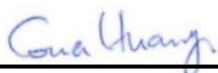


FCC SAR TEST REPORT

FCC ID : A4RGB7N6
Equipment : Phone
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2 (2.1093)

The product was received on Jun. 02, 2021 and testing was started from Nov. 08, 2022 and completed on Nov. 10, 2022. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



Sporton International Inc. EMC & Wireless Communications Laboratory
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan



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History of this test report

Report No.	Version	Description	Issued Date
FA0D2942-19B	01	Initial issue of report	Nov. 18, 2022



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Google LLC, Phone, are as follows.

Equipment Class	Frequency Band		Highest SAR Summary				Highest Simultaneous Transmission 1g SAR (W/kg)	Highest Simultaneous Transmission 10g SAR (W/kg)
			Head (Separation 0mm)	Body-worn (Separation 10mm)	Hotspot (Separation 10mm)	Product Specific (Separation 0mm)		
			1g SAR (W/kg)			10g SAR (W/kg)		
NII	WLAN	5GHz WLAN	1.11	1.03	0.67	2.83	1.59	2.83
Date of Testing:			2022/11/8 ~ 2022/11/10					

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: Jason Wang

Report Producer: Paula Chen

2. Equipment Under Test (EUT) Information

2.1 General Information

Product Feature & Specification	
Equipment Name	Phone
FCC ID	A4RGB7N6
SN	15171FDF60007Q
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77: 3700 MHz ~ 3980 MHz, 3450 MHz ~ 3550 MHz WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 5.8G UNII4 Band: 5850 MHz ~ 5895 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz WPT: 110KHz ~ 148.5KHz
Mode	GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA LTE: QPSK, 16QAM, 64QAM, 256QAM 5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC:ASK WPT: ASK
GSM / (E)GPRS Transfer mode	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.
Remark: 1. Variant report to enable WiFi 5.8G UNII4 operation, in this report only evaluation WiFi 5.8G UNII4 RF Exposure. 2. The other transmitter RF Exposure evaluation refers to Sporton SAR Report No.: FA0D2942-05C. 3. The worst case WLAN SAR results between report no.: FA0D2942-05C and FA0D2942-19B are using for Sim-Tx analysis with other transmitters. Therefore, in report section 14 summations represent the absolute worst cases for Sim-Tx analysis for this device.	

**<WLAN Maximum Power>****General Note:**

1. The device implements the power management for WLAN SAR compliance for different exposure conditions and user cases. When the device is operated against the user's head, power index 1-4 are used; when the device is operated in the body-worn or extremity condition, power index 5-9 are used. In each exposure condition, the power selection is based on the user cases as described in Section 15 of this report. Full details about the proprietary power management decision are illustrated in the operational description.
2. 4+3(4): power level on antenna 4, when device operated in MIMO mode (4+3)

<Mobile Condition – Power Index 0>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	21.0	21.0	24.0
		173	5865	21.0	21.0	24.0
		177	5885	21.0	21.0	24.0
	802.11n-HT20 MCS0	169	5845	21.0	21.0	24.0
		173	5865	21.0	21.0	24.0
		177	5885	21.0	21.0	24.0
	802.11n-HT40 MCS0	167	5835	20.0	20.0	23.0
		175	5875	20.0	20.0	23.0
	802.11ac-VHT20 MCS0	169	5845	21.0	21.0	24.0
		173	5865	21.0	21.0	24.0
		177	5885	21.0	21.0	24.0
	802.11ac-VHT40 MCS0	167	5835	20.0	20.0	23.0
		175	5875	20.0	20.0	23.0
	802.11ac-VHT80 MCS0	171	5855	20.5	20.5	23.5
	802.11ax-HE20 MCS0	169	5845	21.0	21.0	24.0
		173	5865	21.0	21.0	24.0
		177	5885	21.0	21.0	24.0
	802.11ax-HE40 MCS0	167	5835	20.0	20.0	23.0
		175	5875	20.0	20.0	23.0
	802.11ax-HE80 MCS0	171	5855	20.5	20.5	23.5

<Power Index 1>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	15.0	15.0	18.0
		173	5865	15.0	15.0	18.0
		177	5885	15.0	15.0	18.0
	802.11n-HT20 MCS0	169	5845	15.0	15.0	18.0
		173	5865	15.0	15.0	18.0
		177	5885	15.0	15.0	18.0
	802.11n-HT40 MCS0	167	5835	15.0	15.0	18.0
		175	5875	15.0	15.0	18.0
	802.11ac-VHT20 MCS0	169	5845	15.0	15.0	18.0
		173	5865	15.0	15.0	18.0
		177	5885	15.0	15.0	18.0
	802.11ac-VHT40 MCS0	167	5835	15.0	15.0	18.0
		175	5875	15.0	15.0	18.0
	802.11ac-VHT80 MCS0	171	5855	15.5	15.5	18.5
	802.11ax-HE20 MCS0	169	5845	15.0	15.0	18.0
		173	5865	15.0	15.0	18.0
		177	5885	15.0	15.0	18.0
	802.11ax-HE40 MCS0	167	5835	15.0	15.0	18.0
		175	5875	15.0	15.0	18.0
	802.11ax-HE80 MCS0	171	5855	15.5	15.5	18.5

<Power Index 2>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	14.5	14.5	17.5
		173	5865	14.5	14.5	17.5
		177	5885	14.5	14.5	17.5
	802.11n-HT20 MCS0	169	5845	14.5	14.5	17.5
		173	5865	14.5	14.5	17.5
		177	5885	14.5	14.5	17.5
	802.11n-HT40 MCS0	167	5835	14.5	14.5	17.5
		175	5875	14.5	14.5	17.5
	802.11ac-VHT20 MCS0	169	5845	14.5	14.5	17.5
		173	5865	14.5	14.5	17.5
		177	5885	14.5	14.5	17.5
	802.11ac-VHT40 MCS0	167	5835	14.5	14.5	17.5
		175	5875	14.5	14.5	17.5
	802.11ac-VHT80 MCS0	171	5855	14.5	14.5	17.5
	802.11ax-HE20 MCS0	169	5845	14.5	14.5	17.5
		173	5865	14.5	14.5	17.5
		177	5885	14.5	14.5	17.5
	802.11ax-HE40 MCS0	167	5835	14.5	14.5	17.5
		175	5875	14.5	14.5	17.5
	802.11ax-HE80 MCS0	171	5855	14.5	14.5	17.5

<Power Index 3>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	11.0	11.0	14.0
		173	5865	11.0	11.0	14.0
		177	5885	11.0	11.0	14.0
	802.11n-HT20 MCS0	169	5845	11.0	11.0	14.0
		173	5865	11.0	11.0	14.0
		177	5885	11.0	11.0	14.0
	802.11n-HT40 MCS0	167	5835	11.0	11.0	14.0
		175	5875	11.0	11.0	14.0
	802.11ac-VHT20 MCS0	169	5845	11.0	11.0	14.0
		173	5865	11.0	11.0	14.0
		177	5885	11.0	11.0	14.0
	802.11ac-VHT40 MCS0	167	5835	11.0	11.0	14.0
		175	5875	11.0	11.0	14.0
	802.11ac-VHT80 MCS0	171	5855	11.0	11.0	14.0
	802.11ax-HE20 MCS0	169	5845	11.0	11.0	14.0
		173	5865	11.0	11.0	14.0
		177	5885	11.0	11.0	14.0
	802.11ax-HE40 MCS0	167	5835	11.0	11.0	14.0
		175	5875	11.0	11.0	14.0
	802.11ax-HE80 MCS0	171	5855	11.0	11.0	14.0

<Power Index 4>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	11.5	11.5	14.5
		173	5865	11.5	11.5	14.5
		177	5885	11.5	11.5	14.5
	802.11n-HT20 MCS0	169	5845	11.5	11.5	14.5
		173	5865	11.5	11.5	14.5
		177	5885	11.5	11.5	14.5
	802.11n-HT40 MCS0	167	5835	11.5	11.5	14.5
		175	5875	11.5	11.5	14.5
	802.11ac-VHT20 MCS0	169	5845	11.5	11.5	14.5
		173	5865	11.5	11.5	14.5
		177	5885	11.5	11.5	14.5
	802.11ac-VHT40 MCS0	167	5835	11.5	11.5	14.5
		175	5875	11.5	11.5	14.5
	802.11ac-VHT80 MCS0	171	5855	11.5	11.5	14.5
	802.11ax-HE20 MCS0	169	5845	11.5	11.5	14.5
		173	5865	11.5	11.5	14.5
		177	5885	11.5	11.5	14.5
	802.11ax-HE40 MCS0	167	5835	11.5	11.5	14.5
		175	5875	11.5	11.5	14.5
	802.11ax-HE80 MCS0	171	5855	11.5	11.5	14.5

<Power Index 5>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	19.5	19.5	22.5
		173	5865	19.5	19.5	22.5
		177	5885	19.5	19.5	22.5
	802.11n-HT20 MCS0	169	5845	19.5	19.5	22.5
		173	5865	19.5	19.5	22.5
		177	5885	19.5	19.5	22.5
	802.11n-HT40 MCS0	167	5835	19.5	19.5	22.5
		175	5875	19.5	19.5	22.5
	802.11ac-VHT20 MCS0	169	5845	19.5	19.5	22.5
		173	5865	19.5	19.5	22.5
		177	5885	19.5	19.5	22.5
	802.11ac-VHT40 MCS0	167	5835	19.5	19.5	22.5
		175	5875	19.5	19.5	22.5
	802.11ac-VHT80 MCS0	171	5855	20.0	20.0	23.0
	802.11ax-HE20 MCS0	169	5845	19.5	19.5	22.5
		173	5865	19.5	19.5	22.5
		177	5885	19.5	19.5	22.5
	802.11ax-HE40 MCS0	167	5835	19.5	19.5	22.5
		175	5875	19.5	19.5	22.5
	802.11ax-HE80 MCS0	171	5855	20.0	20.0	23.0

<Power Index 6>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	19.0	19.0	22.0
		173	5865	19.0	19.0	22.0
		177	5885	19.0	19.0	22.0
	802.11n-HT20 MCS0	169	5845	19.0	19.0	22.0
		173	5865	19.0	19.0	22.0
		177	5885	19.0	19.0	22.0
	802.11n-HT40 MCS0	167	5835	19.0	19.0	22.0
		175	5875	19.0	19.0	22.0
	802.11ac-VHT20 MCS0	169	5845	19.0	19.0	22.0
		173	5865	19.0	19.0	22.0
		177	5885	19.0	19.0	22.0
	802.11ac-VHT40 MCS0	167	5835	19.0	19.0	22.0
		175	5875	19.0	19.0	22.0
	802.11ac-VHT80 MCS0	171	5855	19.5	19.5	22.5
	802.11ax-HE20 MCS0	169	5845	19.0	19.0	22.0
		173	5865	19.0	19.0	22.0
		177	5885	19.0	19.0	22.0
	802.11ax-HE40 MCS0	167	5835	19.0	19.0	22.0
		175	5875	19.0	19.0	22.0
	802.11ax-HE80 MCS0	171	5855	19.5	19.5	22.5

<Power Index 7>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	18.0	18.0	21.0
		173	5865	18.0	18.0	21.0
		177	5885	18.0	18.0	21.0
	802.11n-HT20 MCS0	169	5845	18.0	18.0	21.0
		173	5865	18.0	18.0	21.0
		177	5885	18.0	18.0	21.0
	802.11n-HT40 MCS0	167	5835	18.0	18.0	21.0
		175	5875	18.0	18.0	21.0
	802.11ac-VHT20 MCS0	169	5845	18.0	18.0	21.0
		173	5865	18.0	18.0	21.0
		177	5885	18.0	18.0	21.0
	802.11ac-VHT40 MCS0	167	5835	18.0	18.0	21.0
		175	5875	18.0	18.0	21.0
	802.11ac-VHT80 MCS0	171	5855	18.0	18.0	21.0
	802.11ax-HE20 MCS0	169	5845	18.0	18.0	21.0
		173	5865	18.0	18.0	21.0
		177	5885	18.0	18.0	21.0
	802.11ax-HE40 MCS0	167	5835	18.0	18.0	21.0
		175	5875	18.0	18.0	21.0
	802.11ax-HE80 MCS0	171	5855	18.0	18.0	21.0

<Power Index 8>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	14.5	14.5	17.5
		173	5865	14.5	14.5	17.5
		177	5885	14.5	14.5	17.5
	802.11n-HT20 MCS0	169	5845	14.5	14.5	17.5
		173	5865	14.5	14.5	17.5
		177	5885	14.5	14.5	17.5
	802.11n-HT40 MCS0	167	5835	14.5	14.5	17.5
		175	5875	14.5	14.5	17.5
	802.11ac-VHT20 MCS0	169	5845	14.5	14.5	17.5
		173	5865	14.5	14.5	17.5
		177	5885	14.5	14.5	17.5
	802.11ac-VHT40 MCS0	167	5835	14.5	14.5	17.5
		175	5875	14.5	14.5	17.5
	802.11ac-VHT80 MCS0	171	5855	14.5	14.5	17.5
	802.11ax-HE20 MCS0	169	5845	14.5	14.5	17.5
		173	5865	14.5	14.5	17.5
		177	5885	14.5	14.5	17.5
	802.11ax-HE40 MCS0	167	5835	14.5	14.5	17.5
		175	5875	14.5	14.5	17.5
	802.11ax-HE80 MCS0	171	5855	14.5	14.5	17.5

<Power Index 9>

Burst Average Power (dBm)						
Transmit Antenna				MIMO		
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Ant 4+3(4) Tune-Up Limit	Ant 4+3(3) Tune-Up Limit	Ant 4+3 Tune-Up Limit
	802.11a 6Mbps	169	5845	15.0	15.0	18.0
		173	5865	15.0	15.0	18.0
		177	5885	15.0	15.0	18.0
	802.11n-HT20 MCS0	169	5845	15.0	15.0	18.0
		173	5865	15.0	15.0	18.0
		177	5885	15.0	15.0	18.0
	802.11n-HT40 MCS0	167	5835	15.0	15.0	18.0
		175	5875	15.0	15.0	18.0
	802.11ac-VHT20 MCS0	169	5845	15.0	15.0	18.0
		173	5865	15.0	15.0	18.0
		177	5885	15.0	15.0	18.0
	802.11ac-VHT40 MCS0	167	5835	15.0	15.0	18.0
		175	5875	15.0	15.0	18.0
	802.11ac-VHT80 MCS0	171	5855	15.0	15.0	18.0
	802.11ax-HE20 MCS0	169	5845	15.0	15.0	18.0
		173	5865	15.0	15.0	18.0
		177	5885	15.0	15.0	18.0
	802.11ax-HE40 MCS0	167	5835	15.0	15.0	18.0
		175	5875	15.0	15.0	18.0
	802.11ax-HE80 MCS0	171	5855	15.0	15.0	18.0

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02

4. RF Exposure Limits

4.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

4.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

4.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

5. Specific Absorption Rate (SAR)

5.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

5.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

6.2 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz)	
Directivity	± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm	

<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – >6 GHz Linearity: ± 0.2 dB (30 MHz – 6 GHz)	
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g – >100 mW/g Linearity: ± 0.2 dB (noise: typically <1 μ W/g)	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	

6.3 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

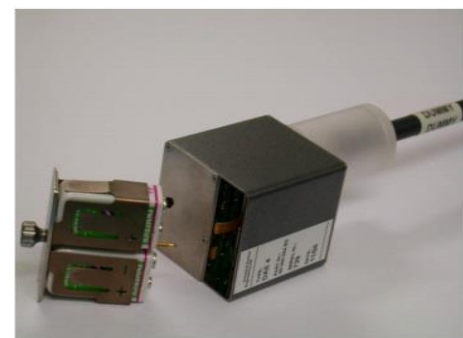


Fig 5.1 Photo of DAE

6.4 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet
Measurement Areas	Left Hand, Right Hand, Flat Phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

Shell Thickness	2 ± 0.2 mm (sagging: <1%)
Filling Volume	Approx. 30 liters
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm



The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

6.5 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

7. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

7.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

7.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

7.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

7.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

7.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

8. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	5GHz System Validation Kit	D5GHzV2	1171	Apr. 20, 2021	Apr. 18, 2023
SPEAG	Data Acquisition Electronics	DAE4	1697	Nov. 09, 2021	Nov. 08, 2022
SPEAG	Data Acquisition Electronics	DAE4	1707	Jan. 12, 2022	Jan. 11, 2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7625	Jan. 27, 2022	Jan. 26, 2023
RCPTWN	Thermometer	HTC-1	TM560-2	Mar. 15, 2022	Mar. 14, 2023
SPEAG	Device Holder	N/A	N/A	N/A	N/A
Anritsu	Signal Generator	MG3710A	6201502524	Oct. 12, 2022	Oct. 11, 2023
Keysight	ENA Network Analyzer	E5071C	MY46104758	Sep. 22, 2022	Sep. 21, 2023
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Sep. 28, 2022	Sep. 27, 2023
LINE SEIKI	Digital Thermometer	DTM3000-spezial	2942	Oct. 31, 2022	Oct. 30, 2023
Anritsu	Power Meter	ML2495A	1419002	Aug. 16, 2022	Aug. 15, 2023
Anritsu	Power Sensor	MA2411B	1911176	Aug. 16, 2022	Aug. 15, 2023
Anritsu	Power Meter	ML2495A	1804003	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Power Sensor	MA2411B	1726150	Oct. 17, 2022	Oct. 16, 2023
Anritsu	Spectrum Analyzer	N9010A	MY53470118	Jan. 12, 2022	Jan. 11, 2023
Agilent	Spectrum Analyzer	E4408B	MY44211028	Aug. 19, 2021	Aug. 17, 2023
Mini-Circuits	Power Amplifier	ZVE-8G+	6418	Oct. 14, 2022	Oct. 13, 2023
Mini-Circuits	Power Amplifier	ZVE-8G+	479102029	Sep. 15, 2022	Sep. 14, 2023
ATM	Dual Directional Coupler	C122H-10	P610410z-02	Note 1	
Woken	Attenuator 1	WK0602-XX	N/A	Note 1	
PE	Attenuator 2	PE7005-10	N/A	Note 1	
PE	Attenuator 3	PE7005- 3	N/A	Note 1	

General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

9. System Verification

9.1 Tissue Verification

The tissue dielectric parameters of tissue-equivalent media used for SAR measurements must be characterized within a temperature range of 18°C to 25°C, measured with calibrated instruments and apparatuses, such as network analyzers and temperature probes. The temperature of the tissue-equivalent medium during SAR measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized. The tissue dielectric measurement system must be calibrated before use. The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements.

