



ELEMENT MATERIALS TECHNOLOGY

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RF EXPOSURE REPORT

Applicant Name:

Apple, Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:

06/10/2025 – 07/20/2025

Test Report Issue Date:

08/12/2025

Test Site/Location:

Element, Morgan Hill, CA, USA

Document Serial No.:

1C2503270033-24.BCG-R1

FCC ID:

BCG-A3337

APPLICANT:

APPLE, INC.

DUT Type:

Watch

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

A3337, A3453

Frequency	Power Density	Power Spectral Density	Power Spectral Density
800 MHz	0.001	0.001	0.001
900 MHz	0.001	0.001	0.001
1900 MHz	0.001	0.001	0.001
2100 MHz	0.001	0.001	0.001
2300 MHz	0.001	0.001	0.001
2400 MHz	0.001	0.001	0.001
2500 MHz	0.001	0.001	0.001
2550 MHz	0.001	0.001	0.001
2600 MHz	0.001	0.001	0.001
2650 MHz	0.001	0.001	0.001
2700 MHz	0.001	0.001	0.001
2750 MHz	0.001	0.001	0.001
2800 MHz	0.001	0.001	0.001
2850 MHz	0.001	0.001	0.001
2900 MHz	0.001	0.001	0.001
2950 MHz	0.001	0.001	0.001
3000 MHz	0.001	0.001	0.001
3050 MHz	0.001	0.001	0.001
3100 MHz	0.001	0.001	0.001
3150 MHz	0.001	0.001	0.001
3200 MHz	0.001	0.001	0.001
3250 MHz	0.001	0.001	0.001
3300 MHz	0.001	0.001	0.001
3350 MHz	0.001	0.001	0.001
3400 MHz	0.001	0.001	0.001
3450 MHz	0.001	0.001	0.001
3500 MHz	0.001	0.001	0.001
3550 MHz	0.001	0.001	0.001
3600 MHz	0.001	0.001	0.001
3650 MHz	0.001	0.001	0.001
3700 MHz	0.001	0.001	0.001
3750 MHz	0.001	0.001	0.001
3800 MHz	0.001	0.001	0.001
3850 MHz	0.001	0.001	0.001
3900 MHz	0.001	0.001	0.001
3950 MHz	0.001	0.001	0.001
4000 MHz	0.001	0.001	0.001
4050 MHz	0.001	0.001	0.001
4100 MHz	0.001	0.001	0.001
4150 MHz	0.001	0.001	0.001
4200 MHz	0.001	0.001	0.001
4250 MHz	0.001	0.001	0.001
4300 MHz	0.001	0.001	0.001
4350 MHz	0.001	0.001	0.001
4400 MHz	0.001	0.001	0.001
4450 MHz	0.001	0.001	0.001
4500 MHz	0.001	0.001	0.001
4550 MHz	0.001	0.001	0.001
4600 MHz	0.001	0.001	0.001
4650 MHz	0.001	0.001	0.001
4700 MHz	0.001	0.001	0.001
4750 MHz	0.001	0.001	0.001
4800 MHz	0.001	0.001	0.001
4850 MHz	0.001	0.001	0.001
4900 MHz	0.001	0.001	0.001
4950 MHz	0.001	0.001	0.001
5000 MHz	0.001	0.001	0.001
5050 MHz	0.001	0.001	0.001
5100 MHz	0.001	0.001	0.001
5150 MHz	0.001	0.001	0.001
5200 MHz	0.001	0.001	0.001
5250 MHz	0.001	0.001	0.001
5300 MHz	0.001	0.001	0.001
5350 MHz	0.001	0.001	0.001
5400 MHz	0.001	0.001	0.001
5450 MHz	0.001	0.001	0.001
5500 MHz	0.001	0.001	0.001
5550 MHz	0.001	0.001	0.001
5600 MHz	0.001	0.001	0.001
5650 MHz	0.001	0.001	0.001
5700 MHz	0.001	0.001	0.001
5750 MHz	0.001	0.001	0.001
5800 MHz	0.001	0.001	0.001
5850 MHz	0.001	0.001	0.001
5900 MHz	0.001	0.001	0.001
5950 MHz	0.001	0.001	0.001
6000 MHz	0.001	0.001	0.001
6050 MHz	0.001	0.001	0.001
6100 MHz	0.001	0.001	0.001
6150 MHz	0.001	0.001	0.001
6200 MHz	0.001	0.001	0.001
6250 MHz	0.001	0.001	0.001
6300 MHz	0.001	0.001	0.001
6350 MHz	0.001	0.001	0.001
6400 MHz	0.001	0.001	0.001
6450 MHz	0.001	0.001	0.001
6500 MHz	0.001	0.001	0.001
6550 MHz	0.001	0.001	0.001
6600 MHz	0.001	0.001	0.001
6650 MHz	0.001	0.001	0.001
6700 MHz	0.001	0.001	0.001
6750 MHz	0.001	0.001	0.001
6800 MHz	0.001	0.001	0.001
6850 MHz	0.001	0.001	0.001
6900 MHz	0.001	0.001	0.001
6950 MHz	0.001	0.001	0.001
7000 MHz	0.001	0.001	0.001
7050 MHz	0.001	0.001	0.001
7100 MHz	0.001	0.001	0.001
7150 MHz	0.001	0.001	0.001
7200 MHz	0.001	0.001	0.001
7250 MHz	0.001	0.001	0.001
7300 MHz	0.001	0.001	0.001
7350 MHz	0.001	0.001	0.001
7400 MHz	0.001	0.001	0.001
7450 MHz	0.001	0.001	0.001
7500 MHz	0.001	0.001	0.001
7550 MHz	0.001	0.001	0.001
7600 MHz	0.001	0.001	0.001
7650 MHz	0.001	0.001	0.001
7700 MHz	0.001	0.001	0.001
7750 MHz	0.001	0.001	0.001
7800 MHz	0.001	0.001	0.001
7850 MHz	0.001	0.001	0.001
7900 MHz	0.001	0.001	0.001
7950 MHz	0.001	0.001	0.001
8000 MHz	0.001	0.001	0.001
8050 MHz	0.001	0.001	0.001
8100 MHz	0.001	0.001	0.001
8150 MHz	0.001	0.001	0.001
8200 MHz	0.001	0.001	0.001
8250 MHz	0.001	0.001	0.001
8300 MHz	0.001	0.001	0.001
8350 MHz	0.001	0.001	0.001
8400 MHz	0.001	0.001	0.001
8450 MHz	0.001	0.001	0.001
8500 MHz	0.001	0.001	0.001
8550 MHz	0.001	0.001	0.001
8600 MHz	0.001	0.001	0.001
8650 MHz	0.001	0.001	0.001
8700 MHz	0.001	0.001	0.001
8750 MHz	0.001	0.001	0.001
8800 MHz	0.001	0.001	0.001
8850 MHz	0.001	0.001	0.001
8900 MHz	0.001	0.001	0.001
8950 MHz	0.001	0.001	0.001
9000 MHz	0.001	0.001	0.001
9050 MHz	0.001	0.001	0.001
9100 MHz	0.001	0.001	0.001
9150 MHz	0.001	0.001	0.001
9200 MHz	0.001	0.001	0.001
9250 MHz	0.001	0.001	0.001
9300 MHz	0.001	0.001	0.001
9350 MHz	0.001	0.001	0.001
9400 MHz	0.001	0.001	0.001
9450 MHz	0.001	0.001	0.001
9500 MHz	0.001	0.001	0.001
9550 MHz	0.001	0.001	0.001
9600 MHz	0.001	0.001	0.001
9650 MHz	0.001	0.001	0.001
9700 MHz	0.001	0.001	0.001
9750 MHz	0.001	0.001	0.001
9800 MHz	0.001	0.001	0.001
9850 MHz	0.001	0.001	0.001
9900 MHz	0.001	0.001	0.001
9950 MHz	0.001	0.001	0.001
10000 MHz	0.001	0.001	0.001

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This watch has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

RJ Ortanez
Executive Vice President



The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Voice/Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Voice/Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Voice/Data	1852.5 - 1907.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4 ab-NB	Data	5728.75 - 5846.25 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

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1.2 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for Bluetooth operations. When Bluetooth is operating simultaneously with the Cellular antenna, the output power is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

This device additionally uses an independent duty cycle reduction mechanism for WLAN operations while licensed band operations are active. When the cellular antenna is transmitting, the duty cycle of WLAN operation reduces to a maximum of 30%. A detailed description of the mechanism is included in the operational description. The reduction mechanism was confirmed during the SAR evaluation.

