0.549	22.4
Back side PC2	100	QPSK 135_69	656000/3840	1:1	0.929	0.09	26.43	27.50	1.279	<b>1.189</b>	22.4
Body worn Test data(Separate 15mm 100%RB)											
Back side PC2	100	QPSK 270_0	656000/3840	1:1	0.746	0.01	25.33	26.50	1.309	0.977	22.4
Hotspot Test data(Separate 10mm 1RB)											
Front side	100	QPSK 1_1	656000/3840	1:1	0.499	-0.18	23.65	24.50	1.216	0.607	22.4
Back side	100	QPSK 1_1	656000/3840	1:1	0.714	0.13	23.65	24.50	1.216	0.868	22.4
Left side	100	QPSK 1_1	656000/3840	1:1	0.161	0.02	23.65	24.50	1.216	0.196	22.4
Right side	100	QPSK 1_1	656000/3840	1:1	0.127	-0.14	23.65	24.50	1.216	0.154	22.4



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Top side	100	QPSK 1_1	656000/3840	1:1	0.511	0.14	23.65	24.50	1.216	0.621	22.4
Hotspot Test data (Separate 10mm 50%RB)											
Front side	100	QPSK 135_69	656000/3840	1:1	0.739	0.16	23.56	24.50	1.242	0.918	22.4
Back side PC3&PC2	100	QPSK 135_69	656000/3840	1:1	0.891	0.03	23.56	24.50	1.242	<b>1.106</b>	22.4
Left side	100	QPSK 135_69	656000/3840	1:1	0.186	-0.15	23.56	24.50	1.242	0.231	22.4
Right side	100	QPSK 135_69	656000/3840	1:1	0.172	-0.19	23.56	24.50	1.242	0.214	22.4
Top side	100	QPSK 135_69	656000/3840	1:1	0.771	0.04	23.56	24.50	1.242	0.957	22.4
Hotspot Test data (Separate 10mm 100%RB)											
Front side	100	QPSK 270_0	656000/3840	1:1	0.608	-0.15	23.56	24.50	1.242	0.755	22.4
Back side	100	QPSK 270_0	656000/3840	1:1	0.722	0.15	22.59	23.50	1.233	0.890	22.4
Top side	100	QPSK 270_0	656000/3840	1:1	0.572	0.03	22.59	23.50	1.233	0.705	22.4

Table 33: SAR of 5G NR n77(3700~3980) for Head and Body.

Test Position	Channel/ Frequency (MHz)	Measured SAR (1g)	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
			SAR (1g)		SAR (1g)	SAR (1g)
Left cheek	656000/3840	0.946	0.932	1.015021459	N/A	N/A

Note: 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  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  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .  
 4) Repeated measurements are not required when the original highest measured SAR is  $< 0.80$  W/kg



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9.2.24 SAR Result of WIFI 2.4G

Wi-Fi 2.4G SAR Test Record											
Ant5 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test Data											
Left cheek	802.11b	6/2437	100.00%	1.000	0.304	0.02	10.59	11.50	1.233	<b>0.375</b>	22.2
Left tilted	802.11b	6/2437	100.00%	1.000	0.198	0.17	10.59	11.50	1.233	0.244	22.2
Right cheek	802.11b	6/2437	100.00%	1.000	0.109	0.12	10.59	11.50	1.233	0.134	22.2
Right tilted	802.11b	6/2437	100.00%	1.000	0.096	0.02	10.59	11.50	1.233	0.118	22.2
Body worn Test data (Separate 15mm)											
Front side	802.11b	6/2437	100.00%	1.000	0.175	0.14	20.52	21.50	1.253	0.219	22.2
Back side	802.11b	6/2437	100.00%	1.000	0.285	0.04	20.52	21.50	1.253	<b>0.357</b>	22.2
Hotspot Test data (Separate 10mm)											
Front side	802.11b	6/2437	100.00%	1.000	0.182	-0.08	15.88	16.50	1.153	0.210	22.2
Back side	802.11b	6/2437	100.00%	1.000	0.311	0.11	15.88	16.50	1.153	<b>0.359</b>	22.2
Right side	802.11b	6/2437	100.00%	1.000	0.157	0.10	15.88	16.50	1.153	0.181	22.2
Top side	802.11b	6/2437	100.00%	1.000	0.255	0.13	15.88	16.50	1.153	0.294	22.2

Table 34: SAR of WIFI 2.4G for Head and Body.