The liquid tissue depth was at least 15cm in the phantom for all SAR testing.

<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Liquid Temp. (°C)	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity Target (σ)	Permittivity Target (ϵ_r)	Delta (σ) (%)	Delta (ϵ_r) (%)	Limit (%)	Date
5850	22.3	5.334	35.551	5.32	35.25	0.26	0.85	± 5	2022/11/8
5850	22.2	5.405	35.783	5.32	35.25	1.60	1.51	± 5	2022/11/9
5850	22.5	5.373	35.802	5.32	35.25	1.00	1.57	± 5	2022/11/10

9.2 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Test Site	Date	Frequency (MHz)	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
SAR09	2022/11/8	5850	100	D5GHzV2-1171-5850	EX3DV4 - SN7625	DAE4 Sn1697	8.420	82.300	84.2	2.31	2.360	23.100	23.6	2.16
SAR09	2022/11/9	5850	100	D5GHzV2-1171-5850	EX3DV4 - SN7625	DAE4 Sn1707	8.520	82.300	85.2	3.52	2.390	23.100	23.9	3.46
SAR09	2022/11/10	5850	50	D5GHzV2-1171-5850	EX3DV4 - SN7625	DAE4 Sn1707	4.060	82.300	81.2	-1.34	1.170	23.100	23.4	1.30

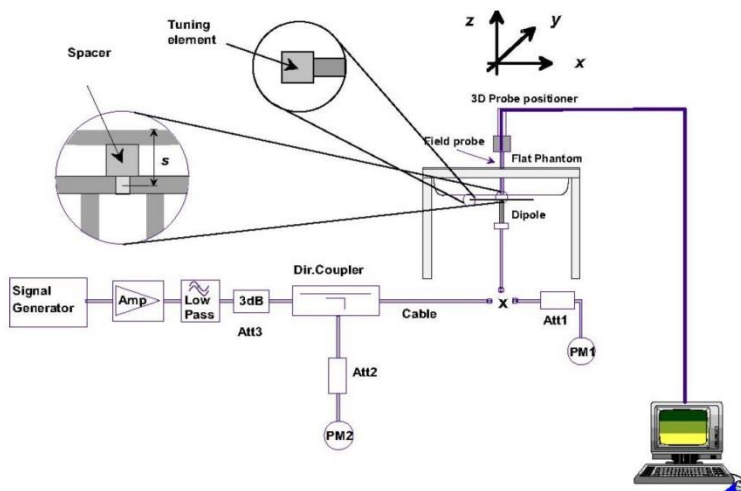


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

10. RF Exposure Positions

10.1 Ear and handset reference point

Figure 9.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled “M,” the left ear reference point (ERP) is marked “LE,” and the right ERP is marked “RE.” Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 9.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 9.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

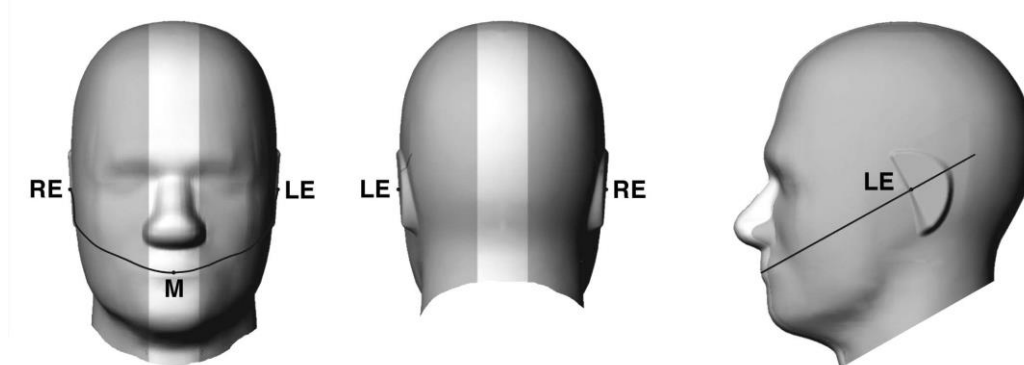


Fig 9.1.1 Front, back, and side views of SAM twin phantom

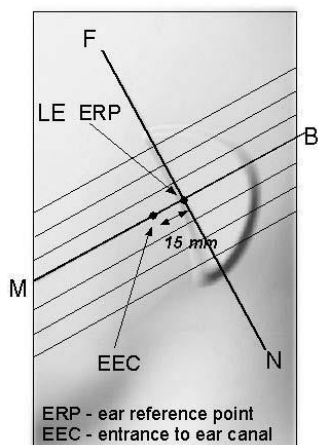


Fig 9.1.2 Close-up side view of phantom showing the ear region.

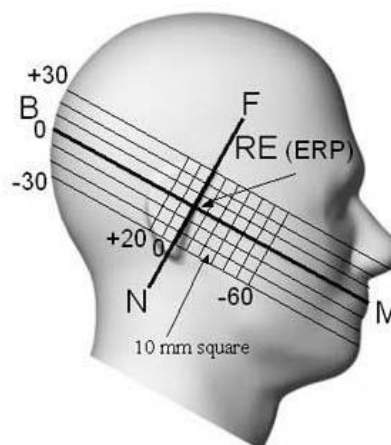


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

10.2 Definition of the cheek position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width w_t of the handset at the level of the acoustic output (point A in Figure 9.2.1 and Figure 9.2.2), and the midpoint of the width w_b of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 9.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 9.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 9.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 9.2.3. The actual rotation angles should be documented in the test report.

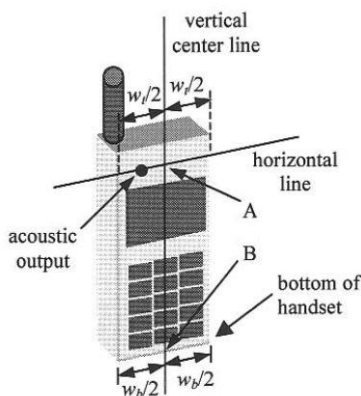


Fig 9.2.1 Handset vertical and horizontal reference lines—"fixed case"

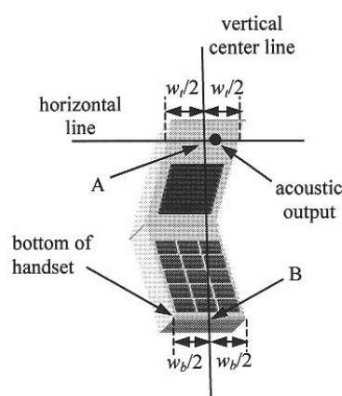


Fig 9.2.2 Handset vertical and horizontal reference lines—"clam-shell case"

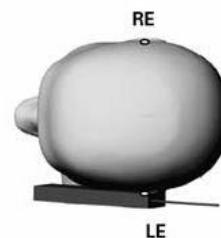
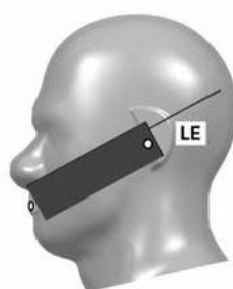
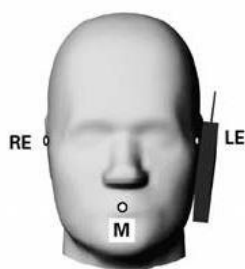


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

10.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15° .
3. Rotate the handset around the horizontal line by 15° .
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 9.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

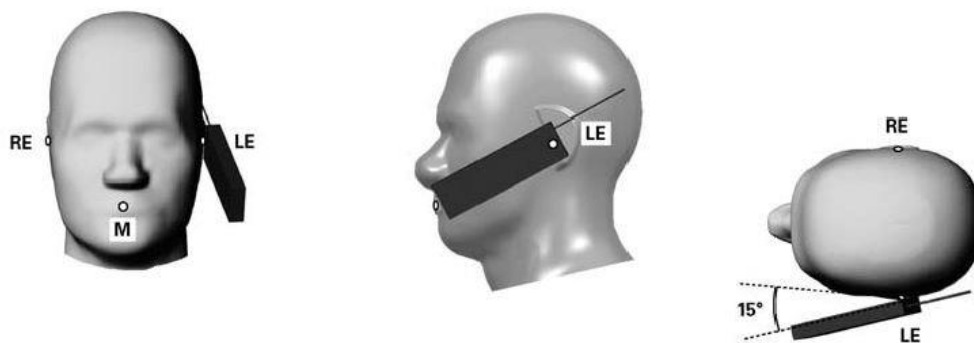


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

10.4 Body-Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 9.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is $> 1.2 \text{ W/kg}$, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

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

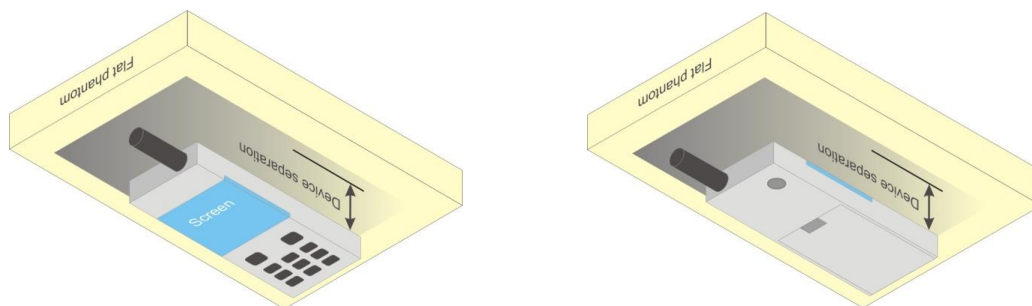


Fig 9.4 Body Worn Position

10.5 Product Specific Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.⁶ The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

10.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.



11. WiFi Output Power (Unit: dBm)

<WLAN Note>

1. All of the wireless technology of this device only supports MIMO mode operation.
2. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band additional output power measurements were not necessary.
3. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
4. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
5. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
6. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closest/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
7. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
8. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
9. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
10. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel
11. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of antenna 3 and antenna 4 respectively to calculate sum of the power for MIMO mode

WLAN Default Power

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	21.0	not required	21.0	not required	24.0	not required
		173	5865		21.0		21.0		24.0	
		177	5885		21.0		21.0		24.0	
	802.11n-HT20 MCS0	169	5845		21.0		21.0		24.0	
		173	5865		21.0		21.0		24.0	
		177	5885		21.0		21.0		24.0	
	802.11n-HT40 MCS0	167	5835		20.0		20.0		23.0	
		175	5875		20.0		20.0		23.0	
	802.11ac-VHT20 MCS0	169	5845		21.0		21.0		24.0	
		173	5865		21.0		21.0		24.0	
		177	5885		21.0		21.0		24.0	
	802.11ac-VHT40 MCS0	167	5835		20.0		20.0		23.0	
		175	5875		20.0		20.0		23.0	
	802.11ac-VHT80 MCS0	171	5855		20.5		20.5		23.5	
	802.11ax-HE20 MCS0	169	5845		21.0		21.0		24.0	
		173	5865		21.0		21.0		24.0	
		177	5885		21.0		21.0		24.0	
	802.11ax-HE40 MCS0	167	5835		20.0		20.0		23.0	
		175	5875		20.0		20.0		23.0	
	802.11ax-HE80 MCS0	171	5855		20.5		20.5		23.5	

WLAN Power Index 1

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	15.0	not required	15.0	not required	18.0	not required
		173	5865		15.0		15.0		18.0	
		177	5885		15.0		15.0		18.0	
	802.11n-HT20 MCS0	169	5845		15.0		15.0		18.0	
		173	5865		15.0		15.0		18.0	
		177	5885		15.0		15.0		18.0	
	802.11n-HT40 MCS0	167	5835	14.10	15.0	14.30	15.0	17.21	18.0	96.80
		175	5875	13.80	15.0	14.20	15.0	17.01	18.0	
	802.11ac-VHT20 MCS0	169	5845	not required	15.0	not required	15.0	not required	18.0	not required
		173	5865		15.0		15.0		18.0	
		177	5885		15.0		15.0		18.0	
	802.11ac-VHT40 MCS0	167	5835		15.0		15.0		18.0	
		175	5875		15.0		15.0		18.0	
	802.11ac-VHT80 MCS0	171	5855	14.50	15.5	14.40	15.5	17.46	18.5	88.20
	802.11ax-HE20 MCS0	169	5845	not required	15.0	not required	15.0	not required	18.0	not required
		173	5865		15.0		15.0		18.0	
		177	5885		15.0		15.0		18.0	
	802.11ax-HE40 MCS0	167	5835		15.0		15.0		18.0	
		175	5875		15.0		15.0		18.0	
	802.11ax-HE80 MCS0	171	5855		15.5		15.5		18.5	

WLAN Power Index 2

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	14.5	not required	14.5	not required	17.5	not required
		173	5865		14.5		14.5		17.5	
		177	5885		14.5		14.5		17.5	
	802.11n-HT20 MCS0	169	5845		14.5		14.5		17.5	
		173	5865		14.5		14.5		17.5	
		177	5885		14.5		14.5		17.5	
	802.11n-HT40 MCS0	167	5835	14.10	14.5	14.30	14.5	17.21	17.5	96.80
		175	5875	13.80	14.5	14.20	14.5	17.01	17.5	
	802.11ac-VHT20 MCS0	169	5845	not required	14.5	not required	14.5	not required	17.5	not required
		173	5865		14.5		14.5		17.5	
		177	5885		14.5		14.5		17.5	
	802.11ac-VHT40 MCS0	167	5835		14.5		14.5		17.5	
		175	5875		14.5		14.5		17.5	
	802.11ac-VHT80 MCS0	171	5855	14.50	14.5	14.40	14.5	17.46	17.5	88.20
	802.11ax-HE20 MCS0	169	5845	not required	14.5	not required	14.5	not required	17.5	not required
		173	5865		14.5		14.5		17.5	
		177	5885		14.5		14.5		17.5	
	802.11ax-HE40 MCS0	167	5835		14.5		14.5		17.5	
		175	5875		14.5		14.5		17.5	
	802.11ax-HE80 MCS0	171	5855		14.5		14.5		17.5	

WLAN Power Index 3

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	11.0	not required	11.0	not required	14.0	not required
		173	5865		11.0		11.0		14.0	
		177	5885		11.0		11.0		14.0	
	802.11n-HT20 MCS0	169	5845		11.0		11.0		14.0	
		173	5865		11.0		11.0		14.0	
		177	5885		11.0		11.0		14.0	
	802.11n-HT40 MCS0	167	5835		11.0		11.0		14.0	
		175	5875		11.0		11.0		14.0	
	802.11ac-VHT20 MCS0	169	5845		11.0		11.0		14.0	
		173	5865		11.0		11.0		14.0	
		177	5885		11.0		11.0		14.0	
	802.11ac-VHT40 MCS0	167	5835		11.0		11.0		14.0	
		175	5875		11.0		11.0		14.0	
	802.11ac-VHT80 MCS0	171	5855	10.80	11.0	11.00	11.0	13.91	14.0	88.20
	802.11ax-HE20 MCS0	169	5845	not required	11.0	not required	11.0	not required	14.0	not required
		173	5865		11.0		11.0		14.0	
		177	5885		11.0		11.0		14.0	
	802.11ax-HE40 MCS0	167	5835		11.0		11.0		14.0	
		175	5875		11.0		11.0		14.0	
	802.11ax-HE80 MCS0	171	5855		11.0		11.0		14.0	

WLAN Power Index 4

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	11.5	not required	11.5	not required	14.5	not required
		173	5865		11.5		11.5		14.5	
		177	5885		11.5		11.5		14.5	
	802.11n-HT20 MCS0	169	5845		11.5		11.5		14.5	
		173	5865		11.5		11.5		14.5	
		177	5885		11.5		11.5		14.5	
	802.11n-HT40 MCS0	167	5835		11.5		11.5		14.5	
		175	5875		11.5		11.5		14.5	
	802.11ac-VHT20 MCS0	169	5845		11.5		11.5		14.5	
		173	5865		11.5		11.5		14.5	
		177	5885		11.5		11.5		14.5	
	802.11ac-VHT40 MCS0	167	5835		11.5		11.5		14.5	
		175	5875		11.5		11.5		14.5	
	802.11ac-VHT80 MCS0	171	5855	10.80	11.5	11.00	11.5	13.91	14.5	88.20
	802.11ax-HE20 MCS0	169	5845	not required	11.5	not required	11.5	not required	14.5	not required
		173	5865		11.5		11.5		14.5	
		177	5885		11.5		11.5		14.5	
	802.11ax-HE40 MCS0	167	5835		11.5		11.5		14.5	
		175	5875		11.5		11.5		14.5	
	802.11ax-HE80 MCS0	171	5855		11.5		11.5		14.5	

WLAN Power Index 5

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	19.5	not required	19.5	not required	22.5	not required
		173	5865		19.5		19.5		22.5	
		177	5885		19.5		19.5		22.5	
	802.11n-HT20 MCS0	169	5845		19.5		19.5		22.5	
		173	5865		19.5		19.5		22.5	
		177	5885		19.5		19.5		22.5	
	802.11n-HT40 MCS0	167	5835	18.90	19.5	19.00	19.5	21.96	22.5	96.90
		175	5875	18.90	19.5	19.00	19.5	21.96	22.5	
	802.11ac-VHT20 MCS0	169	5845	not required	19.5	not required	19.5	not required	22.5	not required
		173	5865		19.5		19.5		22.5	
		177	5885		19.5		19.5		22.5	
	802.11ac-VHT40 MCS0	167	5835		19.5		19.5		22.5	
		175	5875		19.5		19.5		22.5	
	802.11ac-VHT80 MCS0	171	5855	19.50	20.0	19.30	20.0	22.41	23.0	88.20
	802.11ax-HE20 MCS0	169	5845	not required	19.5	not required	19.5	not required	22.5	not required
		173	5865		19.5		19.5		22.5	
		177	5885		19.5		19.5		22.5	
	802.11ax-HE40 MCS0	167	5835		19.5		19.5		22.5	
		175	5875		19.5		19.5		22.5	
	802.11ax-HE80 MCS0	171	5855		20.0		20.0		23.0	