1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

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1.3.1

Maximum Output Power – LTE Mode

Mode / Band		Modulated Average Output Power (in dBm)
LTE FDD Band 71	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 12	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 17	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 13	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 14	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 26	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 5	Max allowed power	25.70
	Nominal	24.50
LTE FDD Band 66	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 4	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 25	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 2	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 7	Max allowed power	25.20
	Nominal	24.00
LTE TDD Band 41	Max allowed power	25.20
	Nominal	24.00

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1.3.2

Maximum Output Power – NR Mode

Mode / Band		Modulated Average Output Power (in dBm)
NR FDD Band n71	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n12	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n14	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n26	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n5	Max allowed power	25.70
	Nominal	24.50
NR FDD Band n66	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n25	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n2	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n7	Max allowed power	25.20
	Nominal	24.00
NR TDD Band n41	Max allowed power	25.20
	Nominal	24.00

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1.3.3

Maximum Output Power – WiFi Mode

Mode/ Band			IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm)	20 MHz Bandwidth	1	19.00	18.00	17.00	16.00	17.00	16.00
		2	19.00	18.00	18.00	17.00	18.00	17.00
		3	19.00	18.00	18.50	17.50	18.50	17.50
		4	19.00	18.00	18.50	17.50	18.50	17.50
		5	19.00	18.00	18.50	17.50	18.50	17.50
		6	19.00	18.00	18.50	17.50	18.50	17.50
		7	19.00	18.00	18.50	17.50	18.50	17.50
		8	19.00	18.00	18.50	17.50	18.50	17.50
		9	19.00	18.00	18.50	17.50	18.50	17.50
		10	19.00	18.00	18.00	17.00	18.00	17.00
		11	19.00	18.00	14.00	13.00	14.00	13.00
		12	18.00	17.00	13.00	12.00	13.00	12.00
		13	15.00	14.00	2.50	1.50	2.50	1.50

Mode/ Band			IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)	
		Channel	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm)	20 MHz Bandwidth	36	17.00	16.00	17.00	16.00
		40	17.00	16.00	17.00	16.00
		44	17.00	16.00	17.00	16.00
		48	17.00	16.00	17.00	16.00
		52	17.00	16.00	17.00	16.00
		56	17.00	16.00	17.00	16.00
		60	17.00	16.00	17.00	16.00
		64	17.00	16.00	17.00	16.00
		100	17.00	16.00	17.00	16.00
		104	17.00	16.00	17.00	16.00
		108	17.00	16.00	17.00	16.00
		112	17.00	16.00	17.00	16.00
		116	17.00	16.00	17.00	16.00
		120	17.00	16.00	17.00	16.00
		124	17.00	16.00	17.00	16.00
		128	17.00	16.00	17.00	16.00
		132	17.00	16.00	17.00	16.00
		136	16.00	15.00	16.00	15.00
		140	13.50	12.50	13.50	12.50
		144	17.00	16.00	17.00	16.00
		149	17.00	16.00	17.00	16.00
		153	17.00	16.00	17.00	16.00
		157	17.00	16.00	17.00	16.00
		161	17.00	16.00	17.00	16.00
		165	17.00	16.00	17.00	16.00

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1.3.4 Maximum Output Power – Bluetooth Mode

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	17.50
	Nominal	16.50
Bluetooth EDR	Maximum	13.00
	Nominal	12.00
Bluetooth HDR	Maximum	13.00
	Nominal	12.00

The Reduced Table below is applicable in the following scenarios:

- Simultaneous conditions with Cellular Bands

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	13.00
	Nominal	12.00
Bluetooth EDR	Maximum	13.00
	Nominal	12.00
Bluetooth HDR	Maximum	13.00
	Nominal	12.00

1.3.5 Maximum Output Power – 802.15.4 ab-NB

Mode / Band		Modulated Average - Single Tx Chain (dBm)
802.15.4 ab-NB	Maximum	16.00
	Nominal	14.00

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1.4 DUT Antenna Locations

A diagram showing the location of the device antennas can be found in the DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

1.5 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in the DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 4.3.2 procedures.

Table 1-1
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Extremity
1	Cellular + 2.4 GHz WI-FI + NFC*	Yes*	Yes
2	Cellular+ 5 GHz WI-FI + NFC*	Yes*	Yes
3	Cellular + 2.4 GHz Bluetooth + NFC*	Yes*	Yes
4	Cellular+ 802.15.4 ab-NB + NFC*	Yes*	Yes
5	Cellular + UWB + NFC*	Yes*	Yes
6	Cellular + 2.4 GHz WI-FI + 802.15.4 ab-NB + NFC*	Yes*	Yes
7	Cellular + 2.4 GHz WI-FI + UWB + NFC*	Yes*	Yes
8	Cellular + 2.4 GHz Bluetooth + 5 GHz WI-FI + NFC*	Yes*	Yes
9	Cellular + 2.4 GHz Bluetooth + 802.15.4 ab-NB + NFC*	Yes*	Yes
10	Cellular + 2.4 GHz Bluetooth + UWB + NFC*	Yes*	Yes
11	2.4 GHz WI-FI + 802.15.4 ab-NB + NFC*	Yes*	Yes
12	2.4 GHz WI-FI + UWB + NFC*	Yes*	Yes
13	2.4 GHz Bluetooth + 5 GHz WI-FI + NFC*	Yes*	Yes
14	2.4 GHz Bluetooth + 802.15.4 ab-NB + NFC*	Yes*	Yes
15	2.4 GHz Bluetooth + UWB + NFC*	Yes*	Yes

1. 2.4 GHz WLAN and 2.4 GHz Bluetooth cannot transmit simultaneously.
2. 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
3. 802.15.4 ab-NB, 5 GHz WLAN and UWB cannot transmit simultaneously.
4. Licensed modes cannot transmit simultaneously.
5. This device supports VOLTE.
6. This device supports VOWIFI.
7. *NFC was evaluated for extremity only based on expected usage conditions.

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1.7 Miscellaneous SAR Test Considerations

In some cases, SAR evaluations at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

(A) WIFI/BT/UWB

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01v02r02.

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Per October 2022 TCB Workshop, the 1 mW test exemption is allowed for 6-8.5 GHz UWB in multi-transmitter end products. No further evaluation for UWB is required.

(B) Licensed Transmitter(s)

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r05.

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device is limited to 27 RB on the uplink for 16QAM modulation for LTE. Additional measurements were evaluated to support SAR test exclusion for 16 QAM as described in Section 7.2.4.

1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance, Wrist-worn Device Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- IEEE 1528-2013
- October 2018, April 2019, October 2020, October 2022 TCBC Workshop Notes
- SPEAG DASY6 System Handbook

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1.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 10.

1.10 Device Housing Types and Wrist Band Types

This device has two housing types that were evaluated independently for SAR: Aluminum and Titanium. The device can also be used with different wristband accessories. The non-metallic wrist accessory, sport band, was evaluated for all exposure conditions. The available metallic wrist accessories, metal links band and metal loop band, were additionally evaluated.