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



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9.2.25 SAR Result of WIFI 5G

Wi-Fi 5G SAR Test Record											
Ant5 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head (Receiver on) Test data of U-NII-2A											
Left cheek	802.11a	64/5320	97.20%	1.029	0.251	0.08	14.18	15.00	1.208	0.312	22.2
Left tilted	802.11a	64/5320	97.20%	1.029	0.306	0.07	14.18	15.00	1.208	<b>0.380</b>	22.2
Right cheek	802.11a	64/5320	97.20%	1.029	0.187	0.17	14.18	15.00	1.208	0.232	22.2
Right tilted	802.11a	64/5320	97.20%	1.029	0.228	0.11	14.18	15.00	1.208	0.283	22.2
Head (Receiver on) Test data of U-NII-2C											
Left cheek	802.11a	100/5500	97.20%	1.029	0.221	0.01	15.08	15.50	1.102	0.250	22.2
Left tilted	802.11a	100/5500	97.20%	1.029	0.294	0.07	15.08	15.50	1.102	<b>0.333</b>	22.2
Right cheek	802.11a	100/5500	97.20%	1.029	0.195	-0.11	15.08	15.50	1.102	0.221	22.2
Right tilted	802.11a	100/5500	97.20%	1.029	0.231	0.09	15.08	15.50	1.102	0.262	22.2
Head (Receiver on) Test data of U-NII-3											
Left cheek	802.11a	157/5785	97.20%	1.029	0.246	-0.17	15.06	16.00	1.242	0.314	22.2
Left tilted	802.11a	157/5785	97.20%	1.029	0.287	0.01	15.06	16.00	1.242	<b>0.367</b>	22.2
Right cheek	802.11a	157/5785	97.20%	1.029	0.230	-0.11	15.06	16.00	1.242	0.294	22.2
Right tilted	802.11a	157/5785	97.20%	1.029	0.243	0.14	15.06	16.00	1.242	0.310	22.2
Body worn (Sensor on) Test data of U-NII-2A(Separate 15mm)											
Front side	802.11a	64/5320	97.20%	1.029	0.027	-0.09	13.27	14.00	1.183	0.033	22.2
Back side	802.11a	64/5320	97.20%	1.029	0.279	0.01	13.27	14.00	1.183	<b>0.340</b>	22.2
Body worn (Sensor on) Test data of U-NII-2C(Separate 15mm)											
Front side	802.11a	100/5500	97.20%	1.029	0.023	0.15	12.86	13.50	1.159	0.027	22.2
Back side	802.11a	100/5500	97.20%	1.029	0.242	0.02	12.86	13.50	1.159	<b>0.289</b>	22.2
Body worn (Sensor on) Test data of U-NII-3(Separate 15mm)											
Front side	802.11a	157/5785	97.20%	1.029	0.034	-0.04	13.59	14.50	1.233	0.043	22.2
Back side	802.11a	157/5785	97.20%	1.029	0.248	-0.03	13.59	14.50	1.233	<b>0.315</b>	22.2
Hotspot on Test data of U-NII-1(Separate 10mm)											
Front side	802.11a	48/5240	97.20%	1.029	0.024	0.08	11.73	12.50	1.194	0.029	22.2
Back side	802.11a	48/5240	97.20%	1.029	0.285	0.09	11.73	12.50	1.194	<b>0.350</b>	22.2
Right side	802.11a	48/5240	97.20%	1.029	0.077	0.02	11.73	12.50	1.194	0.095	22.2
Top side	802.11a	48/5240	97.20%	1.029	0.175	0.15	11.73	12.50	1.194	0.215	22.2
Hotspot on Test data of U-NII-3(Separate 10mm)											
Front side	802.11a	157/5785	97.20%	1.029	0.033	-0.14	11.68	12.50	1.208	0.041	22.2
Back side	802.11a	157/5785	97.20%	1.029	0.284	0.01	11.68	12.50	1.208	<b>0.353</b>	22.2
Right side	802.11a	157/5785	97.20%	1.029	0.098	-0.10	11.68	12.50	1.208	0.122	22.2
Top side	802.11a	157/5785	97.20%	1.029	0.176	0.01	11.68	12.50	1.208	0.219	22.2
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
Product specific 10gSAR (Sensor on) Test data of U-NII-2A(Separate 0mm)											
Front side	802.11a	64/5320	97.20%	1.029	0.097	-0.09	13.27	14.00	1.183	0.118	22.2
Back side	802.11a	64/5320	97.20%	1.029	0.526	-0.17	13.27	14.00	1.183	0.640	22.2
Right side	802.11a	64/5320	97.20%	1.029	0.128	0.08	13.27	14.00	1.183	0.156	22.2
Top side	802.11a	64/5320	97.20%	1.029	0.603	0.02	13.27	14.00	1.183	<b>0.734</b>	22.2
Product specific 10gSAR (Sensor on) Test data of U-NII-2C(Separate 0mm)											
Front side	802.11a	100/5500	97.20%	1.029	0.091	0.06	12.86	13.50	1.159	0.108	22.2
Back side	802.11a	100/5500	97.20%	1.029	0.589	-0.01	12.86	13.50	1.159	<b>0.702</b>	22.2
Right side	802.11a	100/5500	97.20%	1.029	0.159	0.10	12.86	13.50	1.159	0.190	22.2
Top side	802.11a	100/5500	97.20%	1.029	0.544	0.12	12.86	13.50	1.159	0.649	22.2



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Product specific 10gSAR (Sensor off) Test data											
Front side-9mm	802.11a	64/5320	97.20%	1.029	0.078	0.01	19.06	20.50	1.393	0.112	22.2
Back side-18mm	802.11a	100/5500	97.20%	1.029	0.232	0.02	19.21	20.00	1.199	0.286	22.2
Right side-16mm	802.11a	100/5500	97.20%	1.029	0.103	0.06	19.21	20.00	1.199	0.127	22.2
Top side-18mm	802.11a	64/5320	97.20%	1.029	0.152	0.15	19.06	20.50	1.393	0.218	22.2

Table 35: SAR of WIFI 5G for Head and Body.