WLAN Power Index 6

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	19.0	not required	19.0	not required	22.0	not required
		173	5865		19.0		19.0		22.0	
		177	5885		19.0		19.0		22.0	
	802.11n-HT20 MCS0	169	5845		19.0		19.0		22.0	
		173	5865		19.0		19.0		22.0	
		177	5885		19.0		19.0		22.0	
	802.11n-HT40 MCS0	167	5835	18.90	19.0	19.00	19.0	21.96	22.0	96.90
		175	5875	18.90	19.0	19.00	19.0	21.96	22.0	
	802.11ac-VHT20 MCS0	169	5845	not required	19.0	not required	19.0	not required	22.0	not required
		173	5865		19.0		19.0		22.0	
		177	5885		19.0		19.0		22.0	
	802.11ac-VHT40 MCS0	167	5835		19.0		19.0		22.0	
		175	5875		19.0		19.0		22.0	
	802.11ac-VHT80 MCS0	171	5855	19.50	19.5	19.30	19.5	22.41	22.5	88.20
	802.11ax-HE20 MCS0	169	5845	not required	19.0	not required	19.0	not required	22.0	not required
		173	5865		19.0		19.0		22.0	
		177	5885		19.0		19.0		22.0	
	802.11ax-HE40 MCS0	167	5835		19.0		19.0		22.0	
		175	5875		19.0		19.0		22.0	
	802.11ax-HE80 MCS0	171	5855		19.5		19.5		22.5	

WLAN Power Index 7

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	18.0	not required	18.0	not required	21.0	not required
		173	5865		18.0		18.0		21.0	
		177	5885		18.0		18.0		21.0	
	802.11n-HT20 MCS0	169	5845		18.0		18.0		21.0	
		173	5865		18.0		18.0		21.0	
		177	5885		18.0		18.0		21.0	
	802.11n-HT40 MCS0	167	5835		18.0		18.0		21.0	
		175	5875		18.0		18.0		21.0	
	802.11ac-VHT20 MCS0	169	5845		18.0		18.0		21.0	
		173	5865		18.0		18.0		21.0	
		177	5885		18.0		18.0		21.0	
	802.11ac-VHT40 MCS0	167	5835		18.0		18.0		21.0	
		175	5875		18.0		18.0		21.0	
	802.11ac-VHT80 MCS0	171	5855	18.00	18.0	17.70	18.0	20.86	21.0	88.20
	802.11ax-HE20 MCS0	169	5845	not required	18.0	not required	18.0	not required	21.0	not required
		173	5865		18.0		18.0		21.0	
		177	5885		18.0		18.0		21.0	
	802.11ax-HE40 MCS0	167	5835		18.0		18.0		21.0	
		175	5875		18.0		18.0		21.0	
	802.11ax-HE80 MCS0	171	5855		18.0		18.0		21.0	

WLAN Power Index 8

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	15.0	not required	15.0	not required	18.0	not required
		173	5865		15.0		15.0		18.0	
		177	5885		15.0		15.0		18.0	
	802.11n-HT20 MCS0	169	5845		15.0		15.0		18.0	
		173	5865		15.0		15.0		18.0	
		177	5885		15.0		15.0		18.0	
	802.11n-HT40 MCS0	167	5835		15.0		15.0		18.0	
		175	5875		15.0		15.0		18.0	
	802.11ac-VHT20 MCS0	169	5845		15.0		15.0		18.0	
		173	5865		15.0		15.0		18.0	
		177	5885		15.0		15.0		18.0	
	802.11ac-VHT40 MCS0	167	5835		15.0		15.0		18.0	
		175	5875		15.0		15.0		18.0	
	802.11ac-VHT80 MCS0	171	5855	14.50	15.0	14.40	15.0	17.46	18.0	88.20
	802.11ax-HE20 MCS0	169	5845	not required	15.0	not required	15.0	not required	18.0	not required
		173	5865		15.0		15.0		18.0	
		177	5885		15.0		15.0		18.0	
	802.11ax-HE40 MCS0	167	5835		15.0		15.0		18.0	
		175	5875		15.0		15.0		18.0	
	802.11ax-HE80 MCS0	171	5855		15.0		15.0		18.0	

WLAN Power Index 9

	Mode	Channel	Frequency (MHz)	Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
				Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	169	5845	not required	14.5	not required	14.5	not required	17.5	not required
		173	5865		14.5		14.5		17.5	
		177	5885		14.5		14.5		17.5	
	802.11n-HT20 MCS0	169	5845		14.5		14.5		17.5	
		173	5865		14.5		14.5		17.5	
		177	5885		14.5		14.5		17.5	
	802.11n-HT40 MCS0	167	5835		14.5		14.5		17.5	
		175	5875		14.5		14.5		17.5	
	802.11ac-VHT20 MCS0	169	5845		14.5		14.5		17.5	
		173	5865		14.5		14.5		17.5	
		177	5885		14.5		14.5		17.5	
	802.11ac-VHT40 MCS0	167	5835		14.5		14.5		17.5	
		175	5875		14.5		14.5		17.5	
	802.11ac-VHT80 MCS0	171	5855	14.50	14.5	14.40	14.5	17.46	17.5	88.20
	802.11ax-HE20 MCS0	169	5845	not required	14.5	not required	14.5	not required	17.5	not required
		173	5865		14.5		14.5		17.5	
		177	5885		14.5		14.5		17.5	
	802.11ax-HE40 MCS0	167	5835		14.5		14.5		17.5	
		175	5875		14.5		14.5		17.5	
	802.11ax-HE80 MCS0	171	5855		14.5		14.5		17.5	

12. RF Exposure position consideration

Distance of the Antenna to the EUT surface/edge						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WLAN/BT Ant 4+3	≤ 25mm	≤ 25mm	≤ 25mm	> 25mm	≤ 25mm	≤ 25mm

Positions for SAR tests; Hotspot mode						
Antennas	Front	Back	Top Side	Bottom Side	Right Side	Left Side
WLAN/BT Ant 4+3	Yes	Yes	Yes	No	Yes	Yes

General Note:

- According KDB 941225 D07, the devices must be tested for 1-g SAR on all surfaces and side edges with a transmitting antenna located at ≤ 25 mm from that surface or edge.
- The antenna location is illustrated in the Appendix D.

13. RF Exposure Test Result

General Note:

- Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8W/kg.
- Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
- For UNII-4 WLAN product specific SAR is required since it does not support hotspot operation and the overall diagonal distance is > 16cm.

WLAN Note:

- When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
- For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- WiFi 5.8G UNII4 does not support SISO mode, so standalone SAR was only tested in MIMO mode operation
- Per Oct 2022 TCB Workshop notes, since UNII-4 and UNII-3 maximum output powers are the same, they can be handled as a single band. UNII-3 worst case SAR configuration (refer to Sporton Report No.: FA0D2942-05C) was tested with UNII-4 channel and bandwidth for Head and Body-worn. The product specific SAR for UNII-4 was evaluated with all positions since it does not support hotspot operation
- For UNII-4 and UNII-3 share similar frequency, therefore, for UNII-4 was select UNII3 worst head and body-worn exposure position from Sporton Report No.: FA0D2942-05C perform, since the UNII-4 does not hotspot operation, therefore, produce specific full evaluation is required.
- During SAR testing the WLAN transmission was verified using a spectrum analyzer.

13.1 Head SAR

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	1	171	5855	14.50	15.50	1.259	88.20	1.134	-0.16	0.711	1.015
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	1	171	5855	14.40	15.50	1.288	88.20	1.134	-0.16	0.138	0.202
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(4)	1	167	5835	14.10	15.00	1.230	96.80	1.033	0.06	0.804	1.022
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(3)	1	167	5835	14.30	15.00	1.175	96.80	1.033	0.06	0.161	0.195
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	2	171	5855	14.50	14.50	1.000	88.2	1.134	-0.16	0.711	0.806
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	2	171	5855	14.40	14.50	1.023	88.2	1.134	-0.16	0.138	0.160
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(4)	2	167	5835	14.10	14.50	1.096	96.80	1.033	0.06	0.804	0.911
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(3)	2	167	5835	14.30	14.50	1.047	96.80	1.033	0.06	0.161	0.174
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	3	171	5855	10.80	11.00	1.047	88.2	1.134	-0.07	0.302	0.359
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	3	171	5855	11.00	11.00	1.000	88.2	1.134	-0.07	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(4)	4	171	5855	10.80	11.50	1.175	88.2	1.134	-0.07	0.302	0.402
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Tilted	0mm	Ant 4+3(3)	4	171	5855	11.00	11.50	1.122	88.2	1.134	-0.07	0.001	0.001

13.2 Body Worn Accessory SAR

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
02	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	5	171	5855	19.50	20.00	1.122	88.2	1.134	-0.09	0.637	0.810
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	5	171	5855	19.30	20.00	1.175	88.2	1.134	-0.09	0.322	0.429
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(4)	5	175	5875	18.90	19.50	1.148	96.9	1.032	-0.18	0.636	0.754
	WLAN5GHz	802.11n-HT40 MCS0	Back	10mm	Ant 4+3(3)	5	175	5875	19.00	19.50	1.122	96.9	1.032	-0.18	0.324	0.375
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	6	171	5855	19.50	19.50	1.000	88.2	1.134	-0.09	0.637	0.722
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	6	171	5855	19.30	19.50	1.047	88.2	1.134	-0.09	0.322	0.382
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	7	171	5855	18.00	18.00	1.000	88.2	1.134	-0.19	0.454	0.515
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	7	171	5855	17.70	18.00	1.072	88.2	1.134	-0.19	0.217	0.264
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	9	171	5855	14.50	15.00	1.122	88.2	1.134	0.17	0.187	0.238
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	9	171	5855	14.40	15.00	1.148	88.2	1.134	0.17	0.086	0.112
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(4)	8	171	5855	14.50	14.50	1.000	88.2	1.134	0.17	0.187	0.212
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	10mm	Ant 4+3(3)	8	171	5855	14.40	14.50	1.023	88.2	1.134	0.17	0.086	0.100

**13.3 Product Specific SAR****<WLAN SAR>**

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
03	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	5	171	5855	19.50	20.00	1.122	88.2	1.134	-0.13	2.080	2.647
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	5	171	5855	19.30	20.00	1.175	88.2	1.134	-0.13	1.150	1.532
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+3(4)	5	175	5875	18.90	19.50	1.148	96.9	1.032	-0.17	2.020	2.393
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+3(3)	5	175	5875	19.00	19.50	1.122	96.9	1.032	-0.17	1.190	1.378
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(4)	5	171	5855	19.50	20.00	1.122	88.2	1.134	-0.1	0.984	1.252
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(3)	5	171	5855	19.30	20.00	1.175	88.2	1.134	-0.1	0.971	1.294
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(4)	5	171	5855	19.50	20.00	1.122	88.2	1.134	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	5	171	5855	19.30	20.00	1.175	88.2	1.134	-0.15	1.730	2.305
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(4)	5	171	5855	19.50	20.00	1.122	88.2	1.134	0.15	0.590	0.751
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(3)	5	171	5855	19.30	20.00	1.175	88.2	1.134	0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(4)	5	171	5855	19.50	20.00	1.122	88.2	1.134	-0.16	1.780	2.265
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(3)	5	171	5855	19.30	20.00	1.175	88.2	1.134	-0.16	0.377	0.502
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+3(4)	5	175	5875	18.90	19.50	1.148	96.9	1.032	-0.12	1.790	2.121
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+3(3)	5	175	5875	19.00	19.50	1.122	96.9	1.032	-0.12	0.379	0.439
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	6	171	5855	19.50	19.50	1.000	88.2	1.134	-0.13	2.080	2.359
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	6	171	5855	19.30	19.50	1.047	88.2	1.134	-0.13	1.150	1.366
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+3(4)	6	175	5875	18.90	19.00	1.023	96.90	1.032	-0.17	2.020	2.133
	WLAN5GHz	802.11n-HT40 MCS0	Front	0mm	Ant 4+3(3)	6	175	5875	19.00	19.00	1.000	96.90	1.032	-0.17	1.190	1.228
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(4)	6	171	5855	19.50	19.50	1.000	88.2	1.134	-0.1	0.984	1.116
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(3)	6	171	5855	19.30	19.50	1.047	88.2	1.134	-0.1	0.971	1.153
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(4)	6	171	5855	19.50	19.50	1.000	88.2	1.134	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	6	171	5855	19.30	19.50	1.047	88.2	1.134	-0.15	1.730	2.054
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(4)	6	171	5855	19.50	19.50	1.000	88.2	1.134	0.15	0.590	0.669
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(3)	6	171	5855	19.30	19.50	1.047	88.2	1.134	0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(4)	6	171	5855	19.50	19.50	1.000	88.2	1.134	-0.16	1.780	2.019
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(3)	6	171	5855	19.30	19.50	1.047	88.2	1.134	-0.16	0.377	0.448
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+3(4)	6	175	5875	18.90	19.00	1.023	96.90	1.032	-0.12	1.790	1.890
	WLAN5GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 4+3(3)	6	175	5875	19.00	19.00	1.000	96.90	1.032	-0.12	0.379	0.391
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	7	171	5855	18.00	18.00	1.000	88.2	1.134	-0.12	1.390	1.576
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	7	171	5855	17.70	18.00	1.072	88.2	1.134	-0.12	0.788	0.958
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(4)	7	171	5855	18.00	18.00	1.000	88.2	1.134	-0.12	0.685	0.777
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(3)	7	171	5855	17.70	18.00	1.072	88.2	1.134	-0.12	0.711	0.864
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(4)	7	171	5855	18.00	18.00	1.000	88.2	1.134	-0.17	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	7	171	5855	17.70	18.00	1.072	88.2	1.134	-0.17	1.250	1.519
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(4)	7	171	5855	18.00	18.00	1.000	88.2	1.134	0.06	0.377	0.428
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(3)	7	171	5855	17.70	18.00	1.072	88.2	1.134	0.06	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(4)	7	171	5855	18.00	18.00	1.000	88.2	1.134	-0.13	1.120	1.270
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(3)	7	171	5855	17.70	18.00	1.072	88.2	1.134	-0.13	0.229	0.278



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	9	171	5855	14.50	15.00	1.122	88.2	1.134	-0.12	0.583	0.742
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	9	171	5855	14.40	15.00	1.148	88.2	1.134	-0.12	0.324	0.422
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(4)	9	171	5855	14.50	15.00	1.122	88.2	1.134	-0.09	0.268	0.341
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(3)	9	171	5855	14.40	15.00	1.148	88.2	1.134	-0.09	0.282	0.367
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(4)	9	171	5855	14.50	15.00	1.122	88.2	1.134	0.09	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	9	171	5855	14.40	15.00	1.148	88.2	1.134	0.09	0.555	0.723
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(4)	9	171	5855	14.50	15.00	1.122	88.2	1.134	-0.15	0.161	0.205
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(3)	9	171	5855	14.40	15.00	1.148	88.2	1.134	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(4)	9	171	5855	14.50	15.00	1.122	88.2	1.134	-0.09	0.522	0.664
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(3)	9	171	5855	14.40	15.00	1.148	88.2	1.134	-0.09	0.084	0.109
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	8	171	5855	14.50	14.50	1.000	88.2	1.134	-0.12	0.583	0.661
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	8	171	5855	14.40	14.50	1.023	88.2	1.134	-0.12	0.324	0.376
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(4)	8	171	5855	14.50	14.50	1.000	88.2	1.134	-0.09	0.268	0.304
	WLAN5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 4+3(3)	8	171	5855	14.40	14.50	1.023	88.2	1.134	-0.09	0.282	0.327
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(4)	8	171	5855	14.50	14.50	1.000	88.2	1.134	0.09	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Left Side	0mm	Ant 4+3(3)	8	171	5855	14.40	14.50	1.023	88.2	1.134	0.09	0.555	0.644
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(4)	8	171	5855	14.50	14.50	1.000	88.2	1.134	-0.15	0.161	0.183
	WLAN5GHz	802.11ac-VHT80 MCS0	Right Side	0mm	Ant 4+3(3)	8	171	5855	14.40	14.50	1.023	88.2	1.134	-0.15	0.001	0.001
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(4)	8	171	5855	14.50	14.50	1.000	88.2	1.134	-0.09	0.522	0.592
	WLAN5GHz	802.11ac-VHT80 MCS0	Top Side	0mm	Ant 4+3(3)	8	171	5855	14.40	14.50	1.023	88.2	1.134	-0.09	0.084	0.097

13.4 Repeated SAR Measurement

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(4)	1	167	5835	14.10	15.00	1.230	96.80	1.033	0.06	0.804	-	1.022
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(3)	1	167	5835	14.30	15.00	1.175	96.80	1.033	0.06	0.161	-	0.195
2nd	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(4)	1	167	5835	14.10	15.00	1.230	96.80	1.033	0.05	0.801	1.003	1.018
	WLAN5GHz	802.11n-HT40 MCS0	Left Tilted	0mm	Ant 4+3(3)	1	167	5835	14.30	15.00	1.175	96.80	1.033	0.05	0.169	0.952	0.205

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Index	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	5	171	5855	19.50	20.00	1.122	88.2	1.134	-0.13	2.080	-	2.647
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	5	171	5855	19.30	20.00	1.175	88.2	1.134	-0.13	1.150	-	1.532
2nd	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(4)	5	171	5855	19.50	20.00	1.122	88.2	1.134	-0.17	2.000	1.040	2.545
	WLAN5GHz	802.11ac-VHT80 MCS0	Front	0mm	Ant 4+3(3)	5	171	5855	19.30	20.00	1.175	88.2	1.134	-0.17	1.180	0.974	1.572

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/kg}$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/kg}$, only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured* SAR.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

14. Simultaneous Transmission Analysis

Portable Condition	Tx mode	Capable TX Configurations	WWAN Power	WiFi	BT
				Power	Power
Head	WWAN standalone	WWAN	Index 2		
	WiFi standalone	WiFi 2.4G MIMO/CDD (Ant4+3)		Index 1	
		WiFi 5G MIMO (Ant4+3)			
		WiFi 6E MIMO (Ant4+3)			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3)		Index 2 (RSDB)	
		WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3)			
		BT standalone		Bluetooth (Ant4) (BDR/EDR Only)	
	Bluetooth (Ant3) (BDR/EDR Only)				
	Bluetooth (Ant4+3) (BDR/EDR Only)				
	WiFi +BT	WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)		Index 1	Index 1
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3)			
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3)			
	WWAN + WiFi	WWAN + WiFi 2.4G MIMO/CDD (Ant4+3)	Index 3 / Index 7 (Hostpot on)	Index 3	
		WWAN + WiFi 5G MIMO (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant4+3)		Index 4 (RSDB)	
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3)			
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3)			
	WWAN + BT	WWAN + Bluetooth (Ant4) (BDR/EDR Only)	Index 3 / Index 7 (Hostpot on)		Index 1
		WWAN + Bluetooth (Ant3) (BDR/EDR Only)			
		WWAN + Bluetooth (Ant4+3) (BDR/EDR Only)			
	WWAN + WiFi + BT	WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)	Index 3 / Index 7 (Hostpot on)	Index 3	Index 1
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3)			
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
		WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3)			
		WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3)			