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Watch				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz					
LTE Band 17: 5 MHz, 10 MHz					
LTE Band 13: 5 MHz, 10 MHz					
LTE Band 14: 5 MHz, 10 MHz					
LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz					
LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz					
LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz					
Channel Numbers and Frequencies (MHz)		Low	Low-Mid	Mid	Mid-High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)		695.5 (133447)
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)		693 (133422)
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)		690.5 (133397)
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)		688 (133372)
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)		715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)		714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)		713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)		711 (23130)
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)		713.5 (23825)
LTE Band 17: 10 MHz	709 (23780)		710 (23790)		711 (23800)
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz	N/A		782 (23230)		N/A
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)		795.5 (23355)
LTE Band 14: 10 MHz	N/A		793 (23330)		N/A
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)		2567.5 (21425)
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)		2565 (21400)
LTE Band 7: 15 MHz	2507.5 (20825)		2535 (21100)		2562.5 (21375)
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)		2560 (21350)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	1				
Modulations Supported in UL	QPSK, 16QAM				
LTE MPR Permanently implemented per	YES				
A-MPR (Additional MPR) disabled for SAR	YES				
LTE Additional Information	This device does not support full CA features on 3GPP Release 17. All uplink communications are identical to the Release 17 Specifications. The following LTE Release 17 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eCIC, WIFI Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information					
Form Factor	Watch				
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz)				
	NR Band n12 (701.5 - 713.5 MHz)				
	NR Band n14 (790.5 - 795.5 MHz)				
	NR Band n26 (Cell) (816.5 - 846.5 MHz)				
	NR Band n5 (Cell) (826.5 - 846.5 MHz)				
	NR Band n66 (AWS) (1712.5 - 1777.5 MHz)				
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)				
	NR Band n2 (PCS) (1852.5 - 1907.5 MHz)				
	NR Band n7 (2502.5 - 2567.5 MHz)				
	NR Band n41 (2501.01 - 2685 MHz)				
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n12: 5 MHz, 10 MHz, 15 MHz				
	NR Band n14: 5 MHz, 10 MHz				
	NR Band n26 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n41: 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
NR Band n71: 5 MHz	665.5 (133100)		680.5 (136100)		695.5 (139100)
NR Band n71: 10 MHz	668 (133600)		680.5 (136100)		693 (138600)
NR Band n71: 15 MHz	670.5 (134100)		680.5 (136100)		690.5 (138100)
NR Band n71: 20 MHz	673 (134600)		680.5 (136100)		688 (137600)
NR Band n12: 5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		708.5 (141700)
NR Band n14: 5 MHz	790.5 (158100)		793 (158600)		795.5 (159100)
NR Band n14: 10 MHz	N/A		793 (158600)		N/A
NR Band n26 (Cell): 5 MHz	816.5 (163300)		831.5 (166300)		846.5 (169300)
NR Band n26 (Cell): 10 MHz	819 (163800)		831.5 (166300)		844 (168800)
NR Band n26 (Cell): 15 MHz	821.5 (164300)		831.5 (166300)		841.5 (168300)
NR Band n26 (Cell): 20 MHz	824 (164800)		831.5 (166300)		839 (167800)
NR Band n5 (Cell): 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)
NR Band n5 (Cell): 10 MHz	829 (165800)		836.5 (167300)		844 (168800)
NR Band n5 (Cell): 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)
NR Band n5 (Cell): 20 MHz	834 (166800)		836.5 (167300)		839 (167800)
NR Band n66 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)
NR Band n66 (AWS): 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)
NR Band n66 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)
NR Band n66 (AWS): 20 MHz	1720 (344000)		1745 (349000)		1770 (354000)
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)
NR Band n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)
NR Band n2 (PCS): 20 MHz	1860 (372000)		1880 (376000)		1900 (380000)
NR Band n7: 5 MHz	2502.5 (500500)		2535 (507000)		2567.5 (513500)
NR Band n7: 10 MHz	2505 (501000)		2535 (507000)		2565 (513000)
NR Band n7: 15 MHz	2507.5 (501500)		2535 (507000)		2562.5 (512500)
NR Band n7: 20 MHz	2510 (502000)		2535 (507000)		2560 (512000)
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)	2639.01 (527802)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)	2637.75 (527550)	2682.48 (536496)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527298)	2679.99 (535998)
SCS for NR Band n71/n12/n14/n26/n5/n66/n25/n2/n7	15 kHz				
SCS for NR Band n41	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM CP-OFDM: QPSK, 16QAM, 64QAM				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				

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3 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996, and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface, and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1).
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1). On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

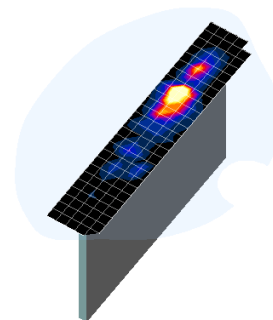


Figure 4-1
Sample SAR Area Scan

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoomTV}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. Additionally, a manufacturer provided low-loss foam was used to position the device for head SAR evaluations.

5.2 Positioning for Head

Devices that are designed to be worn on the wrist may operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. When next-to-mouth SAR evaluation is required, the device is positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. The device is evaluated with wrist bands strapped together to represent normal use conditions.

5.3 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet, and ankles may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. When extremity SAR evaluation is required, the device is evaluated with the back of the device touching the flat phantom, which is filled with head tissue-equivalent medium. The device was evaluated with Sport wristband unstrapped and touching the phantom. For Metal Loop and Metal Links wristbands, the device was evaluated with wristbands strapped and the distance between wristbands and the phantom was minimized to represent the spacing created by actual use conditions.

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6 RF EXPOSURE LIMITS

6.1 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.

6.2 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. This 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.

6.3 RF Exposure Limits for Frequencies Below 6 GHz

Table 6-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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6.4 RF Exposure Limits for Frequencies Above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

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

Table 6-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm² is 10 W/m²

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7 FCC MEASUREMENT PROCEDURES

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensures a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

7.2.1 Spectrum Plots for RB Configurations

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

7.2.2 MPR

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

7.2.3 A-MPR

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

7.2.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with the highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.

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- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.
- e. This device can only operate with 16QAM on the uplink with less than or equal to 27 RB. For 16QAM configurations with 10 MHz, 15 MHz and 20 MHz bandwidths, LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") with offsets to upper edge, middle, and lower edge of the channel are additionally measured for both QPSK and 16QAM modulations to support comparison and SAR test exclusion per Section 5.2.4 and 5.3.

7.2.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

7.3 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset-based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

7.3.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to a 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.3.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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7.3.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

7.3.4 2.4 GHz SAR Test Requirements

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

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

2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.3.5 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, and 802.11n or 802.11g and 802.11n with the same channel bandwidth, modulation, and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n or 802.11g then 802.11n, is used for SAR measurement. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

7.3.6 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR

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result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.3.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.3.7 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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8 RF CONDUCTED POWERS

8.1 LTE Conducted Powers

Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in the LTE Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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8.1.1

LTE Band 71

Table 8-1
LTE Band 71 Conducted Power – 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.82	0	0
	1	50	24.86		0
	1	99	24.80		0
	50	0	23.99	0-1	1
	50	25	23.97		1
	50	50	23.95		1
	100	0	23.98		1
	15	0	24.87	0-1	0
	15	42	24.90		0
	15	85	24.84		0
	27	0	23.96	0-2	1
	27	37	23.93		1
	27	73	23.86		1
16QAM	1	0	24.34	0-2	1
	1	50	24.37		1
	1	99	24.31		1
	15	0	23.94	0-3	1
	15	42	23.97		1
	15	85	23.89		1
	27	0	22.94	0-5	2
	27	37	22.93		2
	27	73	22.87		2

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8.1.2

LTE Band 12

Table 8-2
LTE Band 12 Conducted Power – 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.90	0	0
	1	25	24.80		0
	1	49	24.83		0
	25	0	23.89	0-1	1
	25	12	23.88		1
	25	25	23.87		1
	50	0	23.86		1
	15	0	23.91	0-1	1
	15	17	23.85		1
	15	35	23.84		1
	27	0	23.88	0-2	1
	27	12	23.83		1
	27	23	23.84		1
16QAM	1	0	23.46	0-2	1
	1	25	23.41		1
	1	49	23.46		1
	25	0	22.63	0-3	2
	25	12	22.61		2
	25	25	22.61		2
	15	0	22.63	0-5	2
	15	17	22.58		2
	15	35	22.61		2
	27	0	22.52		2
	27	12	22.49		2
	27	23	22.50		2

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8.1.3

LTE Band 13

Table 8-3
LTE Band 13 Conducted Power – 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.88	0	0
	1	25	24.75		0
	1	49	24.72		0
	25	0	23.77	0-1	1
	25	12	23.78		1
	25	25	23.74		1
	50	0	23.76		1
	15	0	23.74	0-1	1
	15	17	23.73		1
	15	35	23.72		1
	27	0	23.71	0-2	1
	27	12	23.74		1
	27	23	23.73		1
16QAM	1	0	23.20	0-2	1
	1	25	23.17		1
	1	49	23.19		1
	25	0	22.54	0-3	2
	25	12	22.52		2
	25	25	22.50		2
	15	0	22.50	0-5	2
	15	17	22.51		2
	15	35	22.53		2
	27	0	22.41		2
	27	12	22.39		2
	27	23	22.42		2

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8.1.4

LTE Band 14

Table 8-4
LTE Band 14 Conducted Power – 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.88	0	0
	1	25	24.89		0
	1	49	24.88		0
	25	0	23.87	0-1	1
	25	12	23.85		1
	25	25	23.86		1
	50	0	23.84		1
	15	0	23.88	0-1	1
	15	17	23.86		1
	15	35	23.85		1
	27	0	23.84	0-2	1
	27	12	23.81		1
	27	23	23.82		1
16QAM	1	0	23.46	0-2	1
	1	25	23.44		1
	1	49	23.45		1
	25	0	22.65	0-3	2
	25	12	22.63		2
	25	25	22.64		2
	15	0	22.62	0-5	2
	15	17	22.60		2
	15	35	22.59		2
	27	0	22.53		2
	27	12	22.51		2
	27	23	22.50		2