Note:

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



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9.2.26 SAR Result of BT

Bluetooth SAR Test Record											
Ant5 Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
Head Test data											
Left cheek	DH5	39/2441	76.80%	1.302	0.148	-0.07	10.53	11.50	1.250	<b>0.241</b>	22.2
Left tilted	DH5	39/2441	76.80%	1.302	0.106	-0.19	10.53	11.50	1.250	0.173	22.2
Right cheek	DH5	39/2441	76.80%	1.302	0.066	-0.14	10.53	11.50	1.250	0.107	22.2
Right tilted	DH5	39/2441	76.80%	1.302	0.056	0.04	10.53	11.50	1.250	0.091	22.2
Body worn Test data(Separate 15mm)											
Front side	DH5	39/2441	76.80%	1.302	0.000	-0.02	10.53	11.50	1.250	0.000	22.2
Back side	DH5	39/2441	76.80%	1.302	0.018	0.17	10.53	11.50	1.250	<b>0.029</b>	22.2
Hotspot Test data (Separate 10mm)											
Front side	DH5	39/2441	76.80%	1.302	0.000	0.02	10.53	11.50	1.250	0.000	22.2
Back side	DH5	39/2441	76.80%	1.302	0.023	0.16	10.53	11.50	1.250	0.037	22.2
Right side	DH5	39/2441	76.80%	1.302	0.018	-0.01	10.53	11.50	1.250	0.029	22.2
Top side	DH5	39/2441	76.80%	1.302	0.025	0.08	10.53	11.50	1.250	<b>0.041</b>	22.2

Table 36: SAR of BT for Head and Body.



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### 9.3 Multiple Transmitter Evaluation

#### 9.3.1 Simultaneous SAR test evaluation

- Simultaneous Transmission Possibilities

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

**Note:**

- 1) The device support DTM function.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.
- 3) NFC is different from the working scenario of WWAN/WIFI(Head/Body-worn/Hotspot) and does not participate in the simultaneous transmission.
- 4) Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required it wireless router 1g SAR(Scaled to the maximum output power ,including tolerance) < 1.2 W/Kg. Therefore, no further analysis beyond tables included in this section was required to determine that possible Simultaneous transmission scenarios would not exceed the SAR limit.