Portable Condition	Tx mode	Capable TX Configurations	WWAN Power	WiFi	BT
				Power	Power
Body	WWAN standalone	WWAN	Index 5		
	WiFi standalone	WiFi 2.4G MIMO/CDD (Ant4+3)		Index 5	
		WiFi 5G MIMO (Ant4+3)			
		WiFi 6E MIMO (Ant4+3)		Index 6 (RSDB)	
		WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3)			
		WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3)			
	BT standalone	Bluetooth (Ant4) (BDR/EDR Only)			Index 2
		Bluetooth (Ant3) (BDR/EDR Only)			
		Bluetooth (Ant4+3) (BDR/EDR Only)			
	WiFi +BT	WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)		Index 5	Index 3
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3)			
		WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3)			
		WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3)			
	WWAN + WiFi	WWAN + WiFi 2.4G MIMO/CDD (Ant4+3)	Index 6 / Index 4 (Hostpot on)	Index 7	
		WWAN + WiFi 5G MIMO (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant4+3)		Index 8 (RSDB)	
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 5G MIMO (Ant4+3)			
		WWAN + WiFi 2.4G MIMO (Ant4+3) + WiFi 6E MIMO (Ant4+3)			
	WWAN + BT	WWAN + Bluetooth (Ant4) (BDR/EDR Only)	Index 6 / Index 4 (Hostpot on)		Index 3
		WWAN + Bluetooth (Ant3) (BDR/EDR Only)			
		WWAN + Bluetooth (Ant4+3) (BDR/EDR Only)			
	WWAN + WiFi +BT	WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4)	Index 6 / Index 4 (Hostpot on)	Index 9	Index 4
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant3)			
		WWAN + WiFi 5G MIMO (Ant4+3) + Bluetooth (Ant4+3)			
		WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4)			
		WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant3)			
		WWAN + WiFi 6E MIMO (Ant4+3) + Bluetooth (Ant4+3)			

General Note:

1. Simultaneous operation at maximum power levels when the device is neither against the body nor the head (i.e. in a mobile RF exposure condition) is addressed in Sporton's RF Exposure report FA0D2942-19A
2. The Sim-Tx configuration combination include in operation description will be match the title in the below Sum-Tx evaluation table.
3. This device only WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
4. The worst case WLAN SAR results between report no.: FA0D2942-05C and FA0D2942-19B are using for Sim-Tx analysis with other transmitters. Therefore, summations represent the absolute worst cases for Sim-Tx analysis for this device.
5. The Scaled SAR summation is calculated based on the same configuration and test position.
6. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

14.1 5G NR + LTE + WLAN + BT Sim-Tx analysis

The power ratio factors are g_1 and g_2 for LTE and NR respectively. The main purpose of these power ratio factors is to split the available SAR budget among different RATs, so $g_1 + g_2 \leq 1$. The value of g_1 is computed based on the need of the anchor (LTE) and can be changed if the anchor changes its power request. Based on the SAR Budget portion allocated to the anchor, the value of g_2 will be computed. At steady state (where all RATs are being on for a while), the allocated power ratio factors will guarantee that the total exposure ratio never exceeds the highest exposure of either one.

$$g_1 * LTE_{exposure} + g_2 * NR_{exposure} \leq 1.0,$$

$$\text{then, } g_1 * LTE_{exposure} + g_2 * NR_{exposure} \leq \max (LTE_{exposure}, NR_{exposure})$$

Compliance of simultaneous transmission of LTE+5GNR+WiFi+BT can be justified from the compliance of LTE+WiFi +BT and 5GNR+WiFi+BT

14.2 Head Exposure Conditions

<WLAN Index 1, BT Index 1>

Exposure Position	2	3	4	5	2+3 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	2+5 Summed 1g SAR (W/kg)
	5/6GHz WLAN Ant 4+3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 4+3 1g SAR (W/kg)			
Right Cheek	1.109	0.062	0.115	0.210	1.171	1.224	1.319
Right Tilted	0.850	0.080	0.218	0.449	0.930	1.068	1.299
Left Cheek	1.102	0.192	0.098	0.168	1.294	1.200	1.270
Left Tilted	1.070	0.241	0.130	0.237	1.311	1.200	1.307

<WLAN Index 2>

Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 4+3	
	1g SAR (W/kg)	1g SAR (W/kg)	
Right Cheek	0.486	0.988	1.474
Right Tilted	0.558	0.755	1.313
Left Cheek	0.359	0.983	1.342
Left Tilted	0.481	0.912	1.393

**FCC SAR TEST REPORT**

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<WWAN Index 3, WLAN Index 3, BT Index 1>

WWAN Band	Exposure Position	1	2	3	4	5	6	1+3+4 Summed 1g SAR (W/kg)	1+3+5 Summed 1g SAR (W/kg)	1+3+6 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 4+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3								
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)								
GSM850_Ant 0	Right Cheek	0.251	0.352	0.402	0.062	0.115	0.210	0.715	0.768	0.863	0.653	0.603	0.313	0.366	0.461
	Right Tilted	0.163	0.645	0.237	0.080	0.218	0.449	0.480	0.618	0.849	0.400	0.808	0.243	0.381	0.612
	Left Cheek	0.403	0.440	0.355	0.192	0.098	0.168	0.950	0.856	0.926	0.758	0.843	0.595	0.501	0.571
	Left Tilted	0.251	0.553	0.372	0.241	0.130	0.237	0.864	0.753	0.860	0.623	0.804	0.492	0.381	0.488
GSM1900_Ant 2	Right Cheek	0.122	0.352	0.402	0.062	0.115	0.210	0.586	0.639	0.734	0.524	0.474	0.184	0.237	0.332
	Right Tilted	0.073	0.645	0.237	0.080	0.218	0.449	0.390	0.528	0.759	0.310	0.718	0.153	0.291	0.522
	Left Cheek	0.096	0.440	0.355	0.192	0.098	0.168	0.643	0.549	0.619	0.451	0.536	0.288	0.194	0.264
	Left Tilted	0.076	0.553	0.372	0.241	0.130	0.237	0.689	0.578	0.685	0.448	0.629	0.317	0.206	0.313
WCDMA II_Ant 2	Right Cheek	0.142	0.352	0.402	0.062	0.115	0.210	0.606	0.659	0.754	0.544	0.494	0.204	0.257	0.352
	Right Tilted	0.001	0.645	0.237	0.080	0.218	0.449	0.318	0.456	0.687	0.238	0.646	0.081	0.219	0.450
	Left Cheek	0.130	0.440	0.355	0.192	0.098	0.168	0.677	0.583	0.653	0.485	0.570	0.322	0.228	0.298
	Left Tilted	0.044	0.553	0.372	0.241	0.130	0.237	0.657	0.546	0.653	0.416	0.597	0.285	0.174	0.281
WCDMA IV_Ant 2	Right Cheek	0.280	0.352	0.402	0.062	0.115	0.210	0.744	0.797	0.892	0.682	0.632	0.342	0.395	0.490
	Right Tilted	0.001	0.645	0.237	0.080	0.218	0.449	0.318	0.456	0.687	0.238	0.646	0.081	0.219	0.450
	Left Cheek	0.137	0.440	0.355	0.192	0.098	0.168	0.684	0.590	0.660	0.492	0.577	0.329	0.235	0.305
	Left Tilted	0.001	0.553	0.372	0.241	0.130	0.237	0.614	0.503	0.610	0.373	0.554	0.242	0.131	0.238
WCDMA V_Ant 0	Right Cheek	0.229	0.352	0.402	0.062	0.115	0.210	0.693	0.746	0.841	0.631	0.581	0.291	0.344	0.439
	Right Tilted	0.064	0.645	0.237	0.080	0.218	0.449	0.381	0.519	0.750	0.301	0.709	0.144	0.282	0.513
	Left Cheek	0.321	0.440	0.355	0.192	0.098	0.168	0.868	0.774	0.844	0.676	0.761	0.513	0.419	0.489
	Left Tilted	0.122	0.553	0.372	0.241	0.130	0.237	0.735	0.624	0.731	0.494	0.675	0.363	0.252	0.359
LTE Band 7_Ant 2	Right Cheek	0.450	0.352	0.402	0.062	0.115	0.210	0.914	0.967	1.062	0.852	0.802	0.512	0.565	0.660
	Right Tilted	0.243	0.645	0.237	0.080	0.218	0.449	0.560	0.698	0.929	0.480	0.888	0.323	0.461	0.692
	Left Cheek	0.312	0.440	0.355	0.192	0.098	0.168	0.859	0.765	0.835	0.667	0.752	0.504	0.410	0.480
	Left Tilted	0.282	0.553	0.372	0.241	0.130	0.237	0.895	0.784	0.891	0.654	0.835	0.523	0.412	0.519
LTE Band 12_Ant 0	Right Cheek	0.208	0.352	0.402	0.062	0.115	0.210	0.672	0.725	0.820	0.610	0.560	0.270	0.323	0.418
	Right Tilted	0.123	0.645	0.237	0.080	0.218	0.449	0.440	0.578	0.809	0.360	0.768	0.203	0.341	0.572
	Left Cheek	0.289	0.440	0.355	0.192	0.098	0.168	0.836	0.742	0.812	0.644	0.729	0.481	0.387	0.457
	Left Tilted	0.158	0.553	0.372	0.241	0.130	0.237	0.771	0.660	0.767	0.530	0.711	0.399	0.288	0.395
LTE Band 13_Ant 0	Right Cheek	0.240	0.352	0.402	0.062	0.115	0.210	0.704	0.757	0.852	0.642	0.592	0.302	0.355	0.450
	Right Tilted	0.152	0.645	0.237	0.080	0.218	0.449	0.469	0.607	0.838	0.389	0.797	0.232	0.370	0.601
	Left Cheek	0.328	0.440	0.355	0.192	0.098	0.168	0.875	0.781	0.851	0.683	0.768	0.520	0.426	0.496
	Left Tilted	0.220	0.553	0.372	0.241	0.130	0.237	0.833	0.722	0.829	0.592	0.773	0.461	0.350	0.457
LTE Band 14_Ant 0	Right Cheek	0.254	0.352	0.402	0.062	0.115	0.210	0.718	0.771	0.866	0.656	0.606	0.316	0.369	0.464
	Right Tilted	0.154	0.645	0.237	0.080	0.218	0.449	0.471	0.609	0.840	0.391	0.799	0.234	0.372	0.603
	Left Cheek	0.344	0.440	0.355	0.192	0.098	0.168	0.891	0.797	0.867	0.699	0.784	0.536	0.442	0.512
	Left Tilted	0.211	0.553	0.372	0.241	0.130	0.237	0.824	0.713	0.820	0.583	0.764	0.452	0.341	0.448
LTE Band 25_Ant 2	Right Cheek	0.128	0.352	0.402	0.062	0.115	0.210	0.592	0.645	0.740	0.530	0.480	0.190	0.243	0.338
	Right Tilted	0.079	0.645	0.237	0.080	0.218	0.449	0.396	0.534	0.765	0.316	0.724	0.159	0.297	0.528
	Left Cheek	0.109	0.440	0.355	0.192	0.098	0.168	0.656	0.562	0.632	0.464	0.549	0.301	0.207	0.277
	Left Tilted	0.096	0.553	0.372	0.241	0.130	0.237	0.709	0.598	0.705	0.468	0.649	0.337	0.226	0.333
LTE Band 26_Ant 0	Right Cheek	0.214	0.352	0.402	0.062	0.115	0.210	0.678	0.731	0.826	0.616	0.566	0.276	0.329	0.424
	Right Tilted	0.141	0.645	0.237	0.080	0.218	0.449	0.458	0.596	0.827	0.378	0.786	0.221	0.359	0.590
	Left Cheek	0.309	0.440	0.355	0.192	0.098	0.168	0.856	0.762	0.832	0.664	0.749	0.501	0.407	0.477
	Left Tilted	0.158	0.553	0.372	0.241	0.130	0.237	0.771	0.660	0.767	0.530	0.711	0.399	0.288	0.395
LTE Band 30_Ant 2	Right Cheek	0.228	0.352	0.402	0.062	0.115	0.210	0.692	0.745	0.840	0.630	0.580	0.290	0.343	0.438
	Right Tilted	0.096	0.645	0.237	0.080	0.218	0.449	0.413	0.551	0.782	0.333	0.741	0.176	0.314	0.545
	Left Cheek	0.116	0.440	0.355	0.192	0.098	0.168	0.663	0.569	0.639	0.471	0.556	0.308	0.214	0.284
	Left Tilted	0.101	0.553	0.372	0.241	0.130	0.237	0.714	0.603	0.710	0.473	0.654	0.342	0.231	0.338
LTE Band 41_Ant 2	Right Cheek	0.272	0.352	0.402	0.062	0.115	0.210	0.736	0.789	0.884	0.674	0.624	0.334	0.387	0.482
	Right Tilted	0.090	0.645	0.237	0.080	0.218	0.449	0.407	0.545	0.776	0.327	0.735	0.170	0.308	0.539

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	Left Cheek	0.165	0.440	0.355	0.192	0.098	0.168	0.712	0.618	0.688	0.520	0.605	0.357	0.263	0.333
	Left Tilted	0.124	0.553	0.372	0.241	0.130	0.237	0.737	0.626	0.733	0.496	0.677	0.365	0.254	0.361
LTE Band 48_Ant 6	Right Cheek	0.280	0.352	0.402	0.062	0.115	0.210	0.744	0.797	0.892	0.682	0.632	0.342	0.395	0.490
	Right Tilted	0.233	0.645	0.237	0.080	0.218	0.449	0.550	0.688	0.919	0.470	0.878	0.313	0.451	0.682
	Left Cheek	0.450	0.440	0.355	0.192	0.098	0.168	0.997	0.903	0.973	0.805	0.890	0.642	0.548	0.618
	Left Tilted	0.161	0.553	0.372	0.241	0.130	0.237	0.774	0.663	0.770	0.533	0.714	0.402	0.291	0.398
LTE Band 66_Ant 2	Right Cheek	0.208	0.352	0.402	0.062	0.115	0.210	0.672	0.725	0.820	0.610	0.560	0.270	0.323	0.418
	Right Tilted	0.130	0.645	0.237	0.080	0.218	0.449	0.447	0.585	0.816	0.367	0.775	0.210	0.348	0.579
	Left Cheek	0.138	0.440	0.355	0.192	0.098	0.168	0.685	0.591	0.661	0.493	0.578	0.330	0.236	0.306
	Left Tilted	0.112	0.553	0.372	0.241	0.130	0.237	0.725	0.614	0.721	0.484	0.665	0.353	0.242	0.349
LTE Band 71_Ant 0	Right Cheek	0.204	0.352	0.402	0.062	0.115	0.210	0.668	0.721	0.816	0.606	0.556	0.266	0.319	0.414
	Right Tilted	0.113	0.645	0.237	0.080	0.218	0.449	0.430	0.568	0.799	0.350	0.758	0.193	0.331	0.562
	Left Cheek	0.276	0.440	0.355	0.192	0.098	0.168	0.823	0.729	0.799	0.631	0.716	0.468	0.374	0.444
	Left Tilted	0.149	0.553	0.372	0.241	0.130	0.237	0.762	0.651	0.758	0.521	0.702	0.390	0.279	0.386
FR1 n5_Ant 0	Right Cheek	0.208	0.352	0.402	0.062	0.115	0.210	0.672	0.725	0.820	0.610	0.560	0.270	0.323	0.418
	Right Tilted	0.127	0.645	0.237	0.080	0.218	0.449	0.444	0.582	0.813	0.364	0.772	0.207	0.345	0.576
	Left Cheek	0.281	0.440	0.355	0.192	0.098	0.168	0.828	0.734	0.804	0.636	0.721	0.473	0.379	0.449
	Left Tilted	0.168	0.553	0.372	0.241	0.130	0.237	0.781	0.670	0.777	0.540	0.721	0.409	0.298	0.405
FR1 n7_Ant 2	Right Cheek	0.356	0.352	0.402	0.062	0.115	0.210	0.820	0.873	0.968	0.758	0.708	0.418	0.471	0.566
	Right Tilted	0.164	0.645	0.237	0.080	0.218	0.449	0.481	0.619	0.850	0.401	0.809	0.244	0.382	0.613
	Left Cheek	0.076	0.440	0.355	0.192	0.098	0.168	0.623	0.529	0.599	0.431	0.516	0.268	0.174	0.244
	Left Tilted	0.067	0.553	0.372	0.241	0.130	0.237	0.680	0.569	0.676	0.439	0.620	0.308	0.197	0.304
FR1 n12_Ant 0	Right Cheek	0.177	0.352	0.402	0.062	0.115	0.210	0.641	0.694	0.789	0.579	0.529	0.239	0.292	0.387
	Right Tilted	0.113	0.645	0.237	0.080	0.218	0.449	0.430	0.568	0.799	0.350	0.758	0.193	0.331	0.562
	Left Cheek	0.242	0.440	0.355	0.192	0.098	0.168	0.789	0.695	0.765	0.597	0.682	0.434	0.340	0.410
	Left Tilted	0.153	0.553	0.372	0.241	0.130	0.237	0.766	0.655	0.762	0.525	0.706	0.394	0.283	0.390
FR1 n25_Ant 2	Right Cheek	0.101	0.352	0.402	0.062	0.115	0.210	0.565	0.618	0.713	0.503	0.453	0.163	0.216	0.311
	Right Tilted	0.067	0.645	0.237	0.080	0.218	0.449	0.384	0.522	0.753	0.304	0.712	0.147	0.285	0.516
	Left Cheek	0.121	0.440	0.355	0.192	0.098	0.168	0.668	0.574	0.644	0.476	0.561	0.313	0.219	0.289
	Left Tilted	0.098	0.553	0.372	0.241	0.130	0.237	0.711	0.600	0.707	0.470	0.651	0.339	0.228	0.335
FR1 n30_Ant 2	Right Cheek	0.200	0.352	0.402	0.062	0.115	0.210	0.664	0.717	0.812	0.602	0.552	0.262	0.315	0.410
	Right Tilted	0.084	0.645	0.237	0.080	0.218	0.449	0.401	0.539	0.770	0.321	0.729	0.164	0.302	0.533
	Left Cheek	0.117	0.440	0.355	0.192	0.098	0.168	0.664	0.570	0.640	0.472	0.557	0.309	0.215	0.285
	Left Tilted	0.119	0.553	0.372	0.241	0.130	0.237	0.732	0.621	0.728	0.491	0.672	0.360	0.249	0.356
FR1 n41_Ant 5	Right Cheek	0.311	0.352	0.402	0.062	0.115	0.210	0.775	0.828	0.923	0.713	0.663	0.373	0.426	0.521
	Right Tilted	0.150	0.645	0.237	0.080	0.218	0.449	0.467	0.605	0.836	0.387	0.795	0.230	0.368	0.599
	Left Cheek	0.886	0.440	0.355	0.192	0.098	0.168	1.433	1.339	1.409	1.241	1.326	1.078	0.984	1.054
	Left Tilted	0.244	0.553	0.372	0.241	0.130	0.237	0.857	0.746	0.853	0.616	0.797	0.485	0.374	0.481
FR1 n66_Ant 2	Right Cheek	0.225	0.352	0.402	0.062	0.115	0.210	0.689	0.742	0.837	0.627	0.577	0.287	0.340	0.435
	Right Tilted	0.157	0.645	0.237	0.080	0.218	0.449	0.474	0.612	0.843	0.394	0.802	0.237	0.375	0.606
	Left Cheek	0.160	0.440	0.355	0.192	0.098	0.168	0.707	0.613	0.683	0.515	0.600	0.352	0.258	0.328
	Left Tilted	0.118	0.553	0.372	0.241	0.130	0.237	0.731	0.620	0.727	0.490	0.671	0.359	0.248	0.355
FR1 n71_Ant 0	Right Cheek	0.184	0.352	0.402	0.062	0.115	0.210	0.648	0.701	0.796	0.586	0.536	0.246	0.299	0.394
	Right Tilted	0.106	0.645	0.237	0.080	0.218	0.449	0.423	0.561	0.792	0.343	0.751	0.186	0.324	0.555
	Left Cheek	0.244	0.440	0.355	0.192	0.098	0.168	0.791	0.697	0.767	0.599	0.684	0.436	0.342	0.412
	Left Tilted	0.146	0.553	0.372	0.241	0.130	0.237	0.759	0.648	0.755	0.518	0.699	0.387	0.276	0.383
FR1 n77_Ant 6	Right Cheek	0.546	0.352	0.402	0.062	0.115	0.210	1.010	1.063	1.158	0.948	0.898	0.608	0.661	0.756
	Right Tilted	0.395	0.645	0.237	0.080	0.218	0.449	0.712	0.850	1.081	0.632	1.040	0.475	0.613	0.844
	Left Cheek	0.846	0.440	0.355	0.192	0.098	0.168	1.393	1.299	1.369	1.201	1.286	1.038	0.944	1.014
	Left Tilted	0.300	0.553	0.372	0.241	0.130	0.237	0.913	0.802	0.909	0.672	0.853	0.541	0.430	0.537