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8.1.5

LTE Band 26

Table 8-5
LTE Band 26 Conducted Power – 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.61	24.54	24.73	0	0
	1	25	24.50	24.44	24.78		0
	1	49	24.62	24.49	24.60		0
	25	0	23.61	23.60	23.68	0-1	1
	25	12	23.59	23.57	23.63		1
	25	25	23.65	23.55	23.55		1
	50	0	23.61	23.56	23.62	0-1	1
	15	0	23.67	23.63	23.64		1
	15	17	23.58	23.52	23.60		1
	15	35	23.75	23.53	23.52	0-2	1
	27	0	23.58	23.57	23.65		1
	27	12	23.55	23.52	23.62		1
27	23	23.61	23.51	23.51			
16QAM	1	0	23.27	23.40	23.80	0-2	1
	1	25	23.28	23.39	23.78		1
	1	49	23.27	23.39	23.79		1
	25	0	22.62	22.63	22.59	0-3	2
	25	12	22.60	22.60	22.60		2
	25	25	22.61	22.61	22.59		2
	15	0	22.48	22.56	22.50	0-5	2
	15	17	22.50	22.54	22.50		2
	15	35	22.49	22.55	22.52		2
	27	0	22.47	22.50	22.53		2
	27	12	22.46	22.51	22.51		2
	27	23	22.46	22.50	22.54		2

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8.1.6

LTE Band 5

Table 8-6
LTE Band 5 Conducted Power – 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.53	0	0
	1	25	24.56		0
	1	49	24.57		0
	25	0	23.75	0-1	1
	25	12	23.74		1
	25	25	23.76		1
	50	0	23.72		1
	15	0	23.76	0-1	1
	15	17	23.71		1
	15	35	23.74		1
	27	0	23.73	0-2	1
	27	12	23.70		1
	27	23	23.70		1
16QAM	1	0	23.44	0-2	1
	1	25	23.40		1
	1	49	23.41		1
	25	0	22.80	0-3	2
	25	12	22.78		2
	25	25	22.75		2
	15	0	22.70	0-5	2
	15	17	22.69		2
	15	35	22.71		2
	27	0	22.67		2
	27	12	22.65		2
	27	23	22.68		2

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8.1.7

LTE Band 66

Table 8-7
LTE Band 66 Conducted Power – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.30	24.11	24.04	0	0
	1	50	24.41	24.14	24.00		0
	1	99	24.30	23.97	23.91		0
	50	0	23.31	23.28	23.06	0-1	1
	50	25	23.30	23.24	23.05		1
	50	50	23.29	23.18	22.96		1
	100	0	23.30	23.23	23.01	1	
	15	0	24.26	24.25	24.02	0-1	0
	15	42	24.32	24.25	23.99		0
	15	85	24.29	24.12	23.93		0
	27	0	23.27	23.21	23.03	0-2	1
	27	37	23.28	23.20	22.94		1
27	73	23.23	23.12	22.90	1		
16QAM	1	0	23.22	23.27	23.34	0-2	1
	1	50	23.24	23.30	23.35		1
	1	99	23.29	23.24	23.19		1
	15	0	22.89	23.21	22.83	0-3	1
	15	42	22.93	23.23	22.71		1
	15	85	22.99	23.16	22.70		1
	27	0	21.91	22.15	21.89	0-5	2
	27	37	21.95	22.15	21.80		2
	27	73	21.94	22.04	21.75		2

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8.1.8

LTE Band 25

Table 8-8
LTE Band 25 Conducted Power – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.18	24.23	24.03	0	0
	1	50	24.30	24.27	24.14		0
	1	99	24.25	24.19	24.06		0
	50	0	23.24	23.19	23.03	0-1	1
	50	25	23.25	23.20	23.02		1
	50	50	23.21	23.16	23.00		1
	100	0	23.22	23.18	23.04	0-1	1
	15	0	24.17	24.18	24.01		0
	15	42	24.25	24.21	24.10		0
	15	85	24.23	24.15	24.08	0-2	0
	27	0	23.16	23.16	22.99		1
	27	37	23.19	23.17	23.03		1
27	73	23.17	23.08	22.96	1		
16QAM	1	0	22.97	23.40	22.84	0-2	1
	1	50	23.07	23.44	22.98		1
	1	99	23.04	23.41	22.90		1
	15	0	22.85	22.85	22.72	0-3	1
	15	42	22.94	22.89	22.83		1
	15	85	22.94	22.84	22.79		1
	27	0	21.54	21.69	21.56	0-5	2
	27	37	21.63	21.70	21.64		2
	27	73	21.62	21.66	21.58		2

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8.1.9

LTE Band 7

Table 8-9
LTE Band 7 Conducted Power – 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.93	23.90	23.84	0	0
	1	50	24.08	24.00	24.08		0
	1	99	24.11	23.91	23.94		0
	50	0	23.14	23.27	23.26	0-1	1
	50	25	23.30	23.26	23.28		1
	50	50	23.20	23.25	23.25		1
	100	0	23.18	23.25	23.24	0-1	1
	15	0	24.09	23.89	23.86		0
	15	42	24.24	23.98	24.02		0
	15	85	24.19	23.91	23.95	0-2	0
	27	0	23.10	23.18	23.21		1
	27	37	23.18	23.26	23.28		1
27	73	23.16	23.21	23.18	1		
16QAM	1	0	22.70	22.78	23.02	0-2	1
	1	50	22.74	22.73	22.91		1
	1	99	22.85	22.67	22.90		1
	15	0	22.99	23.03	22.98	0-3	1
	15	42	22.97	23.10	23.02		1
	15	85	23.04	23.08	22.95		1
	27	0	21.96	22.04	22.00	0-5	2
	27	37	21.91	22.05	21.98		2
	27	73	21.95	22.03	21.96		2

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8.1.10

LTE Band 41

Table 8-10
LTE Band 41 Conducted Power – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]
Conducted Power [dBm]								
QPSK	1	0	23.84	23.97	23.98	23.76	24.02	0
	1	50	24.08	24.10	24.11	23.79	24.08	0
	1	99	23.96	24.13	24.09	23.88	24.05	0
	50	0	22.99	23.04	23.04	22.87	23.11	1
	50	25	23.03	23.17	23.13	22.91	23.15	1
	50	50	23.01	23.10	23.12	22.86	23.10	1
	100	0	23.01	23.15	23.11	22.87	23.14	1
	15	0	23.94	24.03	24.05	23.80	24.12	0
	15	42	24.09	24.15	24.16	23.88	24.20	0
	15	85	24.03	24.13	24.13	23.92	24.11	0
	27	0	22.92	23.02	23.02	22.75	23.07	1
	27	37	23.00	23.09	23.09	22.84	23.14	1
16QAM	27	73	22.97	23.11	23.11	22.85	23.08	1
	1	0	22.67	22.93	22.82	22.79	22.88	1
	1	50	22.74	23.04	22.81	22.85	22.93	1
	1	99	22.61	23.02	22.79	22.87	22.85	1
	15	0	22.72	22.64	22.63	22.64	22.73	1
	15	42	22.82	22.66	22.65	22.60	22.76	1
	15	85	22.73	22.69	22.64	22.67	22.75	1
	27	0	21.70	21.67	21.61	21.63	21.67	2
	27	37	21.71	21.68	21.65	21.62	21.71	2
	27	73	21.65	21.66	21.63	21.64	21.69	2



Figure 8-1
Power Measurement Setup

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8.2 NR Conducted Powers

Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in the LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

8.2.0 NR Band n71

Table 8-11
NR Band n71 Conducted Power – 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.25	0	0.0
	1	53	24.03		0.0
	1	104	24.02		0.0
	50	0	23.71	0-1	1.0
	50	28	24.11	0	0.0
	50	56	23.60	0-1	1.0
	100	0	23.61		1.0
DFT-s-OFDM 16QAM	1	1	23.58	0-1	1.0
CP-OFDM QPSK	1	1	23.22	0-1.5	1.5

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8.2.1

NR Band n12

Table 8-12
NR Band n12 Conducted Power – 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	25.01	0	0.0
	1	40	24.94		0.0
	1	77	24.91		0.0
	36	0	23.51	0-1	1.0
	36	22	24.94	0	0.0
	36	43	23.41	0-1	1.0
	75	0	23.27		1.0
DFT-s-OFDM 16QAM	1	1	23.25	0-1	1.0
CP-OFDM QPSK	1	1	22.96	0-1.5	1.5

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8.2.2

NR Band n14

Table 8-13
NR Band n14 Conducted Power – 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.87	0	0.0
	1	26	24.81		0.0
	1	50	24.85		0.0
	25	0	23.46	0-1	1.0
	25	14	24.90	0	0.0
	25	27	23.48	0-1	1.0
	50	0	23.38		1.0
DFT-s-OFDM 16QAM	1	1	23.36	0-1	1.0
CP-OFDM QPSK	1	1	23.02	0-1.5	1.5

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8.2.3

NR Band n26

Table 8-14
NR Band n26 Conducted Power – 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.10	0	0.0
	1	53	24.15		0.0
	1	104	24.14		0.0
	50	0	23.61	0-1	1.0
	50	28	24.05	0	0.0
	50	56	23.55	0-1	1.0
	100	0	23.53		1.0
DFT-s-OFDM 16QAM	1	1	23.32	0-1	1.0
CP-OFDM QPSK	1	1	23.25	0-1.5	1.5