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

Test position		SARmax (W/kg)				Summed SAR		
		Main	WiFi 2.4G Ant5	WiFi 5G Ant5	BT Ant5	1+2	1+3	1+4
		1	2	3	4			
GSM850	Left cheek	0.300	0.375	0.314	0.241	0.675	0.614	0.541
	Left tilted	0.247	0.244	0.380	0.173	0.491	0.627	0.420
	Right cheek	0.435	0.134	0.294	0.107	0.569	0.729	0.542
	Right tilted	0.289	0.118	0.310	0.091	0.407	0.599	0.380
GSM1900	Left cheek	0.363	0.375	0.314	0.241	0.738	0.677	0.604
	Left tilted	0.444	0.244	0.380	0.173	0.688	0.824	0.617
	Right cheek	0.709	0.134	0.294	0.107	0.843	1.003	0.816
	Right tilted	0.892	0.118	0.310	0.091	1.010	1.202	0.983
WCDMA II	Left cheek	0.405	0.375	0.314	0.241	0.780	0.719	0.646
	Left tilted	0.485	0.244	0.380	0.173	0.729	0.865	0.658
	Right cheek	0.685	0.134	0.294	0.107	0.819	0.979	0.792
	Right tilted	0.792	0.118	0.310	0.091	0.910	1.102	0.883
WCDMA V	Left cheek	0.244	0.375	0.314	0.241	0.619	0.558	0.485
	Left tilted	0.183	0.244	0.380	0.173	0.427	0.563	0.356
	Right cheek	0.326	0.134	0.294	0.107	0.460	0.620	0.433
	Right tilted	0.194	0.118	0.310	0.091	0.312	0.504	0.285
LTE B2	Left cheek	0.590	0.375	0.314	0.241	0.965	0.904	0.831
	Left tilted	0.429	0.244	0.380	0.173	0.673	0.809	0.602
	Right cheek	0.991	0.134	0.294	0.107	1.125	1.285	1.098
	Right tilted	0.755	0.118	0.310	0.091	0.873	1.065	0.846
LTE B12	Left cheek	0.127	0.375	0.314	0.241	0.502	0.441	0.368
	Left tilted	0.076	0.244	0.380	0.173	0.320	0.456	0.249
	Right cheek	0.259	0.134	0.294	0.107	0.393	0.553	0.366
	Right tilted	0.131	0.118	0.310	0.091	0.249	0.441	0.222
LTE B14	Left cheek	0.134	0.375	0.314	0.241	0.509	0.448	0.375
	Left tilted	0.081	0.244	0.380	0.173	0.325	0.461	0.254
	Right cheek	0.276	0.134	0.294	0.107	0.410	0.570	0.383
	Right tilted	0.123	0.118	0.310	0.091	0.241	0.433	0.214
LTE B26	Left cheek	0.234	0.375	0.314	0.241	0.609	0.548	0.475
	Left tilted	0.153	0.244	0.380	0.173	0.397	0.533	0.326
	Right cheek	0.293	0.134	0.294	0.107	0.427	0.587	0.400
	Right tilted	0.174	0.118	0.310	0.091	0.292	0.484	0.265
LTE B30	Left cheek	0.804	0.375	0.314	0.241	1.179	1.118	1.045
	Left tilted	0.972	0.244	0.380	0.173	1.216	1.352	1.145
	Right cheek	1.014	0.134	0.294	0.107	1.148	1.308	1.121
	Right tilted	1.120	0.118	0.310	0.091	1.238	1.430	1.211
LTE B48	Left cheek	0.682	0.375	0.314	0.241	1.057	0.996	0.923
	Left tilted	0.646	0.244	0.380	0.173	0.890	1.026	0.819
	Right cheek	0.443	0.134	0.294	0.107	0.577	0.737	0.550
	Right tilted	0.434	0.118	0.310	0.091	0.552	0.744	0.525
LTE B66	Left cheek	0.509	0.375	0.314	0.241	0.884	0.823	0.750
	Left tilted	0.644	0.244	0.380	0.173	0.888	1.024	0.817
	Right cheek	0.979	0.134	0.294	0.107	1.113	1.273	1.086
	Right tilted	1.069	0.118	0.310	0.091	1.187	1.379	1.160
LTE B71	Left cheek	0.132	0.375	0.314	0.241	0.507	0.446	0.373
	Left tilted	0.096	0.244	0.380	0.173	0.340	0.476	0.269
	Right cheek	0.226	0.134	0.294	0.107	0.360	0.520	0.333



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NR n2	Right tilted	0.102	0.118	0.310	0.091	0.220	0.412	0.193
	Left cheek	0.465	0.375	0.314	0.241	0.840	0.779	0.706
	Left tilted	0.545	0.244	0.380	0.173	0.789	0.925	0.718
	Right cheek	0.890	0.134	0.294	0.107	1.024	1.184	0.997
NR n25	Right tilted	0.933	0.118	0.310	0.091	1.051	1.243	1.024
	Left cheek	0.545	0.375	0.314	0.241	0.920	0.859	0.786
	Left tilted	0.592	0.244	0.380	0.173	0.836	0.972	0.765
	Right cheek	1.090	0.134	0.294	0.107	1.224	1.384	1.197
NR n26	Right tilted	1.109	0.118	0.310	0.091	1.227	1.419	1.200
	Left cheek	0.299	0.375	0.314	0.241	0.674	0.613	0.540
	Left tilted	0.236	0.244	0.380	0.173	0.480	0.616	0.409
	Right cheek	0.414	0.134	0.294	0.107	0.548	0.708	0.521
NR n30	Right tilted	0.282	0.118	0.310	0.091	0.400	0.592	0.373
	Left cheek	0.374	0.375	0.314	0.241	0.749	0.688	0.615
	Left tilted	0.449	0.244	0.380	0.173	0.693	0.829	0.622
	Right cheek	1.064	0.134	0.294	0.107	1.198	1.358	1.171
NR n41	Right tilted	1.129	0.118	0.310	0.091	1.247	1.439	1.220
	Left cheek	0.606	0.375	0.314	0.241	0.981	0.920	0.847
	Left tilted	0.345	0.244	0.380	0.173	0.589	0.725	0.518
	Right cheek	1.192	0.134	0.294	0.107	1.326	1.486	1.299
NR n66	Right tilted	0.988	0.118	0.310	0.091	1.106	1.298	1.079
	Left cheek	0.731	0.375	0.314	0.241	1.106	1.045	0.972
	Left tilted	0.769	0.244	0.380	0.173	1.013	1.149	0.942
	Right cheek	1.058	0.134	0.294	0.107	1.192	1.352	1.165
NR n70	Right tilted	1.109	0.118	0.310	0.091	1.227	1.419	1.200
	Left cheek	0.617	0.375	0.314	0.241	0.992	0.931	0.858
	Left tilted	0.639	0.244	0.380	0.173	0.883	1.019	0.812
	Right cheek	0.850	0.134	0.294	0.107	0.984	1.144	0.957
NR n71	Right tilted	0.902	0.118	0.310	0.091	1.020	1.212	0.993
	Left cheek	0.270	0.375	0.314	0.241	0.645	0.584	0.511
	Left tilted	0.186	0.244	0.380	0.173	0.430	0.566	0.359
	Right cheek	0.354	0.134	0.294	0.107	0.488	0.648	0.461
NR n48	Right tilted	0.187	0.118	0.310	0.091	0.305	0.497	0.278
	Left cheek	1.018	0.375	0.314	0.241	1.393	1.332	1.259
	Left tilted	1.118	0.244	0.380	0.173	1.362	1.498	1.291
	Right cheek	0.750	0.134	0.294	0.107	0.884	1.044	0.857
NR n77-3500	Right tilted	0.700	0.118	0.310	0.091	0.818	1.010	0.791
	Left cheek	1.081	0.375	0.314	0.241	1.456	1.395	1.322
	Left tilted	1.066	0.244	0.380	0.173	1.310	1.446	1.239
	Right cheek	0.839	0.134	0.294	0.107	0.973	1.133	0.946
NR n77-3900	Right tilted	0.752	0.118	0.310	0.091	0.870	1.062	0.843
	Left cheek	1.148	0.375	0.314	0.241	1.523	1.462	1.389
	Left tilted	0.906	0.244	0.380	0.173	1.150	1.286	1.079
	Right cheek	0.732	0.134	0.294	0.107	0.866	1.026	0.839
	Right tilted	0.678	0.118	0.310	0.091	0.796	0.988	0.769