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<WWAN Index 3, WLAN Index 3, BT Index 1>

WWAN Band	Exposure Position	1	2	3	4	5	6	1+3+4	1+3+5	1+3+6	1+3	1+2	1+4	1+5	1+6
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 4+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850_Ant 1	Right Cheek	0.641	0.352	0.402	0.062	0.115	0.210	1.105	1.158	1.253	1.043	0.993	0.703	0.756	0.851
	Right Tilted	0.771	0.645	0.237	0.080	0.218	0.449	1.088	1.226	1.457	1.008	1.416	0.851	0.989	1.220
	Left Cheek	0.319	0.440	0.355	0.192	0.098	0.168	0.866	0.772	0.842	0.674	0.759	0.511	0.417	0.487
	Left Tilted	0.311	0.553	0.372	0.241	0.130	0.237	0.924	0.813	0.920	0.683	0.864	0.552	0.441	0.548
GSM1900_Ant 0	Right Cheek	0.184	0.352	0.402	0.062	0.115	0.210	0.648	0.701	0.796	0.586	0.536	0.246	0.299	0.394
	Right Tilted	0.161	0.645	0.237	0.080	0.218	0.449	0.478	0.616	0.847	0.398	0.806	0.241	0.379	0.610
	Left Cheek	0.460	0.440	0.355	0.192	0.098	0.168	1.007	0.913	0.983	0.815	0.900	0.652	0.558	0.628
	Left Tilted	0.172	0.553	0.372	0.241	0.130	0.237	0.785	0.674	0.781	0.544	0.725	0.413	0.302	0.409
WCDMA II_Ant 0	Right Cheek	0.138	0.352	0.402	0.062	0.115	0.210	0.602	0.655	0.750	0.540	0.490	0.200	0.253	0.348
	Right Tilted	0.051	0.645	0.237	0.080	0.218	0.449	0.368	0.506	0.737	0.288	0.696	0.131	0.269	0.500
	Left Cheek	0.470	0.440	0.355	0.192	0.098	0.168	1.017	0.923	0.993	0.825	0.910	0.662	0.568	0.638
	Left Tilted	0.152	0.553	0.372	0.241	0.130	0.237	0.765	0.654	0.761	0.524	0.705	0.393	0.282	0.389
WCDMA IV_Ant 0	Right Cheek	0.180	0.352	0.402	0.062	0.115	0.210	0.644	0.697	0.792	0.582	0.532	0.242	0.295	0.390
	Right Tilted	0.144	0.645	0.237	0.080	0.218	0.449	0.461	0.599	0.830	0.381	0.789	0.224	0.362	0.593
	Left Cheek	0.359	0.440	0.355	0.192	0.098	0.168	0.906	0.812	0.882	0.714	0.799	0.551	0.457	0.527
	Left Tilted	0.168	0.553	0.372	0.241	0.130	0.237	0.781	0.670	0.777	0.540	0.721	0.409	0.298	0.405
WCDMA V_Ant 1	Right Cheek	0.739	0.352	0.402	0.062	0.115	0.210	1.203	1.256	1.351	1.141	1.091	0.801	0.854	0.949
	Right Tilted	0.826	0.645	0.237	0.080	0.218	0.449	1.143	1.281	1.512	1.063	1.471	0.906	1.044	1.275
	Left Cheek	0.423	0.440	0.355	0.192	0.098	0.168	0.970	0.876	0.946	0.778	0.863	0.615	0.521	0.591
	Left Tilted	0.381	0.553	0.372	0.241	0.130	0.237	0.994	0.883	0.990	0.753	0.934	0.622	0.511	0.618
LTE Band 7_Ant 0	Right Cheek	0.193	0.352	0.402	0.062	0.115	0.210	0.657	0.710	0.805	0.595	0.545	0.255	0.308	0.403
	Right Tilted	0.096	0.645	0.237	0.080	0.218	0.449	0.413	0.551	0.782	0.333	0.741	0.176	0.314	0.545
	Left Cheek	0.435	0.440	0.355	0.192	0.098	0.168	0.982	0.888	0.958	0.790	0.875	0.627	0.533	0.603
	Left Tilted	0.157	0.553	0.372	0.241	0.130	0.237	0.770	0.659	0.766	0.529	0.710	0.398	0.287	0.394
LTE Band 12_Ant 1	Right Cheek	0.757	0.352	0.402	0.062	0.115	0.210	1.221	1.274	1.369	1.159	1.109	0.819	0.872	0.967
	Right Tilted	0.787	0.645	0.237	0.080	0.218	0.449	1.104	1.242	1.473	1.024	1.432	0.867	1.005	1.236
	Left Cheek	0.366	0.440	0.355	0.192	0.098	0.168	0.913	0.819	0.889	0.721	0.806	0.558	0.464	0.534
	Left Tilted	0.336	0.553	0.372	0.241	0.130	0.237	0.949	0.838	0.945	0.708	0.889	0.577	0.466	0.573
LTE Band 13_Ant 1	Right Cheek	0.747	0.352	0.402	0.062	0.115	0.210	1.211	1.264	1.359	1.149	1.099	0.809	0.862	0.957
	Right Tilted	0.908	0.645	0.237	0.080	0.218	0.449	1.225	1.363	1.594	1.145	1.553	0.988	1.126	1.357
	Left Cheek	0.341	0.440	0.355	0.192	0.098	0.168	0.888	0.794	0.864	0.696	0.781	0.533	0.439	0.509
	Left Tilted	0.291	0.553	0.372	0.241	0.130	0.237	0.904	0.793	0.900	0.663	0.844	0.532	0.421	0.528
LTE Band 14_Ant 1	Right Cheek	0.887	0.352	0.402	0.062	0.115	0.210	1.351	1.404	1.499	1.289	1.239	0.949	1.002	1.097
	Right Tilted	0.829	0.645	0.237	0.080	0.218	0.449	1.146	1.284	1.515	1.066	1.474	0.909	1.047	1.278
	Left Cheek	0.433	0.440	0.355	0.192	0.098	0.168	0.980	0.886	0.956	0.788	0.873	0.625	0.531	0.601
	Left Tilted	0.386	0.553	0.372	0.241	0.130	0.237	0.999	0.888	0.995	0.758	0.939	0.627	0.516	0.623
LTE Band 25_Ant 0	Right Cheek	0.256	0.352	0.402	0.062	0.115	0.210	0.720	0.773	0.868	0.658	0.608	0.318	0.371	0.466
	Right Tilted	0.157	0.645	0.237	0.080	0.218	0.449	0.474	0.612	0.843	0.394	0.802	0.237	0.375	0.606
	Left Cheek	0.469	0.440	0.355	0.192	0.098	0.168	1.016	0.922	0.992	0.824	0.909	0.661	0.567	0.637
	Left Tilted	0.185	0.553	0.372	0.241	0.130	0.237	0.798	0.687	0.794	0.557	0.738	0.426	0.315	0.422
LTE Band 26_Ant 1	Right Cheek	0.819	0.352	0.402	0.062	0.115	0.210	1.283	1.336	1.431	1.221	1.171	0.881	0.934	1.029
	Right Tilted	0.712	0.645	0.237	0.080	0.218	0.449	1.029	1.167	1.398	0.949	1.357	0.792	0.930	1.161
	Left Cheek	0.446	0.440	0.355	0.192	0.098	0.168	0.993	0.899	0.969	0.801	0.886	0.638	0.544	0.614
	Left Tilted	0.390	0.553	0.372	0.241	0.130	0.237	1.003	0.892	0.999	0.762	0.943	0.631	0.520	0.627
LTE Band 30_Ant 0	Right Cheek	0.161	0.352	0.402	0.062	0.115	0.210	0.625	0.678	0.773	0.563	0.513	0.223	0.276	0.371
	Right Tilted	0.139	0.645	0.237	0.080	0.218	0.449	0.456	0.594	0.825	0.376	0.784	0.219	0.357	0.588
	Left Cheek	0.384	0.440	0.355	0.192	0.098	0.168	0.931	0.837	0.907	0.739	0.824	0.576	0.482	0.552
	Left Tilted	0.110	0.553	0.372	0.241	0.130	0.237	0.723	0.612	0.719	0.482	0.663	0.351	0.240	0.347
LTE Band 41_Ant 0	Right Cheek	0.073	0.352	0.402	0.062	0.115	0.210	0.537	0.590	0.685	0.475	0.425	0.135	0.188	0.283
	Right Tilted	0.064	0.645	0.237	0.080	0.218	0.449	0.381	0.519	0.750	0.301	0.709	0.144	0.282	0.513
	Left Cheek	0.242	0.440	0.355	0.192	0.098	0.168	0.789	0.695	0.765	0.597	0.682	0.434	0.340	0.410



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	Left Tilted	0.046	0.553	0.372	0.241	0.130	0.237	0.659	0.548	0.655	0.418	0.599	0.287	0.176	0.283
LTE Band 48_Ant 2	Right Cheek	0.410	0.352	0.402	0.062	0.115	0.210	0.874	0.927	1.022	0.812	0.762	0.472	0.525	0.620
	Right Tilted	0.139	0.645	0.237	0.080	0.218	0.449	0.456	0.594	0.825	0.376	0.784	0.219	0.357	0.588
	Left Cheek	0.177	0.440	0.355	0.192	0.098	0.168	0.724	0.630	0.700	0.532	0.617	0.369	0.275	0.345
	Left Tilted	0.086	0.553	0.372	0.241	0.130	0.237	0.699	0.588	0.695	0.458	0.639	0.327	0.216	0.323
LTE Band 66_Ant 0	Right Cheek	0.241	0.352	0.402	0.062	0.115	0.210	0.705	0.758	0.853	0.643	0.593	0.303	0.356	0.451
	Right Tilted	0.201	0.645	0.237	0.080	0.218	0.449	0.518	0.656	0.887	0.438	0.846	0.281	0.419	0.650
	Left Cheek	0.467	0.440	0.355	0.192	0.098	0.168	1.014	0.920	0.990	0.822	0.907	0.659	0.565	0.635
	Left Tilted	0.191	0.553	0.372	0.241	0.130	0.237	0.804	0.693	0.800	0.563	0.744	0.432	0.321	0.428
LTE Band 71_Ant 1	Right Cheek	0.771	0.352	0.402	0.062	0.115	0.210	1.235	1.288	1.383	1.173	1.123	0.833	0.886	0.981
	Right Tilted	0.867	0.645	0.237	0.080	0.218	0.449	1.184	1.322	1.553	1.104	1.512	0.947	1.085	1.316
	Left Cheek	0.323	0.440	0.355	0.192	0.098	0.168	0.870	0.776	0.846	0.678	0.763	0.515	0.421	0.491
	Left Tilted	0.333	0.553	0.372	0.241	0.130	0.237	0.946	0.835	0.942	0.705	0.886	0.574	0.463	0.570
FR1 n5_Ant 1	Right Cheek	0.694	0.352	0.402	0.062	0.115	0.210	1.158	1.211	1.306	1.096	1.046	0.756	0.809	0.904
	Right Tilted	0.716	0.645	0.237	0.080	0.218	0.449	1.033	1.171	1.402	0.953	1.361	0.796	0.934	1.165
	Left Cheek	0.401	0.440	0.355	0.192	0.098	0.168	0.948	0.854	0.924	0.756	0.841	0.593	0.499	0.569
	Left Tilted	0.342	0.553	0.372	0.241	0.130	0.237	0.955	0.844	0.951	0.714	0.895	0.583	0.472	0.579
FR1 n7_Ant 0	Right Cheek	0.134	0.352	0.402	0.062	0.115	0.210	0.598	0.651	0.746	0.536	0.486	0.196	0.249	0.344
	Right Tilted	0.085	0.645	0.237	0.080	0.218	0.449	0.402	0.540	0.771	0.322	0.730	0.165	0.303	0.534
	Left Cheek	0.363	0.440	0.355	0.192	0.098	0.168	0.910	0.816	0.886	0.718	0.803	0.555	0.461	0.531
	Left Tilted	0.150	0.553	0.372	0.241	0.130	0.237	0.763	0.652	0.759	0.522	0.703	0.391	0.280	0.387
FR1 n12_Ant 1	Right Cheek	0.801	0.352	0.402	0.062	0.115	0.210	1.265	1.318	1.413	1.203	1.153	0.863	0.916	1.011
	Right Tilted	0.677	0.645	0.237	0.080	0.218	0.449	0.994	1.132	1.363	0.914	1.322	0.757	0.895	1.126
	Left Cheek	0.346	0.440	0.355	0.192	0.098	0.168	0.893	0.799	0.869	0.701	0.786	0.538	0.444	0.514
	Left Tilted	0.308	0.553	0.372	0.241	0.130	0.237	0.921	0.810	0.917	0.680	0.861	0.549	0.438	0.545
FR1 n25_Ant 0	Right Cheek	0.192	0.352	0.402	0.062	0.115	0.210	0.656	0.709	0.804	0.594	0.544	0.254	0.307	0.402
	Right Tilted	0.160	0.645	0.237	0.080	0.218	0.449	0.477	0.615	0.846	0.397	0.805	0.240	0.378	0.609
	Left Cheek	0.485	0.440	0.355	0.192	0.098	0.168	1.032	0.938	1.008	0.840	0.925	0.677	0.583	0.653
	Left Tilted	0.192	0.553	0.372	0.241	0.130	0.237	0.805	0.694	0.801	0.564	0.745	0.433	0.322	0.429
FR1 n30_Ant 0	Right Cheek	0.155	0.352	0.402	0.062	0.115	0.210	0.619	0.672	0.767	0.557	0.507	0.217	0.270	0.365
	Right Tilted	0.129	0.645	0.237	0.080	0.218	0.449	0.446	0.584	0.815	0.366	0.774	0.209	0.347	0.578
	Left Cheek	0.313	0.440	0.355	0.192	0.098	0.168	0.860	0.766	0.836	0.668	0.753	0.505	0.411	0.481
	Left Tilted	0.095	0.553	0.372	0.241	0.130	0.237	0.708	0.597	0.704	0.467	0.648	0.336	0.225	0.332
FR1 n41_Ant 1	Right Cheek	0.906	0.352	0.402	0.062	0.115	0.210	1.370	1.423	1.518	1.308	1.258	0.968	1.021	1.116
	Right Tilted	0.619	0.645	0.237	0.080	0.218	0.449	0.936	1.074	1.305	0.856	1.264	0.699	0.837	1.068
	Left Cheek	0.181	0.440	0.355	0.192	0.098	0.168	0.728	0.634	0.704	0.536	0.621	0.373	0.279	0.349
	Left Tilted	0.189	0.553	0.372	0.241	0.130	0.237	0.802	0.691	0.798	0.561	0.742	0.430	0.319	0.426
FR1 n66_Ant 0	Right Cheek	0.180	0.352	0.402	0.062	0.115	0.210	0.644	0.697	0.792	0.582	0.532	0.242	0.295	0.390
	Right Tilted	0.175	0.645	0.237	0.080	0.218	0.449	0.492	0.630	0.861	0.412	0.820	0.255	0.393	0.624
	Left Cheek	0.391	0.440	0.355	0.192	0.098	0.168	0.938	0.844	0.914	0.746	0.831	0.583	0.489	0.559
	Left Tilted	0.195	0.553	0.372	0.241	0.130	0.237	0.808	0.697	0.804	0.567	0.748	0.436	0.325	0.432
FR1 n71_Ant 1	Right Cheek	0.882	0.352	0.402	0.062	0.115	0.210	1.346	1.399	1.494	1.284	1.234	0.944	0.997	1.092
	Right Tilted	0.836	0.645	0.237	0.080	0.218	0.449	1.153	1.291	1.522	1.073	1.481	0.916	1.054	1.285
	Left Cheek	0.277	0.440	0.355	0.192	0.098	0.168	0.824	0.730	0.800	0.632	0.717	0.469	0.375	0.445
	Left Tilted	0.206	0.553	0.372	0.241	0.130	0.237	0.819	0.708	0.815	0.578	0.759	0.447	0.336	0.443
FR1 n77_Ant 2	Right Cheek	0.884	0.352	0.402	0.062	0.115	0.210	1.348	1.401	1.496	1.286	1.236	0.946	0.999	1.094
	Right Tilted	0.393	0.645	0.237	0.080	0.218	0.449	0.710	0.848	1.079	0.630	1.038	0.473	0.611	0.842
	Left Cheek	0.583	0.440	0.355	0.192	0.098	0.168	1.130	1.036	1.106	0.938	1.023	0.775	0.681	0.751
	Left Tilted	0.599	0.553	0.372	0.241	0.130	0.237	1.212	1.101	1.208	0.971	1.152	0.840	0.729	0.836