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8.2.4

NR Band n5

Table 8-15
NR Band n5 Conducted Power – 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.72	0	0.0
	1	53	24.57		0.0
	1	104	24.53		0.0
	50	0	23.80	0-1	1.0
	50	28	24.84	0	0.0
	50	56	23.74	0-1	1.0
	100	0	23.70		1.0
DFT-s-OFDM 16QAM	1	1	23.56	0-1	1.0
CP-OFDM QPSK	1	1	23.40	0-1.5	1.5

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8.2.5

NR Band n66

Table 8-16
NR Band n66 Conducted Power – 20 MHz Bandwidth

NR Band n66 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	344000 (1720 MHz)	349000 (1745 MHz)	354000 (1770 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	24.03	24.51	24.42	0	0.0
	1	53	24.50	24.41	24.17		0.0
	1	104	24.47	24.30	24.21		0.0
	50	0	23.47	23.41	23.27	0-1	1.0
	50	28	24.41	24.43	24.23	0	0.0
	50	56	23.45	23.41	23.17	0-1	1.0
	100	0	23.40	23.37	23.23		1.0
DFT-s-OFDM 16QAM	1	1	23.14	23.09	23.11	0-1	1.0
CP-OFDM QPSK	1	1	23.01	23.04	22.87	0-1.5	1.5

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8.2.6

NR Band n25

Table 8-17
NR Band n25 Conducted Power – 20 MHz Bandwidth

NR Band n25 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	372000 (1860 MHz)	376500 (1882.5 MHz)	381000 (1905 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	23.95	23.84	23.66	0	0.0
	1	53	24.01	23.76	23.62		0.0
	1	104	23.96	23.68	23.81		0.0
	50	0	23.05	22.81	22.65	0-1	1.0
	50	28	23.97	23.81	23.71	0	0.0
	50	56	22.94	22.72	22.73	0-1	1.0
	100	0	22.95	22.77	22.70		1.0
DFT-s-OFDM 16QAM	1	1	22.75	22.56	22.68	0-1	1.0
CP-OFDM QPSK	1	1	22.52	22.47	22.23	0-1.5	1.5

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8.2.7

NR Band n7

Table 8-18
NR Band n7 Conducted Power – 20 MHz Bandwidth

NR Band n7 20 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	502000 (2510 MHz)	507000 (2535 MHz)	512000 (2560 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	24.41	24.36	24.24	0	0.0
	1	53	24.36	24.32	24.25		0.0
	1	104	24.32	24.23	24.13		0.0
	50	0	23.25	23.29	23.22	0-1	1.0
	50	28	24.37	24.27	24.26	0	0.0
	50	56	23.27	23.21	23.23	0-1	1.0
	100	0	23.31	23.26	23.21		1.0
DFT-s-OFDM 16QAM	1	1	23.12	23.01	22.97	0-1	1.0
CP-OFDM QPSK	1	1	22.91	22.86	22.75	0-1.5	1.5

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8.2.8

NR Band n41

Table 8-19
NR Band n41 Conducted Power – 20 MHz Bandwidth

NR Band n41 20 MHz Bandwidth									
			Channel					MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	501204 (2506.02 MHz)	509898 (2549.49 MHz)	518598 (2592.99 MHz)	527298 (2636.49 MHz)	535998 (2679.99 MHz)		
			Conducted Power [dBm]						
DFT-s-OFDM QPSK	1	1	24.34	24.27	24.12	23.98	24.03	0	0.0
	1	26	24.32	24.23	24.07	23.93	24.02		0.0
	1	49	24.20	24.18	23.89	23.91	24.02		0.0
	25	0	23.37	23.27	23.13	23.02	23.11	0-1	1.0
	25	13	24.35	24.32	24.15	24.04	24.16	0	0.0
	25	26	23.28	23.30	23.02	23.06	23.02	0-1	1.0
	50	0	23.26	23.24	23.09	23.01	23.04		1.0
DFT-s-OFDM 16QAM	1	1	23.10	23.00	23.00	22.76	22.80	0-1	1.0
CP-OFDM QPSK	1	1	23.00	22.79	22.62	22.58	22.54	0-1.5	1.5

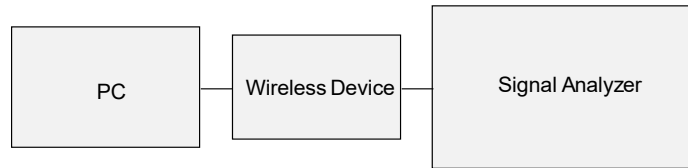


Figure 8-2
Power Measurement Setup

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8.3 WLAN Conducted Powers

Table 8-20
2.4 GHz WLAN Maximum Average RF Power

2.4GHz WIFI (20MHz 802.11b SISO)				2.4GHz WIFI (20MHz 802.11g SISO)				2.4GHz WIFI (20MHz 802.11n SISO)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	18.09	2412	1	Average	15.77	2412	1	Average	15.94
2437	6		17.95	2437	6		17.18	2437	6		17.30
2462	11		18.01	2462	11		12.79	2462	11		12.97

Table 8-21
5 GHz WLAN Maximum Average RF Power

5GHz WIFI (20MHz 802.11a SISO)				5GHz WIFI (20MHz 802.11n SISO)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	15.97	UNII-1	5180	36	15.95
	5200	40	15.95		5200	40	15.92
	5220	44	15.94		5220	44	15.89
	5240	48	16.00		5240	48	15.93
UNII-2A	5260	52	16.09	UNII-2A	5260	52	16.21
	5280	56	15.92		5280	56	15.96
	5300	60	16.16		5300	60	16.20
	5320	64	16.09		5320	64	16.27
UNII-2C	5500	100	16.03	UNII-2C	5500	100	15.90
	5600	120	16.08		5600	120	15.92
	5620	124	16.05		5620	124	15.97
	5720	144	15.98		5720	144	15.96
UNII-3	5745	149	15.69	UNII-3	5745	149	15.71
	5785	157	15.73		5785	157	15.80
	5825	165	15.87		5825	165	16.00

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

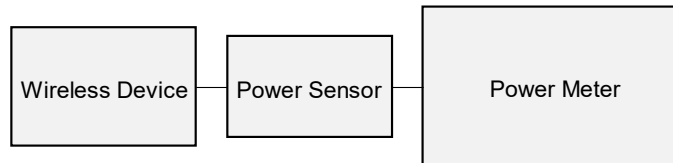


Figure 8-3
Power Measurement Setup

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8.4 Bluetooth Conducted Powers

Table 8-22
Bluetooth Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	15.82	38.194
2441	GFSK	1.0	39	15.55	35.892
2480	GFSK	1.0	78	15.75	37.584

Note 1: Bluetooth was evaluated with a test mode with 100% transmission duty factor.

Table 8-23
Bluetooth Reduced RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.63	14.555
2441	GFSK	1.0	39	11.10	12.882
2480	GFSK	1.0	78	11.55	14.289

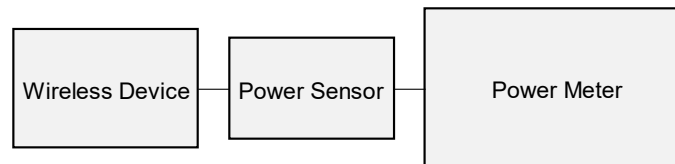


Figure 8-4
Power Measurement Setup

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8.5 802.15.4 ab-NB Conducted Powers

Table 8-24
802.15.4 ab-NB Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel	Avg Conducted Power	
				[dBm]	[mW]
5728.75	O-QPSK	1.0	Low	15.02	31.769
5786.25	O-QPSK	1.0	Mid	15.03	31.842
5846.25	O-QPSK	1.0	High	14.98	31.477

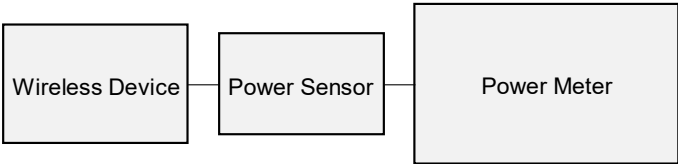
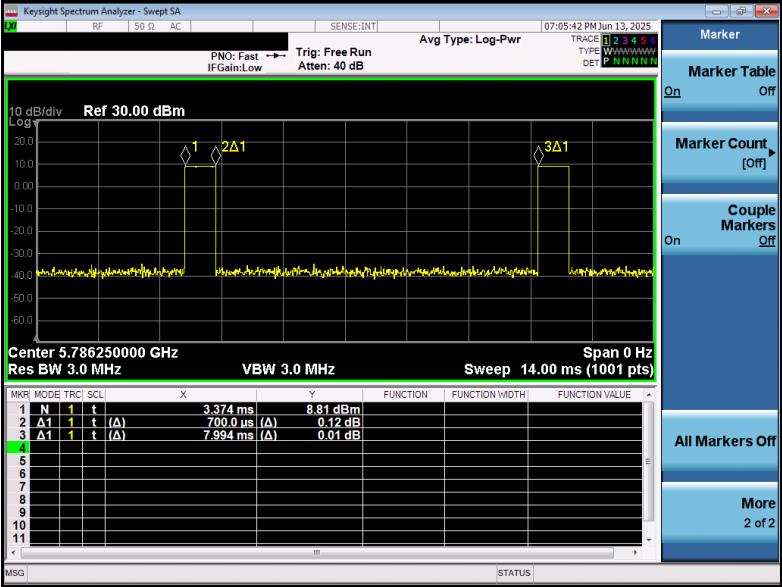