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**Simultaneous Transmission SAR Summation Scenario for WLAN Body:  
Body-worn:**

Test position		SARmax (W/kg)				Summed SAR		
		Main	WiFi 2.4G Ant5	WiFi 5G Ant5	BT Ant5			
		1	2	3	4	1+2	1+3	1+4
GSM850	Front side	0.337	0.219	0.043	0.000	0.556	0.380	0.337
	Back side	0.501	0.357	0.340	0.029	0.858	0.841	0.530
GSM1900	Front side	0.440	0.219	0.043	0.000	0.659	0.483	0.440
	Back side	0.701	0.357	0.340	0.029	1.058	1.041	0.730
WCDMA II	Front side	0.721	0.219	0.043	0.000	0.940	0.764	0.721
	Back side	1.037	0.357	0.340	0.029	1.394	1.377	1.066
WCDMA V	Front side	0.266	0.219	0.043	0.000	0.485	0.309	0.266
	Back side	0.339	0.357	0.340	0.029	0.696	0.679	0.368
LTE B2	Front side	0.606	0.219	0.043	0.000	0.825	0.649	0.606
	Back side	0.883	0.357	0.340	0.029	1.240	1.223	0.912
LTE B12	Front side	0.291	0.219	0.043	0.000	0.510	0.334	0.291
	Back side	0.403	0.357	0.340	0.029	0.760	0.743	0.432
LTE B14	Front side	0.268	0.219	0.043	0.000	0.487	0.311	0.268
	Back side	0.357	0.357	0.340	0.029	0.714	0.697	0.386
LTE B26	Front side	0.303	0.219	0.043	0.000	0.522	0.346	0.303
	Back side	0.392	0.357	0.340	0.029	0.749	0.732	0.421
LTE B30	Front side	0.419	0.219	0.043	0.000	0.638	0.462	0.419
	Back side	0.923	0.357	0.340	0.029	1.280	1.263	0.952
LTE B48	Front side	0.196	0.219	0.043	0.000	0.415	0.239	0.196
	Back side	0.300	0.357	0.340	0.029	0.657	0.640	0.329
LTE B66	Front side	0.386	0.219	0.043	0.000	0.605	0.429	0.386
	Back side	0.537	0.357	0.340	0.029	0.894	0.877	0.566
LTE B71	Front side	0.249	0.219	0.043	0.000	0.468	0.292	0.249
	Back side	0.343	0.357	0.340	0.029	0.700	0.683	0.372
NR n2	Front side	0.422	0.219	0.043	0.000	0.641	0.465	0.422
	Back side	0.747	0.357	0.340	0.029	1.104	1.087	0.776
NR n25	Front side	0.664	0.219	0.043	0.000	0.883	0.707	0.664
	Back side	1.000	0.357	0.340	0.029	1.357	1.340	1.029
NR n26	Front side	0.271	0.219	0.043	0.000	0.490	0.314	0.271
	Back side	0.355	0.357	0.340	0.029	0.712	0.695	0.384
NR n30	Front side	0.387	0.219	0.043	0.000	0.606	0.430	0.387
	Back side	0.944	0.357	0.340	0.029	1.301	1.284	0.973
NR n41	Front side	0.281	0.219	0.043	0.000	0.500	0.324	0.281
	Back side	0.768	0.357	0.340	0.029	1.125	1.108	0.797
NR n66	Front side	0.757	0.219	0.043	0.000	0.976	0.800	0.757
	Back side	0.911	0.357	0.340	0.029	1.268	1.251	0.940
NR n70	Front side	0.393	0.219	0.043	0.000	0.612	0.436	0.393
	Back side	0.573	0.357	0.340	0.029	0.930	0.913	0.602
NR n71	Front side	0.372	0.219	0.043	0.000	0.591	0.415	0.372
	Back side	0.510	0.357	0.340	0.029	0.867	0.850	0.539
NR n48	Front side	0.334	0.219	0.043	0.000	0.553	0.377	0.334
	Back side	0.592	0.357	0.340	0.029	0.949	0.932	0.621
NR n77-3500	Front side	0.302	0.219	0.043	0.000	0.521	0.345	0.302
	Back side	0.512	0.357	0.340	0.029	0.869	0.852	0.541
NR n77-3900	Front side	0.436	0.219	0.043	0.000	0.655	0.479	0.436
	Back side	1.189	0.357	0.340	0.029	1.546	1.529	1.218