**<WWAN Index 3, WLAN Index 4>**

WWAN Band	Exposure Position	1	2	3	1+2+3 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4+3 1g SAR (W/kg)	5/6GHz WLAN Ant 4+3 1g SAR (W/kg)	
GSM850_Ant 0	Right Cheek	0.251	0.090	0.451	0.792
	Right Tilted	0.163	0.135	0.299	0.597
	Left Cheek	0.403	0.169	0.447	1.019
	Left Tilted	0.251	0.199	0.469	0.919
GSM1900_Ant 2	Right Cheek	0.122	0.090	0.451	0.663
	Right Tilted	0.073	0.135	0.299	0.507
	Left Cheek	0.096	0.169	0.447	0.712
	Left Tilted	0.076	0.199	0.469	0.744
WCDMA II_Ant 2	Right Cheek	0.142	0.090	0.451	0.683
	Right Tilted	0.001	0.135	0.299	0.435
	Left Cheek	0.130	0.169	0.447	0.746
	Left Tilted	0.044	0.199	0.469	0.712
WCDMA IV_Ant 2	Right Cheek	0.280	0.090	0.451	0.821
	Right Tilted	0.001	0.135	0.299	0.435
	Left Cheek	0.137	0.169	0.447	0.753
	Left Tilted	0.001	0.199	0.469	0.669
WCDMA V_Ant 0	Right Cheek	0.229	0.090	0.451	0.770
	Right Tilted	0.064	0.135	0.299	0.498
	Left Cheek	0.321	0.169	0.447	0.937
	Left Tilted	0.122	0.199	0.469	0.790
LTE Band 7_Ant 2	Right Cheek	0.450	0.090	0.451	0.991
	Right Tilted	0.243	0.135	0.299	0.677
	Left Cheek	0.312	0.169	0.447	0.928
	Left Tilted	0.282	0.199	0.469	0.950
LTE Band 12_Ant 0	Right Cheek	0.208	0.090	0.451	0.749
	Right Tilted	0.123	0.135	0.299	0.557
	Left Cheek	0.289	0.169	0.447	0.905
	Left Tilted	0.158	0.199	0.469	0.826
LTE Band 13_Ant 0	Right Cheek	0.240	0.090	0.451	0.781
	Right Tilted	0.152	0.135	0.299	0.586
	Left Cheek	0.328	0.169	0.447	0.944
	Left Tilted	0.220	0.199	0.469	0.888
LTE Band 14_Ant 0	Right Cheek	0.254	0.090	0.451	0.795
	Right Tilted	0.154	0.135	0.299	0.588
	Left Cheek	0.344	0.169	0.447	0.960
	Left Tilted	0.211	0.199	0.469	0.879
LTE Band 25_Ant 2	Right Cheek	0.128	0.090	0.451	0.669
	Right Tilted	0.079	0.135	0.299	0.513
	Left Cheek	0.109	0.169	0.447	0.725
	Left Tilted	0.096	0.199	0.469	0.764
LTE Band 26_Ant 0	Right Cheek	0.214	0.090	0.451	0.755
	Right Tilted	0.141	0.135	0.299	0.575
	Left Cheek	0.309	0.169	0.447	0.925
	Left Tilted	0.158	0.199	0.469	0.826
LTE Band 30_Ant 2	Right Cheek	0.228	0.090	0.451	0.769
	Right Tilted	0.096	0.135	0.299	0.530
	Left Cheek	0.116	0.169	0.447	0.732
	Left Tilted	0.101	0.199	0.469	0.769
LTE Band 41_Ant 2	Right Cheek	0.272	0.090	0.451	0.813
	Right Tilted	0.090	0.135	0.299	0.524
	Left Cheek	0.165	0.169	0.447	0.781

	Left Tilted	0.124	0.199	0.469	0.792
LTE Band 48_Ant 6	Right Cheek	0.280	0.090	0.451	0.821
	Right Tilted	0.233	0.135	0.299	0.667
	Left Cheek	0.450	0.169	0.447	1.066
	Left Tilted	0.161	0.199	0.469	0.829
LTE Band 66_Ant 2	Right Cheek	0.208	0.090	0.451	0.749
	Right Tilted	0.130	0.135	0.299	0.564
	Left Cheek	0.138	0.169	0.447	0.754
	Left Tilted	0.112	0.199	0.469	0.780
LTE Band 71_Ant 0	Right Cheek	0.204	0.090	0.451	0.745
	Right Tilted	0.113	0.135	0.299	0.547
	Left Cheek	0.276	0.169	0.447	0.892
	Left Tilted	0.149	0.199	0.469	0.817
FR1 n5_Ant 0	Right Cheek	0.208	0.090	0.451	0.749
	Right Tilted	0.127	0.135	0.299	0.561
	Left Cheek	0.281	0.169	0.447	0.897
	Left Tilted	0.168	0.199	0.469	0.836
FR1 n7_Ant 2	Right Cheek	0.356	0.090	0.451	0.897
	Right Tilted	0.164	0.135	0.299	0.598
	Left Cheek	0.076	0.169	0.447	0.692
	Left Tilted	0.067	0.199	0.469	0.735
FR1 n12_Ant 0	Right Cheek	0.177	0.090	0.451	0.718
	Right Tilted	0.113	0.135	0.299	0.547
	Left Cheek	0.242	0.169	0.447	0.858
	Left Tilted	0.153	0.199	0.469	0.821
FR1 n25_Ant 2	Right Cheek	0.101	0.090	0.451	0.642
	Right Tilted	0.067	0.135	0.299	0.501
	Left Cheek	0.121	0.169	0.447	0.737
	Left Tilted	0.098	0.199	0.469	0.766
FR1 n30_Ant 2	Right Cheek	0.200	0.090	0.451	0.741
	Right Tilted	0.084	0.135	0.299	0.518
	Left Cheek	0.117	0.169	0.447	0.733
	Left Tilted	0.119	0.199	0.469	0.787
FR1 n41_Ant 5	Right Cheek	0.311	0.090	0.451	0.852
	Right Tilted	0.150	0.135	0.299	0.584
	Left Cheek	0.886	0.169	0.447	1.502
	Left Tilted	0.244	0.199	0.469	0.912
FR1 n66_Ant 2	Right Cheek	0.225	0.090	0.451	0.766
	Right Tilted	0.157	0.135	0.299	0.591
	Left Cheek	0.160	0.169	0.447	0.776
	Left Tilted	0.118	0.199	0.469	0.786
FR1 n71_Ant 0	Right Cheek	0.184	0.090	0.451	0.725
	Right Tilted	0.106	0.135	0.299	0.540
	Left Cheek	0.244	0.169	0.447	0.860
	Left Tilted	0.146	0.199	0.469	0.814
FR1 n77_Ant 6	Right Cheek	0.546	0.090	0.451	1.087
	Right Tilted	0.395	0.135	0.299	0.829
	Left Cheek	0.846	0.169	0.447	1.462
	Left Tilted	0.300	0.199	0.469	0.968



<WWAN Index 3, WLAN Index 4>

WWAN Band	Exposure Position	1	2	3	1+2+3 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4+3 1g SAR (W/kg)	5/6GHz WLAN Ant 4+3 1g SAR (W/kg)	
GSM850_Ant 1	Right Cheek	0.641	0.090	0.451	1.182
	Right Tilted	0.771	0.135	0.299	1.205
	Left Cheek	0.319	0.169	0.447	0.935
	Left Tilted	0.311	0.199	0.469	0.979
GSM1900_Ant 0	Right Cheek	0.184	0.090	0.451	0.725
	Right Tilted	0.161	0.135	0.299	0.595
	Left Cheek	0.460	0.169	0.447	1.076
	Left Tilted	0.172	0.199	0.469	0.840
WCDMA II_Ant 0	Right Cheek	0.138	0.090	0.451	0.679
	Right Tilted	0.051	0.135	0.299	0.485
	Left Cheek	0.470	0.169	0.447	1.086
	Left Tilted	0.152	0.199	0.469	0.820
WCDMA IV_Ant 0	Right Cheek	0.180	0.090	0.451	0.721
	Right Tilted	0.144	0.135	0.299	0.578
	Left Cheek	0.359	0.169	0.447	0.975
	Left Tilted	0.168	0.199	0.469	0.836
WCDMA V_Ant 1	Right Cheek	0.739	0.090	0.451	1.280
	Right Tilted	0.826	0.135	0.299	1.260
	Left Cheek	0.423	0.169	0.447	1.039
	Left Tilted	0.381	0.199	0.469	1.049
LTE Band 7_Ant 0	Right Cheek	0.193	0.090	0.451	0.734
	Right Tilted	0.096	0.135	0.299	0.530
	Left Cheek	0.435	0.169	0.447	1.051
	Left Tilted	0.157	0.199	0.469	0.825
LTE Band 12_Ant 1	Right Cheek	0.757	0.090	0.451	1.298
	Right Tilted	0.787	0.135	0.299	1.221
	Left Cheek	0.366	0.169	0.447	0.982
	Left Tilted	0.336	0.199	0.469	1.004
LTE Band 13_Ant 1	Right Cheek	0.747	0.090	0.451	1.288
	Right Tilted	0.908	0.135	0.299	1.342
	Left Cheek	0.341	0.169	0.447	0.957
	Left Tilted	0.291	0.199	0.469	0.959
LTE Band 14_Ant 1	Right Cheek	0.887	0.090	0.451	1.428
	Right Tilted	0.829	0.135	0.299	1.263
	Left Cheek	0.433	0.169	0.447	1.049
	Left Tilted	0.386	0.199	0.469	1.054
LTE Band 25_Ant 0	Right Cheek	0.256	0.090	0.451	0.797
	Right Tilted	0.157	0.135	0.299	0.591
	Left Cheek	0.469	0.169	0.447	1.085
	Left Tilted	0.185	0.199	0.469	0.853
LTE Band 26_Ant 1	Right Cheek	0.819	0.090	0.451	1.360
	Right Tilted	0.712	0.135	0.299	1.146
	Left Cheek	0.446	0.169	0.447	1.062
	Left Tilted	0.390	0.199	0.469	1.058
LTE Band 30_Ant 0	Right Cheek	0.161	0.090	0.451	0.702
	Right Tilted	0.139	0.135	0.299	0.573
	Left Cheek	0.384	0.169	0.447	1.000
	Left Tilted	0.110	0.199	0.469	0.778
LTE Band 41_Ant 0	Right Cheek	0.073	0.090	0.451	0.614
	Right Tilted	0.064	0.135	0.299	0.498
	Left Cheek	0.242	0.169	0.447	0.858



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	Left Tilted	0.046	0.199	0.469	0.714
LTE Band 48_Ant 2	Right Cheek	0.410	0.090	0.451	0.951
	Right Tilted	0.139	0.135	0.299	0.573
	Left Cheek	0.177	0.169	0.447	0.793
	Left Tilted	0.086	0.199	0.469	0.754
LTE Band 66_Ant 0	Right Cheek	0.241	0.090	0.451	0.782
	Right Tilted	0.201	0.135	0.299	0.635
	Left Cheek	0.467	0.169	0.447	1.083
	Left Tilted	0.191	0.199	0.469	0.859
LTE Band 71_Ant 1	Right Cheek	0.771	0.090	0.451	1.312
	Right Tilted	0.867	0.135	0.299	1.301
	Left Cheek	0.323	0.169	0.447	0.939
	Left Tilted	0.333	0.199	0.469	1.001
FR1 n5_Ant 1	Right Cheek	0.694	0.090	0.451	1.235
	Right Tilted	0.716	0.135	0.299	1.150
	Left Cheek	0.401	0.169	0.447	1.017
	Left Tilted	0.342	0.199	0.469	1.010
FR1 n7_Ant 0	Right Cheek	0.134	0.090	0.451	0.675
	Right Tilted	0.085	0.135	0.299	0.519
	Left Cheek	0.363	0.169	0.447	0.979
	Left Tilted	0.150	0.199	0.469	0.818
FR1 n12_Ant 1	Right Cheek	0.801	0.090	0.451	1.342
	Right Tilted	0.677	0.135	0.299	1.111
	Left Cheek	0.346	0.169	0.447	0.962
	Left Tilted	0.308	0.199	0.469	0.976
FR1 n25_Ant 0	Right Cheek	0.192	0.090	0.451	0.733
	Right Tilted	0.160	0.135	0.299	0.594
	Left Cheek	0.485	0.169	0.447	1.101
	Left Tilted	0.192	0.199	0.469	0.860
FR1 n30_Ant 0	Right Cheek	0.155	0.090	0.451	0.696
	Right Tilted	0.129	0.135	0.299	0.563
	Left Cheek	0.313	0.169	0.447	0.929
	Left Tilted	0.095	0.199	0.469	0.763
FR1 n41_Ant 1	Right Cheek	0.906	0.090	0.451	1.447
	Right Tilted	0.619	0.135	0.299	1.053
	Left Cheek	0.181	0.169	0.447	0.797
	Left Tilted	0.189	0.199	0.469	0.857
FR1 n66_Ant 0	Right Cheek	0.180	0.090	0.451	0.721
	Right Tilted	0.175	0.135	0.299	0.609
	Left Cheek	0.391	0.169	0.447	1.007
	Left Tilted	0.195	0.199	0.469	0.863
FR1 n71_Ant 1	Right Cheek	0.882	0.090	0.451	1.423
	Right Tilted	0.836	0.135	0.299	1.270
	Left Cheek	0.277	0.169	0.447	0.893
	Left Tilted	0.206	0.199	0.469	0.874
FR1 n77_Ant 2	Right Cheek	0.884	0.090	0.451	1.425
	Right Tilted	0.393	0.135	0.299	0.827
	Left Cheek	0.583	0.169	0.447	1.199
	Left Tilted	0.599	0.199	0.469	1.267

14.3 Body-Worn Accessory Exposure Conditions

<WLAN Index 5, BT Index 3>

Exposure Position	2	3	4	5	2+3 Summed 1g SAR (W/kg)	2+4 Summed 1g SAR (W/kg)	2+5 Summed 1g SAR (W/kg)
	5/6GHz WLAN Ant 4+3 1g SAR (W/kg)	Bluetooth Ant 4 1g SAR (W/kg)	Bluetooth Ant 3 1g SAR (W/kg)	Bluetooth Ant 4+3 1g SAR (W/kg)			
Front	0.544	0.128	0.148	0.124	0.672	0.692	0.668
Back	1.025	0.213	0.205	0.190	1.238	1.230	1.215

<WLAN Index 6>

Exposure Position	1	2	1+2 Summed 1g SAR (W/kg)
	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 4+3	
	1g SAR (W/kg)	1g SAR (W/kg)	
Right Cheek	0.486	0.988	1.474
Right Tilted	0.558	0.755	1.313
Left Cheek	0.359	0.983	1.342
Left Tilted	0.481	0.912	1.393

<WWAN Index 6, WLAN Index 8>

WWAN Band	Exposure Position	1	2	3	1+2+3 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 4+3	5/6GHz WLAN Ant 4+3	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850_Ant 0	Front	0.550	0.143	0.236	0.929
	Back	0.429	0.214	0.352	0.995
GSM1900_Ant 2	Front	0.853	0.143	0.236	1.232
	Back	0.908	0.214	0.352	1.474
WCDMA II_Ant 2	Front	0.758	0.143	0.236	1.137
	Back	0.889	0.214	0.352	1.455
WCDMA IV_Ant 2	Front	0.741	0.143	0.236	1.120
	Back	0.877	0.214	0.352	1.443
WCDMA V_Ant 0	Front	0.281	0.143	0.236	0.660
	Back	0.190	0.214	0.352	0.756
LTE Band 7_Ant 2	Front	0.708	0.143	0.236	1.087
	Back	0.908	0.214	0.352	1.474
LTE Band 12_Ant 0	Front	0.294	0.143	0.236	0.673
	Back	0.312	0.214	0.352	0.878
LTE Band 13_Ant 0	Front	0.386	0.143	0.236	0.765
	Back	0.382	0.214	0.352	0.948
LTE Band 14_Ant 0	Front	0.385	0.143	0.236	0.764
	Back	0.367	0.214	0.352	0.933
LTE Band 25_Ant 2	Front	0.858	0.143	0.236	1.237
	Back	0.908	0.214	0.352	1.474
LTE Band 26_Ant 0	Front	0.311	0.143	0.236	0.690
	Back	0.329	0.214	0.352	0.895
LTE Band 30_Ant 2	Front	0.752	0.143	0.236	1.131
	Back	0.863	0.214	0.352	1.429
LTE Band 41_Ant 2	Front	0.799	0.143	0.236	1.178
	Back	0.884	0.214	0.352	1.450
LTE Band 48_Ant 6	Front	0.506	0.143	0.236	0.885
	Back	0.517	0.214	0.352	1.083
LTE Band 66_Ant 2	Front	0.786	0.143	0.236	1.165

	Back	0.811	0.214	0.352	1.377
LTE Band 71_Ant 0	Front	0.341	0.143	0.236	0.720
	Back	0.333	0.214	0.352	0.899
FR1 n5_Ant 0	Front	0.258	0.143	0.236	0.637
	Back	0.230	0.214	0.352	0.796
FR1 n7_Ant 2	Front	0.680	0.143	0.236	1.059
	Back	0.909	0.214	0.352	1.475
FR1 n12_Ant 0	Front	0.316	0.143	0.236	0.695
	Back	0.293	0.214	0.352	0.859
FR1 n25_Ant 2	Front	0.775	0.143	0.236	1.154
	Back	0.910	0.214	0.352	1.476
FR1 n30_Ant 2	Front	0.710	0.143	0.236	1.089
	Back	0.906	0.214	0.352	1.472
FR1 n41_Ant 5	Front	0.685	0.143	0.236	1.064
	Back	0.692	0.214	0.352	1.258
FR1 n66_Ant 2	Front	0.766	0.143	0.236	1.145
	Back	0.821	0.214	0.352	1.387
FR1 n71_Ant 0	Front	0.225	0.143	0.236	0.604
	Back	0.215	0.214	0.352	0.781
FR1 n77_Ant 6	Front	0.719	0.143	0.236	1.098
	Back	0.685	0.214	0.352	1.251