Figure 8-5
Power Measurement Setup

8.6 802.15.4 ab-NB Duty Cycle

Figure 8-6
802.15.4 ab-NB Transmission Plot



Equation 8-1
802.15.4 ab-NB Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{0.700\ ms}{7.994\ ms} * 100\% = 8.76\%$$

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
7/9/2025	13 Head	24.0	4	0.746	57.242	0.750	55.000	-0.53%	4.08%
			6	0.746	56.745	0.750	55.000	-0.53%	3.17%
			12	0.746	55.667	0.750	55.000	-0.53%	1.21%
			13	0.746	55.565	0.750	55.000	-0.53%	1.03%
			14	0.746	55.475	0.750	55.000	-0.53%	0.86%
			30	0.748	54.746	0.750	55.000	-0.27%	-0.46%
			60	0.753	54.009	0.753	54.325	0.00%	-0.58%
			65	0.754	53.968	0.753	54.213	0.13%	-0.45%
6/28/2025	750 Head	21.0	150	0.782	52.358	0.760	52.300	2.89%	0.11%
			680	0.885	41.360	0.888	42.305	-0.34%	-2.23%
			695	0.891	41.304	0.889	42.227	0.22%	-2.19%
			700	0.893	41.285	0.889	42.201	0.45%	-2.17%
			710	0.896	41.254	0.890	42.149	0.67%	-2.12%
			725	0.902	41.216	0.891	42.071	1.23%	-2.03%
			750	0.909	41.160	0.894	41.942	1.68%	-1.86%
			770	0.915	41.082	0.895	41.838	2.23%	-1.81%
7/3/2025	750 Head	20.7	785	0.920	41.029	0.896	41.760	2.68%	-1.75%
			800	0.926	40.970	0.897	41.682	3.23%	-1.71%
			680	0.871	40.995	0.888	42.305	-1.91%	-3.10%
			695	0.876	40.938	0.889	42.227	-1.46%	-3.05%
			700	0.878	40.924	0.889	42.201	-1.24%	-3.03%
			710	0.882	40.890	0.890	42.149	-0.90%	-2.99%
			725	0.887	40.849	0.891	42.071	-0.45%	-2.90%
			750	0.896	40.763	0.894	41.942	0.22%	-2.81%
7/5/2025	750 Head	20.7	770	0.903	40.689	0.895	41.838	0.89%	-2.75%
			785	0.908	40.642	0.896	41.760	1.34%	-2.68%
			800	0.913	40.594	0.897	41.682	1.78%	-2.61%
			680	0.860	41.088	0.888	42.305	-3.18%	-2.88%
			695	0.865	41.028	0.889	42.227	-2.72%	-2.84%
			700	0.867	41.014	0.889	42.201	-2.52%	-2.81%
			710	0.870	40.986	0.890	42.149	-2.25%	-2.76%
			725	0.876	40.948	0.891	42.071	-1.74%	-2.67%
7/5/2025	750 Head	23.6	750	0.884	40.888	0.894	41.942	-1.09%	-2.51%
			770	0.891	40.816	0.895	41.838	-0.46%	-2.44%
			785	0.896	40.759	0.896	41.760	0.00%	-2.40%
			800	0.902	40.702	0.897	41.682	0.55%	-2.35%
			680	0.857	40.522	0.888	42.305	-3.49%	-4.21%
			695	0.862	40.471	0.889	42.227	-3.04%	-4.16%
			700	0.864	40.460	0.889	42.201	-2.81%	-4.13%
			710	0.868	40.441	0.890	42.149	-2.47%	-4.05%
7/5/2025	750 Head	23.6	725	0.872	40.398	0.891	42.071	-2.13%	-3.98%
			750	0.880	40.317	0.894	41.942	-1.57%	-3.87%
			770	0.886	40.241	0.895	41.838	-1.01%	-3.82%
			785	0.891	40.190	0.896	41.760	-0.56%	-3.76%
			800	0.896	40.145	0.897	41.682	-0.11%	-3.69%

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7/7/2025	750 Head	20.8	680	0.870	40.563	0.888	42.305	-2.03%	-4.12%
			695	0.875	40.519	0.889	42.227	-1.57%	-4.04%
			700	0.877	40.498	0.889	42.201	-1.35%	-4.04%
			710	0.881	40.457	0.890	42.149	-1.01%	-4.01%
			725	0.886	40.415	0.891	42.071	-0.56%	-3.94%
			750	0.893	40.370	0.893	41.942	0.00%	-3.75%
			770	0.899	40.335	0.895	41.838	0.45%	-3.59%
			785	0.904	40.300	0.896	41.760	0.89%	-3.50%
			800	0.911	40.254	0.897	41.682	1.56%	-3.43%
7/7/2025	750 Head	23.6	680	0.876	41.835	0.888	42.305	-1.35%	-1.11%
			695	0.880	41.802	0.889	42.227	-1.00%	-1.01%
			700	0.882	41.793	0.889	42.201	-0.83%	-0.97%
			710	0.885	41.769	0.890	42.149	-0.61%	-0.90%
			725	0.890	41.720	0.891	42.071	-0.15%	-0.84%
			750	0.899	41.623	0.894	41.942	0.62%	-0.76%
			770	0.906	41.553	0.895	41.838	1.27%	-0.68%
			785	0.911	41.512	0.896	41.760	1.65%	-0.59%
			800	0.915	41.469	0.897	41.682	2.01%	-0.51%
7/9/2025	750 Head	24.1	680	0.871	41.874	0.888	42.305	-1.91%	-1.02%
			695	0.876	41.830	0.889	42.227	-1.46%	-0.94%
			700	0.878	41.812	0.889	42.201	-1.24%	-0.92%
			710	0.881	41.790	0.890	42.149	-1.01%	-0.85%
			725	0.885	41.743	0.891	42.071	-0.67%	-0.78%
			750	0.893	41.675	0.894	41.942	-0.11%	-0.64%
			770	0.899	41.624	0.895	41.838	0.45%	-0.51%
			785	0.905	41.592	0.896	41.760	1.00%	-0.40%
			800	0.910	41.552	0.897	41.682	1.45%	-0.31%
7/17/2025	750 Head	21.0	680	0.846	42.054	0.888	42.305	-4.73%	-0.59%
			695	0.852	42.017	0.889	42.227	-4.16%	-0.50%
			700	0.854	42.011	0.889	42.201	-3.94%	-0.45%
			710	0.857	41.992	0.890	42.149	-3.71%	-0.37%
			725	0.862	41.958	0.891	42.071	-3.25%	-0.27%
			750	0.869	41.859	0.894	41.942	-2.80%	-0.20%
			770	0.876	41.766	0.895	41.838	-2.12%	-0.17%
			785	0.882	41.713	0.896	41.760	-1.56%	-0.11%
			800	0.888	41.685	0.897	41.682	-1.00%	0.01%
7/17/2025	750 Head	24.0	680	0.853	41.023	0.888	42.305	-3.94%	-3.03%
			695	0.858	41.009	0.889	42.227	-3.49%	-2.88%
			700	0.860	41.006	0.889	42.201	-3.26%	-2.83%
			710	0.862	41.002	0.890	42.149	-3.15%	-2.72%
			725	0.866	40.982	0.891	42.071	-2.81%	-2.59%
			750	0.873	40.874	0.894	41.942	-2.35%	-2.55%
			770	0.880	40.764	0.895	41.838	-1.68%	-2.57%
			785	0.885	40.704	0.896	41.760	-1.23%	-2.53%
			800	0.890	40.677	0.897	41.682	-0.78%	-2.41%
7/19/2025	750 Head	20.0	680	0.846	41.210	0.888	42.305	-4.73%	-2.59%
			695	0.852	41.173	0.889	42.227	-4.16%	-2.50%
			700	0.854	41.164	0.889	42.201	-3.94%	-2.46%
			710	0.858	41.135	0.890	42.149	-3.60%	-2.41%
			725	0.864	41.085	0.891	42.071	-3.03%	-2.34%
			750	0.872	41.011	0.894	41.942	-2.46%	-2.22%
			770	0.879	40.956	0.895	41.838	-1.79%	-2.11%
			785	0.884	40.920	0.896	41.760	-1.34%	-2.01%
			800	0.890	40.878	0.897	41.682	-0.78%	-1.93%