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**Hotspot:**

Test position		SARmax (W/kg)				Summed SAR		
		Main	WiFi 2.4G Ant5	WiFi 5G Ant5	BT Ant5			
		1	2	3	4	1+2	1+3	1+4
GSM850	Front side	0.540	0.210	0.041	-	0.750	0.581	0.540
	Back side	0.808	0.359	0.353	0.037	1.167	1.161	0.845
	Left side	-	-	-	-	-	-	-
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.204	-	-	-	0.204	0.204	0.204
GSM1900	Front side	0.490	0.210	0.041	-	0.700	0.531	0.490
	Back side	0.629	0.359	0.353	0.037	0.988	0.982	0.666
	Left side	0.163	-	-	-	0.163	0.163	0.163
	Right side	0.058	0.181	0.122	0.029	0.239	0.180	0.087
	Top side	0.932	0.294	0.219	0.041	1.226	1.151	0.973
	Bottom side	-	-	-	-	-	-	-
WCDMA II	Front side	0.420	0.210	0.041	-	0.630	0.461	0.420
	Back side	0.575	0.359	0.353	0.037	0.934	0.928	0.612
	Left side	0.139	-	-	-	0.139	0.139	0.139
	Right side	0.036	0.181	0.122	0.029	0.217	0.158	0.065
	Top side	0.809	0.294	0.219	0.041	1.103	1.028	0.850
	Bottom side	-	-	-	-	-	-	-
WCDMA V	Front side	0.318	0.210	0.041	-	0.528	0.359	0.318
	Back side	0.478	0.359	0.353	0.037	0.837	0.831	0.515
	Left side	-	-	-	-	-	-	-
	Right side	0.058	0.181	0.122	0.029	0.239	0.180	0.087
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.333	-	-	-	0.333	0.333	0.333
LTE B2	Front side	0.503	0.210	0.041	-	0.713	0.544	0.503
	Back side	1.105	0.359	0.353	0.037	1.464	1.458	1.142
	Left side	0.899	-	-	-	0.899	0.899	0.899
	Right side	0.059	0.181	0.122	0.029	0.240	0.181	0.088
	Top side	0.980	0.294	0.219	0.041	1.274	1.199	1.021
	Bottom side	-	-	-	-	-	-	-
LTE B12	Front side	0.289	0.210	0.041	-	0.499	0.330	0.289
	Back side	0.441	0.359	0.353	0.037	0.800	0.794	0.478
	Left side	-	-	-	-	-	-	-
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.310	-	-	-	0.310	0.310	0.310
LTE B14	Front side	0.283	0.210	0.041	-	0.493	0.324	0.283
	Back side	0.424	0.359	0.353	0.037	0.783	0.777	0.461
	Left side	-	-	-	-	-	-	-
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.172	-	-	-	0.172	0.172	0.172
LTE B26	Front side	0.308	0.210	0.041	-	0.518	0.349	0.308
	Back side	0.491	0.359	0.353	0.037	0.850	0.844	0.528
	Left side	-	-	-	-	-	-	-
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.331	-	-	-	0.331	0.331	0.331