<WWAN Index 6, WLAN Index 8>

WWAN Band	Exposure Position	1	2	3	1+2+3 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4+3 1g SAR (W/kg)	5/6GHz WLAN Ant 4+3 1g SAR (W/kg)	
GSM850_Ant 1	Front	0.545	0.143	0.236	0.924
	Back	0.824	0.214	0.352	1.390
GSM1900_Ant 0	Front	0.701	0.143	0.236	1.080
	Back	0.894	0.214	0.352	1.460
WCDMA II_Ant 0	Front	0.590	0.143	0.236	0.969
	Back	0.907	0.214	0.352	1.473
WCDMA IV_Ant 0	Front	0.504	0.143	0.236	0.883
	Back	0.585	0.214	0.352	1.151
WCDMA V_Ant 1	Front	0.349	0.143	0.236	0.728
	Back	0.493	0.214	0.352	1.059
LTE Band 7_Ant 0	Front	0.426	0.143	0.236	0.805
	Back	0.500	0.214	0.352	1.066
LTE Band 12_Ant 1	Front	0.215	0.143	0.236	0.594
	Back	0.284	0.214	0.352	0.850
LTE Band 13_Ant 1	Front	0.331	0.143	0.236	0.710
	Back	0.444	0.214	0.352	1.010
LTE Band 14_Ant 1	Front	0.331	0.143	0.236	0.710
	Back	0.498	0.214	0.352	1.064
LTE Band 25_Ant 0	Front	0.474	0.143	0.236	0.853
	Back	0.634	0.214	0.352	1.200
LTE Band 26_Ant 1	Front	0.332	0.143	0.236	0.711
	Back	0.497	0.214	0.352	1.063
LTE Band 30_Ant 0	Front	0.483	0.143	0.236	0.862
	Back	0.567	0.214	0.352	1.133
LTE Band 41_Ant 0	Front	0.230	0.143	0.236	0.609
	Back	0.327	0.214	0.352	0.893
LTE Band 48_Ant 2	Front	0.439	0.143	0.236	0.818
	Back	0.448	0.214	0.352	1.014
LTE Band 66_Ant 0	Front	0.367	0.143	0.236	0.746
	Back	0.529	0.214	0.352	1.095
LTE Band 71_Ant 1	Front	0.181	0.143	0.236	0.560
	Back	0.220	0.214	0.352	0.786
FR1 n5_Ant 1	Front	0.266	0.143	0.236	0.645
	Back	0.396	0.214	0.352	0.962
FR1 n7_Ant 0	Front	0.407	0.143	0.236	0.786
	Back	0.266	0.214	0.352	0.832
FR1 n12_Ant 1	Front	0.187	0.143	0.236	0.566
	Back	0.251	0.214	0.352	0.817
FR1 n25_Ant 0	Front	0.545	0.143	0.236	0.924
	Back	0.799	0.214	0.352	1.365
FR1 n30_Ant 0	Front	0.403	0.143	0.236	0.782
	Back	0.456	0.214	0.352	1.022
FR1 n41_Ant 1	Front	0.500	0.143	0.236	0.879
	Back	0.446	0.214	0.352	1.012
FR1 n66_Ant 0	Front	0.429	0.143	0.236	0.808
	Back	0.553	0.214	0.352	1.119
FR1 n71_Ant 1	Front	0.155	0.143	0.236	0.534
	Back	0.193	0.214	0.352	0.759
FR1 n77_Ant 2	Front	0.734	0.143	0.236	1.113
	Back	0.633	0.214	0.352	1.199



<WWAN Index 6, WLAN Index 7>

WWAN Band	Exposure Position	1	2	3	1+3 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4+3 1g SAR (W/kg)	5/6GHz WLAN Ant 4+3 1g SAR (W/kg)		
GSM850_Ant 0	Front	0.550	0.343	0.484	1.034	0.893
	Back	0.429	0.449	0.612	1.041	0.878
GSM1900_Ant 2	Front	0.853	0.343	0.484	1.337	1.196
	Back	0.908	0.449	0.612	1.520	1.357
WCDMA II_Ant 2	Front	0.758	0.343	0.484	1.242	1.101
	Back	0.889	0.449	0.612	1.501	1.338
WCDMA IV_Ant 2	Front	0.741	0.343	0.484	1.225	1.084
	Back	0.877	0.449	0.612	1.489	1.326
WCDMA V_Ant 0	Front	0.281	0.343	0.484	0.765	0.624
	Back	0.190	0.449	0.612	0.802	0.639
LTE Band 7_Ant 2	Front	0.708	0.343	0.484	1.192	1.051
	Back	0.908	0.449	0.612	1.520	1.357
LTE Band 12_Ant 0	Front	0.294	0.343	0.484	0.778	0.637
	Back	0.312	0.449	0.612	0.924	0.761
LTE Band 13_Ant 0	Front	0.386	0.343	0.484	0.870	0.729
	Back	0.382	0.449	0.612	0.994	0.831
LTE Band 14_Ant 0	Front	0.385	0.343	0.484	0.869	0.728
	Back	0.367	0.449	0.612	0.979	0.816
LTE Band 25_Ant 2	Front	0.858	0.343	0.484	1.342	1.201
	Back	0.908	0.449	0.612	1.520	1.357
LTE Band 26_Ant 0	Front	0.311	0.343	0.484	0.795	0.654
	Back	0.329	0.449	0.612	0.941	0.778
LTE Band 30_Ant 2	Front	0.752	0.343	0.484	1.236	1.095
	Back	0.863	0.449	0.612	1.475	1.312
LTE Band 41_Ant 2	Front	0.799	0.343	0.484	1.283	1.142
	Back	0.884	0.449	0.612	1.496	1.333
LTE Band 48_Ant 6	Front	0.506	0.343	0.484	0.990	0.849
	Back	0.517	0.449	0.612	1.129	0.966
LTE Band 66_Ant 2	Front	0.786	0.343	0.484	1.270	1.129
	Back	0.811	0.449	0.612	1.423	1.260
LTE Band 71_Ant 0	Front	0.341	0.343	0.484	0.825	0.684
	Back	0.333	0.449	0.612	0.945	0.782
FR1 n5_Ant 0	Front	0.258	0.343	0.484	0.742	0.601
	Back	0.230	0.449	0.612	0.842	0.679
FR1 n7_Ant 2	Front	0.680	0.343	0.484	1.164	1.023
	Back	0.909	0.449	0.612	1.521	1.358
FR1 n12_Ant 0	Front	0.316	0.343	0.484	0.800	0.659
	Back	0.293	0.449	0.612	0.905	0.742
FR1 n25_Ant 2	Front	0.775	0.343	0.484	1.259	1.118
	Back	0.910	0.449	0.612	1.522	1.359
FR1 n30_Ant 2	Front	0.710	0.343	0.484	1.194	1.053
	Back	0.906	0.449	0.612	1.518	1.355
FR1 n41_Ant 5	Front	0.685	0.343	0.484	1.169	1.028
	Back	0.692	0.449	0.612	1.304	1.141
FR1 n66_Ant 2	Front	0.766	0.343	0.484	1.250	1.109
	Back	0.821	0.449	0.612	1.433	1.270
FR1 n71_Ant 0	Front	0.225	0.343	0.484	0.709	0.568
	Back	0.215	0.449	0.612	0.827	0.664
FR1 n77_Ant 6	Front	0.719	0.343	0.484	1.203	1.062
	Back	0.685	0.449	0.612	1.297	1.134



<WWAN Index 6, WLAN Index 7>

WWAN Band	Exposure Position	1	2	3	1+3 Summed 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 4+3 1g SAR (W/kg)	5/6GHz WLAN Ant 4+3 1g SAR (W/kg)		
GSM850_Ant 1	Front	0.545	0.343	0.484	1.029	0.888
	Back	0.824	0.449	0.612	1.436	1.273
GSM1900_Ant 0	Front	0.701	0.343	0.484	1.185	1.044
	Back	0.894	0.449	0.612	1.506	1.343
WCDMA II_Ant 0	Front	0.590	0.343	0.484	1.074	0.933
	Back	0.907	0.449	0.612	1.519	1.356
WCDMA IV_Ant 0	Front	0.504	0.343	0.484	0.988	0.847
	Back	0.585	0.449	0.612	1.197	1.034
WCDMA V_Ant 1	Front	0.349	0.343	0.484	0.833	0.692
	Back	0.493	0.449	0.612	1.105	0.942
LTE Band 7_Ant 0	Front	0.426	0.343	0.484	0.910	0.769
	Back	0.500	0.449	0.612	1.112	0.949
LTE Band 12_Ant 1	Front	0.215	0.343	0.484	0.699	0.558
	Back	0.284	0.449	0.612	0.896	0.733
LTE Band 13_Ant 1	Front	0.331	0.343	0.484	0.815	0.674
	Back	0.444	0.449	0.612	1.056	0.893
LTE Band 14_Ant 1	Front	0.331	0.343	0.484	0.815	0.674
	Back	0.498	0.449	0.612	1.110	0.947
LTE Band 25_Ant 0	Front	0.474	0.343	0.484	0.958	0.817
	Back	0.634	0.449	0.612	1.246	1.083
LTE Band 26_Ant 1	Front	0.332	0.343	0.484	0.816	0.675
	Back	0.497	0.449	0.612	1.109	0.946
LTE Band 30_Ant 0	Front	0.483	0.343	0.484	0.967	0.826
	Back	0.567	0.449	0.612	1.179	1.016
LTE Band 41_Ant 0	Front	0.230	0.343	0.484	0.714	0.573
	Back	0.327	0.449	0.612	0.939	0.776
LTE Band 48_Ant 2	Front	0.439	0.343	0.484	0.923	0.782
	Back	0.448	0.449	0.612	1.060	0.897
LTE Band 66_Ant 0	Front	0.367	0.343	0.484	0.851	0.710
	Back	0.529	0.449	0.612	1.141	0.978
LTE Band 71_Ant 1	Front	0.181	0.343	0.484	0.665	0.524
	Back	0.220	0.449	0.612	0.832	0.669
FR1 n5_Ant 1	Front	0.266	0.343	0.484	0.750	0.609
	Back	0.396	0.449	0.612	1.008	0.845
FR1 n7_Ant 0	Front	0.407	0.343	0.484	0.891	0.750
	Back	0.266	0.449	0.612	0.878	0.715
FR1 n12_Ant 1	Front	0.187	0.343	0.484	0.671	0.530
	Back	0.251	0.449	0.612	0.863	0.700
FR1 n25_Ant 0	Front	0.545	0.343	0.484	1.029	0.888
	Back	0.799	0.449	0.612	1.411	1.248
FR1 n30_Ant 0	Front	0.403	0.343	0.484	0.887	0.746
	Back	0.456	0.449	0.612	1.068	0.905
FR1 n41_Ant 1	Front	0.500	0.343	0.484	0.984	0.843
	Back	0.446	0.449	0.612	1.058	0.895
FR1 n66_Ant 0	Front	0.429	0.343	0.484	0.913	0.772
	Back	0.553	0.449	0.612	1.165	1.002
FR1 n71_Ant 1	Front	0.155	0.343	0.484	0.639	0.498
	Back	0.193	0.449	0.612	0.805	0.642
FR1 n77_Ant 2	Front	0.734	0.343	0.484	1.218	1.077
	Back	0.633	0.449	0.612	1.245	1.082

**<WWAN Index 6, WLAN Index 9, BT Index 4>**

WWAN Band	Exposure Position	1	3	4	5	6	1+3+4	1+3+5	1+3+6	1+3	1+4	1+5	1+6
		WWAN	5/6GHz WLAN Ant 4+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
GSM850_Ant 0	Front	0.550	0.297	0.105	0.094	0.142	0.952	0.941	0.989	0.847	0.655	0.644	0.692
	Back	0.429	0.444	0.130	0.125	0.147	1.003	0.998	1.020	0.873	0.559	0.554	0.576
GSM1900_Ant 2	Front	0.853	0.297	0.105	0.094	0.142	1.255	1.244	1.292	1.150	0.958	0.947	0.995
	Back	0.908	0.444	0.130	0.125	0.147	1.482	1.477	1.499	1.352	1.038	1.033	1.055
WCDMA II_Ant 2	Front	0.758	0.297	0.105	0.094	0.142	1.160	1.149	1.197	1.055	0.863	0.852	0.900
	Back	0.889	0.444	0.130	0.125	0.147	1.463	1.458	1.480	1.333	1.019	1.014	1.036
WCDMA IV_Ant 2	Front	0.741	0.297	0.105	0.094	0.142	1.143	1.132	1.180	1.038	0.846	0.835	0.883
	Back	0.877	0.444	0.130	0.125	0.147	1.451	1.446	1.468	1.321	1.007	1.002	1.024
WCDMA V_Ant 0	Front	0.281	0.297	0.105	0.094	0.142	0.683	0.672	0.720	0.578	0.386	0.375	0.423
	Back	0.190	0.444	0.130	0.125	0.147	0.764	0.759	0.781	0.634	0.320	0.315	0.337
LTE Band 7_Ant 2	Front	0.708	0.297	0.105	0.094	0.142	1.110	1.099	1.147	1.005	0.813	0.802	0.850
	Back	0.908	0.444	0.130	0.125	0.147	1.482	1.477	1.499	1.352	1.038	1.033	1.055
LTE Band 12_Ant 0	Front	0.294	0.297	0.105	0.094	0.142	0.696	0.685	0.733	0.591	0.399	0.388	0.436
	Back	0.312	0.444	0.130	0.125	0.147	0.886	0.881	0.903	0.756	0.442	0.437	0.459
LTE Band 13_Ant 0	Front	0.386	0.297	0.105	0.094	0.142	0.788	0.777	0.825	0.683	0.491	0.480	0.528
	Back	0.382	0.444	0.130	0.125	0.147	0.956	0.951	0.973	0.826	0.512	0.507	0.529
LTE Band 14_Ant 0	Front	0.385	0.297	0.105	0.094	0.142	0.787	0.776	0.824	0.682	0.490	0.479	0.527
	Back	0.367	0.444	0.130	0.125	0.147	0.941	0.936	0.958	0.811	0.497	0.492	0.514
LTE Band 25_Ant 2	Front	0.858	0.297	0.105	0.094	0.142	1.260	1.249	1.297	1.155	0.963	0.952	1.000
	Back	0.908	0.444	0.130	0.125	0.147	1.482	1.477	1.499	1.352	1.038	1.033	1.055
LTE Band 26_Ant 0	Front	0.311	0.297	0.105	0.094	0.142	0.713	0.702	0.750	0.608	0.416	0.405	0.453
	Back	0.329	0.444	0.130	0.125	0.147	0.903	0.898	0.920	0.773	0.459	0.454	0.476
LTE Band 30_Ant 2	Front	0.752	0.297	0.105	0.094	0.142	1.154	1.143	1.191	1.049	0.857	0.846	0.894
	Back	0.863	0.444	0.130	0.125	0.147	1.437	1.432	1.454	1.307	0.993	0.988	1.010
LTE Band 41_Ant 2	Front	0.799	0.297	0.105	0.094	0.142	1.201	1.190	1.238	1.096	0.904	0.893	0.941
	Back	0.884	0.444	0.130	0.125	0.147	1.458	1.453	1.475	1.328	1.014	1.009	1.031
LTE Band 48_Ant 6	Front	0.506	0.297	0.105	0.094	0.142	0.908	0.897	0.945	0.803	0.611	0.600	0.648
	Back	0.517	0.444	0.130	0.125	0.147	1.091	1.086	1.108	0.961	0.647	0.642	0.664
LTE Band 66_Ant 2	Front	0.786	0.297	0.105	0.094	0.142	1.188	1.177	1.225	1.083	0.891	0.880	0.928
	Back	0.811	0.444	0.130	0.125	0.147	1.385	1.380	1.402	1.255	0.941	0.936	0.958
LTE Band 71_Ant 0	Front	0.341	0.297	0.105	0.094	0.142	0.743	0.732	0.780	0.638	0.446	0.435	0.483
	Back	0.333	0.444	0.130	0.125	0.147	0.907	0.902	0.924	0.777	0.463	0.458	0.480
FR1 n5_Ant 0	Front	0.258	0.297	0.105	0.094	0.142	0.660	0.649	0.697	0.555	0.363	0.352	0.400
	Back	0.230	0.444	0.130	0.125	0.147	0.804	0.799	0.821	0.674	0.360	0.355	0.377
FR1 n7_Ant 2	Front	0.680	0.297	0.105	0.094	0.142	1.082	1.071	1.119	0.977	0.785	0.774	0.822
	Back	0.909	0.444	0.130	0.125	0.147	1.483	1.478	1.500	1.353	1.039	1.034	1.056
FR1 n12_Ant 0	Front	0.316	0.297	0.105	0.094	0.142	0.718	0.707	0.755	0.613	0.421	0.410	0.458
	Back	0.293	0.444	0.130	0.125	0.147	0.867	0.862	0.884	0.737	0.423	0.418	0.440
FR1 n25_Ant 2	Front	0.775	0.297	0.105	0.094	0.142	1.177	1.166	1.214	1.072	0.880	0.869	0.917
	Back	0.910	0.444	0.130	0.125	0.147	1.484	1.479	1.501	1.354	1.040	1.035	1.057
FR1 n30_Ant 2	Front	0.710	0.297	0.105	0.094	0.142	1.112	1.101	1.149	1.007	0.815	0.804	0.852
	Back	0.906	0.444	0.130	0.125	0.147	1.480	1.475	1.497	1.350	1.036	1.031	1.053
FR1 n41_Ant 5	Front	0.685	0.297	0.105	0.094	0.142	1.087	1.076	1.124	0.982	0.790	0.779	0.827
	Back	0.692	0.444	0.130	0.125	0.147	1.266	1.261	1.283	1.136	0.822	0.817	0.839
FR1 n66_Ant 2	Front	0.766	0.297	0.105	0.094	0.142	1.168	1.157	1.205	1.063	0.871	0.860	0.908
	Back	0.821	0.444	0.130	0.125	0.147	1.395	1.390	1.412	1.265	0.951	0.946	0.968
FR1 n71_Ant 0	Front	0.225	0.297	0.105	0.094	0.142	0.627	0.616	0.664	0.522	0.330	0.319	0.367
	Back	0.215	0.444	0.130	0.125	0.147	0.789	0.784	0.806	0.659	0.345	0.340	0.362
FR1 n77_Ant 6	Front	0.719	0.297	0.105	0.094	0.142	1.121	1.110	1.158	1.016	0.824	0.813	0.861
	Back	0.685	0.444	0.130	0.125	0.147	1.259	1.254	1.276	1.129	0.815	0.810	0.832