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6/24/2025	835 Head	20.7	815	0.881	42.531	0.898	41.594	-1.89%	2.25%
			820	0.886	42.462	0.899	41.578	-1.45%	2.13%
			835	0.900	42.258	0.900	41.500	0.00%	1.83%
			850	0.915	42.067	0.916	41.500	-0.11%	1.37%
6/30/2025	835 Head	20.6	815	0.881	41.186	0.898	41.594	-1.89%	-0.98%
			820	0.885	41.124	0.899	41.578	-1.56%	-1.09%
			835	0.900	40.932	0.900	41.500	0.00%	-1.37%
			850	0.914	40.743	0.916	41.500	-0.22%	-1.82%
7/3/2025	835 Head	20.6	815	0.861	40.161	0.898	41.594	-4.12%	-3.45%
			820	0.866	40.093	0.899	41.578	-3.67%	-3.57%
			835	0.880	39.893	0.900	41.500	-2.22%	-3.87%
			850	0.894	39.705	0.916	41.500	-2.40%	-4.33%
7/6/2025	835 Head	21.0	815	0.894	41.366	0.898	41.594	-0.49%	-0.55%
			820	0.898	41.286	0.899	41.578	-0.11%	-0.70%
			835	0.912	41.052	0.900	41.500	1.33%	-1.08%
			850	0.927	40.852	0.916	41.500	1.16%	-1.56%
7/16/2025	835 Head	21.4	815	0.861	40.750	0.898	41.594	-4.12%	-2.03%
			820	0.866	40.681	0.899	41.578	-3.67%	-2.16%
			835	0.880	40.472	0.900	41.500	-2.22%	-2.48%
			850	0.894	40.276	0.916	41.500	-2.40%	-2.95%
6/25/2025	1750 Head	20.0	1700	1.359	39.632	1.343	40.145	1.19%	-1.28%
			1705	1.365	39.613	1.345	40.141	1.49%	-1.32%
			1710	1.370	39.589	1.348	40.136	1.63%	-1.36%
			1720	1.379	39.547	1.354	40.126	1.85%	-1.44%
			1745	1.405	39.430	1.368	40.087	2.70%	-1.64%
			1750	1.410	39.406	1.371	40.079	2.84%	-1.68%
			1770	1.431	39.313	1.383	40.047	3.47%	-1.83%
7/1/2025	1750 Head	20.8	1790	1.450	39.229	1.394	40.016	4.02%	-1.97%
			1700	1.348	38.887	1.343	40.145	0.37%	-3.13%
			1705	1.354	38.855	1.345	40.141	0.67%	-3.20%
			1710	1.361	38.823	1.348	40.136	0.96%	-3.27%
			1720	1.375	38.767	1.354	40.126	1.55%	-3.39%
			1745	1.412	38.660	1.368	40.087	3.22%	-3.56%
			1750	1.418	38.644	1.371	40.079	3.43%	-3.58%
7/2/2025	1750 Head	19.4	1770	1.436	38.584	1.383	40.047	3.83%	-3.65%
			1790	1.449	38.505	1.394	40.016	3.95%	-3.78%
			1700	1.325	38.788	1.343	40.145	-1.34%	-3.38%
			1705	1.330	38.758	1.345	40.141	-1.12%	-3.45%
			1710	1.336	38.730	1.348	40.136	-0.89%	-3.50%
			1720	1.346	38.671	1.354	40.126	-0.59%	-3.63%
			1745	1.373	38.525	1.368	40.087	0.37%	-3.90%
6/23/2025	1900 Head	20.6	1750	1.379	38.496	1.371	40.079	0.58%	-3.95%
			1770	1.400	38.379	1.383	40.047	1.23%	-4.17%
			1790	1.421	38.268	1.394	40.016	1.94%	-4.37%
			1850	1.384	40.493	1.400	40.000	-1.14%	1.23%
			1860	1.397	40.452	1.400	40.000	-0.21%	1.13%
			1880	1.418	40.428	1.400	40.000	1.29%	1.07%
			1900	1.433	40.423	1.400	40.000	2.36%	1.06%
			1905	1.436	40.412	1.400	40.000	2.57%	1.03%
			1910	1.439	40.393	1.400	40.000	2.79%	0.98%
			1920	1.446	40.337	1.400	40.000	3.29%	0.84%

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6/25/2025	1900 Head	20.7	1850	1.378	39.398	1.400	40.000	-1.57%	-1.50%
			1860	1.388	39.347	1.400	40.000	-0.86%	-1.63%
			1880	1.411	39.266	1.400	40.000	0.79%	-1.84%
			1900	1.435	39.201	1.400	40.000	2.50%	-2.00%
			1905	1.440	39.184	1.400	40.000	2.86%	-2.04%
			1910	1.446	39.166	1.400	40.000	3.29%	-2.09%
			1920	1.456	39.124	1.400	40.000	4.00%	-2.19%
6/10/2025	2450 Head	24.6	2300	1.664	38.949	1.670	39.500	-0.36%	-1.39%
			2310	1.675	38.918	1.679	39.480	-0.24%	-1.42%
			2320	1.687	38.888	1.687	39.460	0.00%	-1.45%
			2400	1.778	38.562	1.756	39.289	1.25%	-1.85%
			2450	1.837	38.377	1.800	39.200	2.06%	-2.10%
			2480	1.870	38.248	1.833	39.162	2.02%	-2.33%
			2500	1.893	38.165	1.855	39.136	2.05%	-2.48%
			2510	1.905	38.126	1.866	39.123	2.09%	-2.55%
			2535	1.935	38.029	1.893	39.092	2.22%	-2.72%
			2550	1.952	37.971	1.909	39.073	2.25%	-2.82%
			2560	1.964	37.927	1.920	39.060	2.29%	-2.90%
			2600	2.009	37.755	1.964	39.009	2.29%	-3.21%
			2650	2.069	37.555	2.018	38.945	2.53%	-3.57%
			2680	2.102	37.423	2.051	38.907	2.49%	-3.81%
6/12/2025	2450 Head	24.6	2700	2.124	37.344	2.073	38.882	2.46%	-3.96%
			2300	1.672	39.002	1.670	39.500	0.12%	-1.26%
			2310	1.683	38.962	1.679	39.480	0.24%	-1.31%
			2320	1.694	38.922	1.687	39.460	0.41%	-1.36%
			2400	1.785	38.602	1.756	39.289	1.65%	-1.75%
			2450	1.842	38.417	1.800	39.200	2.33%	-2.00%
			2480	1.878	38.299	1.833	39.162	2.45%	-2.20%
			2500	1.902	38.223	1.855	39.136	2.53%	-2.33%
			2510	1.913	38.186	1.866	39.123	2.52%	-2.40%
			2535	1.943	38.087	1.893	39.092	2.64%	-2.57%
			2550	1.961	38.025	1.909	39.073	2.72%	-2.68%
			2560	1.973	37.983	1.920	39.060	2.76%	-2.76%
			2600	2.023	37.822	1.964	39.009	3.00%	-3.04%
			2650	2.082	37.623	2.018	38.945	3.17%	-3.39%
6/19/2025	2450 Head	23.5	2680	2.117	37.494	2.051	38.907	3.22%	-3.63%
			2700	2.142	37.412	2.073	38.882	3.33%	-3.78%
			2300	1.694	38.776	1.670	39.500	1.44%	-1.83%
			2310	1.705	38.730	1.679	39.480	1.55%	-1.90%
			2320	1.717	38.691	1.687	39.460	1.78%	-1.95%
			2400	1.810	38.410	1.756	39.289	3.08%	-2.24%
			2450	1.868	38.198	1.800	39.200	3.78%	-2.56%
			2480	1.905	38.089	1.833	39.162	3.93%	-2.74%
			2500	1.927	38.010	1.855	39.136	3.88%	-2.88%
			2510	1.938	37.967	1.866	39.123	3.86%	-2.95%
			2535	1.965	37.861	1.893	39.092	3.80%	-3.15%
			2550	1.983	37.800	1.909	39.073	3.88%	-3.26%
			2560	1.995	37.760	1.920	39.060	3.91%	-3.33%
			2600	2.046	37.608	1.964	39.009	4.18%	-3.59%
			2650	2.102	37.400	2.018	38.945	4.16%	-3.97%
			2680	2.137	37.274	2.051	38.907	4.19%	-4.20%
			2700	2.162	37.192	2.073	38.882	4.29%	-4.35%