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LTE B30	Front side	0.428	0.210	0.041	-	0.638	0.469	0.428
	Back side	1.154	0.359	0.353	0.037	1.513	1.507	1.191
	Left side	0.470	-	-	-	0.470	0.470	0.470
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	0.518	0.294	0.219	0.041	0.812	0.737	0.559
	Bottom side	-	-	-	-	-	-	-
LTE B48	Front side	0.360	0.210	0.041	-	0.570	0.401	0.360
	Back side	0.728	0.359	0.353	0.037	1.087	1.081	0.765
	Left side	0.172	-	-	-	0.172	0.172	0.172
	Right side	0.195	0.181	0.122	0.029	0.376	0.317	0.224
	Top side	0.558	0.294	0.219	0.041	0.852	0.777	0.599
	Bottom side	-	-	-	-	-	-	-
LTE B66	Front side	0.585	0.210	0.041	-	0.795	0.626	0.585
	Back side	0.968	0.359	0.353	0.037	1.327	1.321	1.005
	Left side	0.329	-	-	-	0.329	0.329	0.329
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	0.960	0.294	0.219	0.041	1.254	1.179	1.001
	Bottom side	-	-	-	-	-	-	-
LTE B71	Front side	0.281	0.210	0.041	-	0.491	0.322	0.281
	Back side	0.438	0.359	0.353	0.037	0.797	0.791	0.475
	Left side	-	-	-	-	-	-	-
	Right side	0.076	0.181	0.122	0.029	0.257	0.198	0.105
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.267	-	-	-	0.267	0.267	0.267
NR n2	Front side	0.467	0.210	0.041	-	0.677	0.508	0.467
	Back side	0.845	0.359	0.353	0.037	1.204	1.198	0.882
	Left side	0.133	-	-	-	0.133	0.133	0.133
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	1.086	0.294	0.219	0.041	1.380	1.305	1.127
	Bottom side	-	-	-	-	-	-	-
NR n25	Front side	0.627	0.210	0.041	-	0.837	0.668	0.627
	Back side	0.864	0.359	0.353	0.037	1.223	1.217	0.901
	Left side	0.233	-	-	-	0.233	0.233	0.233
	Right side	0.063	0.181	0.122	0.029	0.244	0.185	0.092
	Top side	1.059	0.294	0.219	0.041	1.353	1.278	1.100
	Bottom side	-	-	-	-	-	-	-
NR n26	Front side	0.443	0.210	0.041	-	0.653	0.484	0.443
	Back side	0.677	0.359	0.353	0.037	1.036	1.030	0.714
	Left side	-	-	-	-	-	-	-
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.446	-	-	-	0.446	0.446	0.446
NR n30	Front side	0.385	0.210	0.041	-	0.595	0.426	0.385
	Back side	1.033	0.359	0.353	0.037	1.392	1.386	1.070
	Left side	0.422	-	-	-	0.422	0.422	0.422
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	0.914	0.294	0.219	0.041	1.208	1.133	0.955
	Bottom side	-	-	-	-	-	-	-
NR n41	Front side	0.434	0.210	0.041	-	0.644	0.475	0.434
	Back side	1.054	0.359	0.353	0.037	1.413	1.407	1.091
	Left side	0.582	-	-	-	0.582	0.582	0.582
	Right side	-	0.181	0.122	0.029	0.181	0.122	0.029
	Top side	0.693	0.294	0.219	0.041	0.987	0.912	0.734
	Bottom side	-	-	-	-	-	-	-



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NR n66	Front side	0.488	0.210	0.041	-	0.698	0.529	0.488
	Back side	0.682	0.359	0.353	0.037	1.041	1.035	0.719
	Left side	0.446	-	-	-	0.446	0.446	0.446
	Right side	0.086	0.181	0.122	0.029	0.267	0.208	0.115
	Top side	0.771	0.294	0.219	0.041	1.065	0.990	0.812
	Bottom side	-	-	-	-	-	-	-
NR n70	Front side	0.649	0.210	0.041	-	0.859	0.690	0.649
	Back side	0.983	0.359	0.353	0.037	1.342	1.336	1.020
	Left side	0.353	-	-	-	0.353	0.353	0.353
	Right side	0.131	0.181	0.122	0.029	0.312	0.253	0.160
	Top side	0.970	0.294	0.219	0.041	1.264	1.189	1.011
	Bottom side	-	-	-	-	-	-	-
NR n71	Front side	0.409	0.210	0.041	-	0.619	0.450	0.409
	Back side	0.638	0.359	0.353	0.037	0.997	0.991	0.675
	Left side	-	-	-	-	-	-	-
	Right side	0.075	0.181	0.122	0.029	0.256	0.197	0.104
	Top side	-	0.294	0.219	0.041	0.294	0.219	0.041
	Bottom side	0.435	-	-	-	0.435	0.435	0.435
NR n48	Front side	0.629	0.210	0.041	-	0.839	0.670	0.629
	Back side	1.076	0.359	0.353	0.037	1.435	1.429	1.113
	Left side	0.341	-	-	-	0.341	0.341	0.341
	Right side	0.378	0.181	0.122	0.029	0.559	0.500	0.407
	Top side	0.998	0.294	0.219	0.041	1.292	1.217	1.039
	Bottom side	-	-	-	-	-	-	-
NR n77-3500	Front side	0.611	0.210	0.041	-	0.821	0.652	0.611
	Back side	1.064	0.359	0.353	0.037	1.423	1.417	1.101
	Left side	0.214	-	-	-	0.214	0.214	0.214
	Right side	0.553	0.181	0.122	0.029	0.734	0.675	0.582
	Top side	1.120	0.294	0.219	0.041	1.414	1.339	1.161
	Bottom side	-	-	-	-	-	-	-
NR n77-3900	Front side	0.918	0.210	0.041	-	1.128	0.959	0.918
	Back side	1.106	0.359	0.353	0.037	1.465	1.459	1.143
	Left side	0.231	-	-	-	0.231	0.231	0.231
	Right side	0.214	0.181	0.122	0.029	0.395	0.336	0.243
	Top side	0.957	0.294	0.219	0.041	1.251	1.176	0.998
	Bottom side	-	-	-	-	-	-	-