<WWAN Index 6, WLAN Index 9, BT Index 4>

WWAN Band	Exposure Position	1	3	4	5	6	1+3+4	1+3+5	1+3+6	1+3	1+4	1+5	1+6
		WWAN	5/6GHz WLAN Ant 4+3	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)							
GSM850_Ant 1	Front	0.545	0.297	0.105	0.094	0.142	0.947	0.936	0.984	0.842	0.650	0.639	0.687
	Back	0.824	0.444	0.130	0.125	0.147	1.398	1.393	1.415	1.268	0.954	0.949	0.971
GSM1900_Ant 0	Front	0.701	0.297	0.105	0.094	0.142	1.103	1.092	1.140	0.998	0.806	0.795	0.843
	Back	0.894	0.444	0.130	0.125	0.147	1.468	1.463	1.485	1.338	1.024	1.019	1.041
WCDMA II_Ant 0	Front	0.590	0.297	0.105	0.094	0.142	0.992	0.981	1.029	0.887	0.695	0.684	0.732
	Back	0.907	0.444	0.130	0.125	0.147	1.481	1.476	1.498	1.351	1.037	1.032	1.054
WCDMA IV_Ant 0	Front	0.504	0.297	0.105	0.094	0.142	0.906	0.895	0.943	0.801	0.609	0.598	0.646
	Back	0.585	0.444	0.130	0.125	0.147	1.159	1.154	1.176	1.029	0.715	0.710	0.732
WCDMA V_Ant 1	Front	0.349	0.297	0.105	0.094	0.142	0.751	0.740	0.788	0.646	0.454	0.443	0.491
	Back	0.493	0.444	0.130	0.125	0.147	1.067	1.062	1.084	0.937	0.623	0.618	0.640
LTE Band 7_Ant 0	Front	0.426	0.297	0.105	0.094	0.142	0.828	0.817	0.865	0.723	0.531	0.520	0.568
	Back	0.500	0.444	0.130	0.125	0.147	1.074	1.069	1.091	0.944	0.630	0.625	0.647
LTE Band 12_Ant 1	Front	0.215	0.297	0.105	0.094	0.142	0.617	0.606	0.654	0.512	0.320	0.309	0.357
	Back	0.284	0.444	0.130	0.125	0.147	0.858	0.853	0.875	0.728	0.414	0.409	0.431
LTE Band 13_Ant 1	Front	0.331	0.297	0.105	0.094	0.142	0.733	0.722	0.770	0.628	0.436	0.425	0.473
	Back	0.444	0.444	0.130	0.125	0.147	1.018	1.013	1.035	0.888	0.574	0.569	0.591
LTE Band 14_Ant 1	Front	0.331	0.297	0.105	0.094	0.142	0.733	0.722	0.770	0.628	0.436	0.425	0.473
	Back	0.498	0.444	0.130	0.125	0.147	1.072	1.067	1.089	0.942	0.628	0.623	0.645
LTE Band 25_Ant 0	Front	0.474	0.297	0.105	0.094	0.142	0.876	0.865	0.913	0.771	0.579	0.568	0.616
	Back	0.634	0.444	0.130	0.125	0.147	1.208	1.203	1.225	1.078	0.764	0.759	0.781
LTE Band 26_Ant 1	Front	0.332	0.297	0.105	0.094	0.142	0.734	0.723	0.771	0.629	0.437	0.426	0.474
	Back	0.497	0.444	0.130	0.125	0.147	1.071	1.066	1.088	0.941	0.627	0.622	0.644
LTE Band 30_Ant 0	Front	0.483	0.297	0.105	0.094	0.142	0.885	0.874	0.922	0.780	0.588	0.577	0.625
	Back	0.567	0.444	0.130	0.125	0.147	1.141	1.136	1.158	1.011	0.697	0.692	0.714
LTE Band 41_Ant 0	Front	0.230	0.297	0.105	0.094	0.142	0.632	0.621	0.669	0.527	0.335	0.324	0.372
	Back	0.327	0.444	0.130	0.125	0.147	0.901	0.896	0.918	0.771	0.457	0.452	0.474
LTE Band 48_Ant 2	Front	0.439	0.297	0.105	0.094	0.142	0.841	0.830	0.878	0.736	0.544	0.533	0.581
	Back	0.448	0.444	0.130	0.125	0.147	1.022	1.017	1.039	0.892	0.578	0.573	0.595
LTE Band 66_Ant 0	Front	0.367	0.297	0.105	0.094	0.142	0.769	0.758	0.806	0.664	0.472	0.461	0.509
	Back	0.529	0.444	0.130	0.125	0.147	1.103	1.098	1.120	0.973	0.659	0.654	0.676
LTE Band 71_Ant 1	Front	0.181	0.297	0.105	0.094	0.142	0.583	0.572	0.620	0.478	0.286	0.275	0.323
	Back	0.220	0.444	0.130	0.125	0.147	0.794	0.789	0.811	0.664	0.350	0.345	0.367
FR1 n5_Ant 1	Front	0.266	0.297	0.105	0.094	0.142	0.668	0.657	0.705	0.563	0.371	0.360	0.408
	Back	0.396	0.444	0.130	0.125	0.147	0.970	0.965	0.987	0.840	0.526	0.521	0.543
FR1 n7_Ant 0	Front	0.407	0.297	0.105	0.094	0.142	0.809	0.798	0.846	0.704	0.512	0.501	0.549
	Back	0.266	0.444	0.130	0.125	0.147	0.840	0.835	0.857	0.710	0.396	0.391	0.413
FR1 n12_Ant 1	Front	0.187	0.297	0.105	0.094	0.142	0.589	0.578	0.626	0.484	0.292	0.281	0.329
	Back	0.251	0.444	0.130	0.125	0.147	0.825	0.820	0.842	0.695	0.381	0.376	0.398
FR1 n25_Ant 0	Front	0.545	0.297	0.105	0.094	0.142	0.947	0.936	0.984	0.842	0.650	0.639	0.687
	Back	0.799	0.444	0.130	0.125	0.147	1.373	1.368	1.390	1.243	0.929	0.924	0.946
FR1 n30_Ant 0	Front	0.403	0.297	0.105	0.094	0.142	0.805	0.794	0.842	0.700	0.508	0.497	0.545
	Back	0.456	0.444	0.130	0.125	0.147	1.030	1.025	1.047	0.900	0.586	0.581	0.603
FR1 n41_Ant 1	Front	0.500	0.297	0.105	0.094	0.142	0.902	0.891	0.939	0.797	0.605	0.594	0.642
	Back	0.446	0.444	0.130	0.125	0.147	1.020	1.015	1.037	0.890	0.576	0.571	0.593
FR1 n66_Ant 0	Front	0.429	0.297	0.105	0.094	0.142	0.831	0.820	0.868	0.726	0.534	0.523	0.571
	Back	0.553	0.444	0.130	0.125	0.147	1.127	1.122	1.144	0.997	0.683	0.678	0.700
FR1 n71_Ant 1	Front	0.155	0.297	0.105	0.094	0.142	0.557	0.546	0.594	0.452	0.260	0.249	0.297
	Back	0.193	0.444	0.130	0.125	0.147	0.767	0.762	0.784	0.637	0.323	0.318	0.340
FR1 n77_Ant 2	Front	0.734	0.297	0.105	0.094	0.142	1.136	1.125	1.173	1.031	0.839	0.828	0.876
	Back	0.633	0.444	0.130	0.125	0.147	1.207	1.202	1.224	1.077	0.763	0.758	0.780



<WWAN Index 6, BT Index 3>

WWAN Band	Exposure Position	1	4	5	6	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850_Ant 0	Front	0.550	0.128	0.148	0.124	0.678	0.698	0.674
	Back	0.429	0.213	0.205	0.190	0.642	0.634	0.619
GSM1900_Ant 2	Front	0.853	0.128	0.148	0.124	0.981	1.001	0.977
	Back	0.908	0.213	0.205	0.190	1.121	1.113	1.098
WCDMA II_Ant 2	Front	0.758	0.128	0.148	0.124	0.886	0.906	0.882
	Back	0.889	0.213	0.205	0.190	1.102	1.094	1.079
WCDMA IV_Ant 2	Front	0.741	0.128	0.148	0.124	0.869	0.889	0.865
	Back	0.877	0.213	0.205	0.190	1.090	1.082	1.067
WCDMA V_Ant 0	Front	0.281	0.128	0.148	0.124	0.409	0.429	0.405
	Back	0.190	0.213	0.205	0.190	0.403	0.395	0.380
LTE Band 7_Ant 2	Front	0.708	0.128	0.148	0.124	0.836	0.856	0.832
	Back	0.908	0.213	0.205	0.190	1.121	1.113	1.098
LTE Band 12_Ant 0	Front	0.294	0.128	0.148	0.124	0.422	0.442	0.418
	Back	0.312	0.213	0.205	0.190	0.525	0.517	0.502
LTE Band 13_Ant 0	Front	0.386	0.128	0.148	0.124	0.514	0.534	0.510
	Back	0.382	0.213	0.205	0.190	0.595	0.587	0.572
LTE Band 14_Ant 0	Front	0.385	0.128	0.148	0.124	0.513	0.533	0.509
	Back	0.367	0.213	0.205	0.190	0.580	0.572	0.557
LTE Band 25_Ant 2	Front	0.858	0.128	0.148	0.124	0.986	1.006	0.982
	Back	0.908	0.213	0.205	0.190	1.121	1.113	1.098
LTE Band 26_Ant 0	Front	0.311	0.128	0.148	0.124	0.439	0.459	0.435
	Back	0.329	0.213	0.205	0.190	0.542	0.534	0.519
LTE Band 30_Ant 2	Front	0.752	0.128	0.148	0.124	0.880	0.900	0.876
	Back	0.863	0.213	0.205	0.190	1.076	1.068	1.053
LTE Band 41_Ant 2	Front	0.799	0.128	0.148	0.124	0.927	0.947	0.923
	Back	0.884	0.213	0.205	0.190	1.097	1.089	1.074
LTE Band 48_Ant 6	Front	0.506	0.128	0.148	0.124	0.634	0.654	0.630
	Back	0.517	0.213	0.205	0.190	0.730	0.722	0.707
LTE Band 66_Ant 2	Front	0.786	0.128	0.148	0.124	0.914	0.934	0.910
	Back	0.811	0.213	0.205	0.190	1.024	1.016	1.001
LTE Band 71_Ant 0	Front	0.341	0.128	0.148	0.124	0.469	0.489	0.465
	Back	0.333	0.213	0.205	0.190	0.546	0.538	0.523
FR1 n5_Ant 0	Front	0.258	0.128	0.148	0.124	0.386	0.406	0.382
	Back	0.230	0.213	0.205	0.190	0.443	0.435	0.420
FR1 n7_Ant 2	Front	0.680	0.128	0.148	0.124	0.808	0.828	0.804
	Back	0.909	0.213	0.205	0.190	1.122	1.114	1.099
FR1 n12_Ant 0	Front	0.316	0.128	0.148	0.124	0.444	0.464	0.440
	Back	0.293	0.213	0.205	0.190	0.506	0.498	0.483
FR1 n25_Ant 2	Front	0.775	0.128	0.148	0.124	0.903	0.923	0.899
	Back	0.910	0.213	0.205	0.190	1.123	1.115	1.100
FR1 n30_Ant 2	Front	0.710	0.128	0.148	0.124	0.838	0.858	0.834
	Back	0.906	0.213	0.205	0.190	1.119	1.111	1.096
FR1 n41_Ant 5	Front	0.685	0.128	0.148	0.124	0.813	0.833	0.809
	Back	0.692	0.213	0.205	0.190	0.905	0.897	0.882
FR1 n66_Ant 2	Front	0.766	0.128	0.148	0.124	0.894	0.914	0.890
	Back	0.821	0.213	0.205	0.190	1.034	1.026	1.011
FR1 n71_Ant 0	Front	0.225	0.128	0.148	0.124	0.353	0.373	0.349
	Back	0.215	0.213	0.205	0.190	0.428	0.420	0.405
FR1 n77_Ant 6	Front	0.719	0.128	0.148	0.124	0.847	0.867	0.843
	Back	0.685	0.213	0.205	0.190	0.898	0.890	0.875

**<WWAN Index 6, BT Index 3>**

WWAN Band	Exposure Position	1	4	5	6	1+4 Summed 1g SAR (W/kg)	1+5 Summed 1g SAR (W/kg)	1+6 Summed 1g SAR (W/kg)
		WWAN	Bluetooth Ant 4	Bluetooth Ant 3	Bluetooth Ant 4+3			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850_Ant 1	Front	0.545	0.128	0.148	0.124	0.673	0.693	0.669
	Back	0.824	0.213	0.205	0.190	1.037	1.029	1.014
GSM1900_Ant 0	Front	0.701	0.128	0.148	0.124	0.829	0.849	0.825
	Back	0.894	0.213	0.205	0.190	1.107	1.099	1.084
WCDMA II_Ant 0	Front	0.590	0.128	0.148	0.124	0.718	0.738	0.714
	Back	0.907	0.213	0.205	0.190	1.120	1.112	1.097
WCDMA IV_Ant 0	Front	0.504	0.128	0.148	0.124	0.632	0.652	0.628
	Back	0.585	0.213	0.205	0.190	0.798	0.790	0.775
WCDMA V_Ant 1	Front	0.349	0.128	0.148	0.124	0.477	0.497	0.473
	Back	0.493	0.213	0.205	0.190	0.706	0.698	0.683
LTE Band 7_Ant 0	Front	0.426	0.128	0.148	0.124	0.554	0.574	0.550
	Back	0.500	0.213	0.205	0.190	0.713	0.705	0.690
LTE Band 12_Ant 1	Front	0.215	0.128	0.148	0.124	0.343	0.363	0.339
	Back	0.284	0.213	0.205	0.190	0.497	0.489	0.474
LTE Band 13_Ant 1	Front	0.331	0.128	0.148	0.124	0.459	0.479	0.455
	Back	0.444	0.213	0.205	0.190	0.657	0.649	0.634
LTE Band 14_Ant 1	Front	0.331	0.128	0.148	0.124	0.459	0.479	0.455
	Back	0.498	0.213	0.205	0.190	0.711	0.703	0.688
LTE Band 25_Ant 0	Front	0.474	0.128	0.148	0.124	0.602	0.622	0.598
	Back	0.634	0.213	0.205	0.190	0.847	0.839	0.824
LTE Band 26_Ant 1	Front	0.332	0.128	0.148	0.124	0.460	0.480	0.456
	Back	0.497	0.213	0.205	0.190	0.710	0.702	0.687
LTE Band 30_Ant 0	Front	0.483	0.128	0.148	0.124	0.611	0.631	0.607
	Back	0.567	0.213	0.205	0.190	0.780	0.772	0.757
LTE Band 41_Ant 0	Front	0.230	0.128	0.148	0.124	0.358	0.378	0.354
	Back	0.327	0.213	0.205	0.190	0.540	0.532	0.517
LTE Band 48_Ant 2	Front	0.439	0.128	0.148	0.124	0.567	0.587	0.563
	Back	0.448	0.213	0.205	0.190	0.661	0.653	0.638
LTE Band 66_Ant 0	Front	0.367	0.128	0.148	0.124	0.495	0.515	0.491
	Back	0.529	0.213	0.205	0.190	0.742	0.734	0.719
LTE Band 71_Ant 1	Front	0.181	0.128	0.148	0.124	0.309	0.329	0.305
	Back	0.220	0.213	0.205	0.190	0.433	0.425	0.410
FR1 n5_Ant 1	Front	0.266	0.128	0.148	0.124	0.394	0.414	0.390
	Back	0.396	0.213	0.205	0.190	0.609	0.601	0.586
FR1 n7_Ant 0	Front	0.407	0.128	0.148	0.124	0.535	0.555	0.531
	Back	0.266	0.213	0.205	0.190	0.479	0.471	0.456
FR1 n12_Ant 1	Front	0.187	0.128	0.148	0.124	0.315	0.335	0.311
	Back	0.251	0.213	0.205	0.190	0.464	0.456	0.441
FR1 n25_Ant 0	Front	0.545	0.128	0.148	0.124	0.673	0.693	0.669
	Back	0.799	0.213	0.205	0.190	1.012	1.004	0.989
FR1 n30_Ant 0	Front	0.403	0.128	0.148	0.124	0.531	0.551	0.527
	Back	0.456	0.213	0.205	0.190	0.669	0.661	0.646
FR1 n41_Ant 1	Front	0.500	0.128	0.148	0.124	0.628	0.648	0.624
	Back	0.446	0.213	0.205	0.190	0.659	0.651	0.636
FR1 n66_Ant 0	Front	0.429	0.128	0.148	0.124	0.557	0.577	0.553
	Back	0.553	0.213	0.205	0.190	0.766	0.758	0.743
FR1 n71_Ant 1	Front	0.155	0.128	0.148	0.124	0.283	0.303	0.279
	Back	0.193	0.213	0.205	0.190	0.406	0.398	0.383
FR1 n77_Ant 2	Front	0.734	0.128	0.148	0.124	0.862	0.882	0.858
	Back	0.633	0.213	0.205	0.190	0.846	0.838	0.823

14.4 Product Specific Exposure Conditions

WWAN Band	Exposure Position	1	2	1+2
		WWAN	5GHz WLAN Ant 4+3	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
GSM1900_Ant 0TX1	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 10mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	0.951		0.951
WCDMA II_Ant 0TX1	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 10mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	0.999		0.999

WWAN Band	Exposure Position	1	2	1+2
		WWAN	5GHz WLAN Ant 4+3	Summed
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
WCDMA II_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	1.965		1.965
WCDMA IV_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	2.544		2.544
LTE Band 7_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	2.821		2.821
LTE Band 25_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	2.046		2.046
LTE Band 30_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	2.498		2.498
LTE Band 66_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751

	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	2.478		2.478
FR1 n7_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	2.485		2.485
FR1 n25_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	1.834		1.834
FR1 n30_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	2.416		2.416
FR1 n66_Ant 2TX0	Front at 0mm		2.647	2.647
	Back at 0mm		1.294	1.294
	Left side at 0mm		2.826	2.826
	Right side at 0mm		0.751	0.751
	Top side at 0mm		2.265	2.265
	Bottom side at 0mm	2.810		2.810

Test Engineer : White Huang, Tommy Chen and Kells Chen

15. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

16. References

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- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 941225 D07 v01r02, " SAR Evaluation Procedures for UMPC Mini-Tablet Devices", Oct 2015.
- [13] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [14] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.