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**Product specific 10g SAR :**

Test position		SARmax (W/kg)		Summed SAR
		Main	WiFi 5G Ant5	
		1	2	
				1+2
GSM1900	Front side	-	0.118	0.118
	Back side	2.131	0.702	2.833
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	3.036	0.734	3.770
	Bottom side	-	-	-
WCDMA II	Front side	2.055	0.118	2.173
	Back side	1.711	0.702	2.413
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	2.239	0.734	2.973
	Bottom side	-	-	-
LTE B2	Front side	2.345	0.118	2.463
	Back side	1.820	0.702	2.522
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	2.701	0.734	3.435
	Bottom side	-	-	-
LTE B30	Front side	-	0.118	0.118
	Back side	2.721	0.702	3.423
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	-	0.734	0.734
	Bottom side	-	-	-
LTE B66	Front side	-	0.118	0.118
	Back side	2.242	0.702	2.944
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	2.193	0.734	2.927
	Bottom side	-	-	-
NR n2	Front side	-	0.118	0.118
	Back side	2.297	0.702	2.999
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	3.128	0.734	3.862
	Bottom side	-	-	-
NR n25	Front side	2.762	0.118	2.880
	Back side	2.492	0.702	3.194
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	3.149	0.734	3.883
	Bottom side	-	-	-
NR n30	Front side	-	0.118	0.118
	Back side	2.670	0.702	3.372
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	1.706	0.734	2.440
	Bottom side	-	-	-
NR n41	Front side	-	0.118	0.118



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	Back side	2.956	0.702	3.658
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	-	0.734	0.734
	Bottom side	-	-	-
NR n66	Front side	2.187	0.118	2.305
	Back side	2.676	0.702	3.378
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	2.741	0.734	3.475
NR n48	Bottom side	-	-	-
	Front side	-	0.118	0.118
	Back side	2.890	0.702	3.592
	Left side	-	-	-
	Right side	-	0.190	0.190
NR n77-3500	Top side	1.419	0.734	2.153
	Bottom side	-	-	-
	Front side	-	0.118	0.118
	Back side	2.383	0.702	3.085
	Left side	-	-	-
	Right side	-	0.190	0.190
	Top side	1.072	0.734	1.806
	Bottom side	-	-	-



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## 10 Equipment list

Test Platform		SPEAG DASY5 Professional				
Description		SAR Test System (Frequency range 300MHz-6GHz)				
Software Reference		DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)				
Hardware Reference						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration	
<input checked="" type="checkbox"/>	Twin Phantom	SPEAG	SAM1	1769	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4	1327	2023-11-17	2024-11-16
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	3923	2023-02-28	2024-02-27
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D750V3	1210	2021-09-08	2024-09-07
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D835V2	4d161	2023-08-25	2026-08-24
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1750V2	1038	2021-12-16	2024-12-15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D1950V3	1218	2023-05-04	2026-05-03
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2300V2	1072	2022-06-16	2025-06-15
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	922	2023-08-28	2026-08-27
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2600V2	1180	2021-05-12	2024-05-11
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3500V2	1124	2021-05-17	2024-05-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3700V2	1094	2021-05-17	2024-05-16
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D3900V2	1071	2021-05-20	2024-05-19
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2023-06-06	2024-06-05
<input checked="" type="checkbox"/>	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2023-06-06	2024-06-05
<input checked="" type="checkbox"/>	Universal Radio Communication Tester	R&S	CMW500	111637	2023-09-13	2024-09-12
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	R&S	SMB100A	182393	2023-02-06	2024-02-05
<input checked="" type="checkbox"/>	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR
<input checked="" type="checkbox"/>	Power Sensor	Keysight	U2002H	121251	2023-9-13	2024-09-12
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	30704	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR
<input checked="" type="checkbox"/>	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR
<input checked="" type="checkbox"/>	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	LKM	DTM3000	SUW201-19-02	2023-09-15	2024-09-14
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	MingGao	MingGao	NA	2023-09-15	2024-09-14

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



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## 11 Calibration certificate

Please see the Appendix C

## 12 Photographs

Please see the Appendix D

## Appendix A: Detailed System Check Results

## Appendix B: Detailed Test Results

## Appendix C: Calibration certificate

## Appendix D: Photographs

## Appendix E: Conducted RF Output Power

---END---



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