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6/22/2025	2450 Head	21.0	2300	1.724	38.910	1.670	39.500	3.23%	-1.49%
			2310	1.732	38.891	1.679	39.480	3.16%	-1.49%
			2320	1.739	38.877	1.687	39.460	3.08%	-1.48%
			2400	1.796	38.758	1.756	39.289	2.28%	-1.35%
			2450	1.834	38.682	1.800	39.200	1.89%	-1.32%
			2480	1.855	38.635	1.833	39.162	1.20%	-1.35%
			2500	1.870	38.607	1.855	39.136	0.81%	-1.35%
			2510	1.877	38.593	1.866	39.123	0.59%	-1.35%
			2535	1.899	38.559	1.893	39.092	0.32%	-1.36%
			2550	1.911	38.537	1.909	39.073	0.10%	-1.37%
			2560	1.919	38.523	1.920	39.060	-0.05%	-1.37%
			2600	1.949	38.452	1.964	39.009	-0.76%	-1.43%
			2650	1.990	38.366	2.018	38.945	-1.39%	-1.49%
			2680	2.013	38.313	2.051	38.907	-1.85%	-1.53%
6/23/2025	2450 Head	24.7	2700	2.029	38.281	2.073	38.882	-2.12%	-1.55%
			2300	1.654	39.265	1.670	39.500	-0.96%	-0.59%
			2310	1.665	39.233	1.679	39.480	-0.83%	-0.63%
			2320	1.676	39.197	1.687	39.460	-0.65%	-0.67%
			2400	1.767	38.873	1.756	39.289	0.63%	-1.06%
			2450	1.826	38.699	1.800	39.200	1.44%	-1.28%
			2480	1.861	38.556	1.833	39.162	1.53%	-1.55%
			2500	1.884	38.471	1.855	39.136	1.56%	-1.70%
			2510	1.896	38.437	1.866	39.123	1.61%	-1.75%
			2535	1.925	38.358	1.893	39.092	1.69%	-1.88%
			2550	1.942	38.301	1.909	39.073	1.73%	-1.98%
			2560	1.954	38.256	1.920	39.060	1.77%	-2.06%
			2600	2.002	38.069	1.964	39.009	1.93%	-2.41%
			2650	2.062	37.891	2.018	38.945	2.18%	-2.71%
			2680	2.094	37.767	2.051	38.907	2.10%	-2.93%
7/6/2025	2450 Head	19.4	2700	2.118	37.670	2.073	38.882	2.17%	-3.12%
			2300	1.700	37.781	1.670	39.500	1.80%	-4.35%
			2310	1.707	37.768	1.679	39.480	1.69%	-4.34%
			2320	1.715	37.755	1.687	39.460	1.64%	-4.32%
			2400	1.775	37.620	1.756	39.289	1.06%	-4.25%
			2450	1.810	37.555	1.800	39.200	0.57%	-4.20%
			2480	1.835	37.499	1.833	39.162	0.09%	-4.25%
			2500	1.852	37.466	1.855	39.136	-0.18%	-4.27%
			2510	1.859	37.452	1.866	39.123	-0.38%	-4.27%
			2535	1.878	37.415	1.893	39.092	-0.78%	-4.29%
			2550	1.891	37.388	1.909	39.073	-0.97%	-4.31%
			2560	1.899	37.371	1.920	39.060	-1.09%	-4.33%
			2600	1.934	37.283	1.964	39.009	-1.55%	-4.42%
			2650	1.973	37.203	2.018	38.945	-2.25%	-4.47%
			2680	1.998	37.139	2.051	38.907	-2.57%	-4.54%
			2700	2.015	37.096	2.073	38.882	-2.79%	-4.59%

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7/8/2025	2450 Head	19.3	2300	1.718	38.657	1.670	39.500	2.87%	-2.13%
			2310	1.726	38.644	1.679	39.480	2.80%	-2.12%
			2320	1.734	38.631	1.687	39.460	2.79%	-2.10%
			2400	1.794	38.474	1.756	39.289	2.16%	-2.07%
			2450	1.833	38.385	1.800	39.200	1.83%	-2.08%
			2480	1.857	38.317	1.833	39.162	1.31%	-2.16%
			2500	1.873	38.285	1.855	39.136	0.97%	-2.17%
			2510	1.880	38.268	1.866	39.123	0.75%	-2.19%
			2535	1.898	38.228	1.893	39.092	0.26%	-2.21%
			2550	1.909	38.198	1.909	39.073	0.00%	-2.24%
			2560	1.917	38.173	1.920	39.060	-0.16%	-2.27%
			2600	1.952	38.088	1.964	39.009	-0.61%	-2.36%
			2650	1.991	38.021	2.018	38.945	-1.34%	-2.37%
			2680	2.014	37.960	2.051	38.907	-1.80%	-2.43%
			2700	2.031	37.909	2.073	38.882	-2.03%	-2.50%
7/20/2025	2450 Head	19.4	2300	1.679	37.978	1.670	39.500	0.54%	-3.85%
			2310	1.687	37.964	1.679	39.480	0.48%	-3.84%
			2320	1.696	37.946	1.687	39.460	0.53%	-3.84%
			2400	1.755	37.808	1.756	39.289	-0.06%	-3.77%
			2450	1.794	37.745	1.800	39.200	-0.33%	-3.71%
			2480	1.819	37.686	1.833	39.162	-0.76%	-3.77%
			2500	1.834	37.652	1.855	39.136	-1.13%	-3.79%
			2510	1.841	37.639	1.866	39.123	-1.34%	-3.79%
			2535	1.862	37.594	1.893	39.092	-1.64%	-3.83%
			2550	1.875	37.569	1.909	39.073	-1.78%	-3.85%
			2560	1.884	37.553	1.920	39.060	-1.88%	-3.86%
			2600	1.915	37.472	1.964	39.009	-2.49%	-3.94%
			2650	1.958	37.383	2.018	38.945	-2.97%	-4.01%
			2680	1.984	37.318	2.051	38.907	-3.27%	-4.08%
			2700	2.000	37.279	2.073	38.882	-3.52%	-4.12%

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6/19/2025	5200-5800 Head	19.0	5150	4.566	35.352	4.608	36.050	-0.91%	-1.94%
			5160	4.582	35.330	4.618	36.040	-0.78%	-1.97%
			5170	4.599	35.316	4.629	36.030	-0.65%	-1.98%
			5180	4.611	35.280	4.635	36.009	-0.52%	-2.02%
			5190	4.625	35.252	4.645	35.998	-0.43%	-2.07%
			5200	4.640	35.237	4.655	35.986	-0.32%	-2.08%
			5210	4.654	35.233	4.666	35.975	-0.26%	-2.06%
			5220	4.662	35.229	4.676	35.963	-0.30%	-2.04%
			5240	4.677	35.176	4.696	35.940	-0.40%	-2.13%
			5250	4.690	35.150	4.706	35.929	-0.34%	-2.17%
			5260	4.700	35.129	4.717	35.917	-0.36%	-2.19%
			5270	4.711	35.109	4.727	35.906	-0.34%	-2.22%
			5280	4.722	35.077	4.737	35.894	-0.32%	-2.28%
			5290	4.738	35.044	4.748	35.883	-0.21%	-2.34%
			5300	4.752	35.017	4.758	35.871	-0.13%	-2.38%
			5310	4.766	35.012	4.768	35.860	-0.04%	-2.36%
			5320	4.776	35.005	4.778	35.849	-0.04%	-2.35%
			5500	4.981	34.606	4.963	35.643	0.36%	-2.91%
			5510	4.997	34.600	4.973	35.632	0.48%	-2.90%
			5520	5.006	34.597	4.983	35.620	0.46%	-2.87%
			5530	5.017	34.577	4.994	35.609	0.46%	-2.90%
			5540	5.029	34.547	5.004	35.597	0.50%	-2.95%
			5550	5.040	34.529	5.014	35.586	0.52%	-2.97%
			5560	5.051	34.513	5.024	35.574	0.54%	-2.98%
			5580	5.064	34.472	5.045	35.551	0.38%	-3.04%
			5600	5.095	34.399	5.065	35.529	0.59%	-3.18%
			5610	5.117	34.386	5.076	35.518	0.81%	-3.19%
			5620	5.133	34.382	5.086	35.506	0.92%	-3.17%
			5640	5.161	34.352	5.106	35.483	1.08%	-3.19%
			5660	5.176	34.307	5.127	35.460	0.96%	-3.25%
			5670	5.180	34.290	5.137	35.449	0.84%	-3.27%
			5680	5.188	34.276	5.147	35.437	0.80%	-3.28%
			5690	5.202	34.253	5.158	35.426	0.85%	-3.31%
			5700	5.215	34.215	5.168	35.414	0.91%	-3.39%
			5710	5.228	34.175	5.178	35.403	0.97%	-3.47%
			5720	5.243	34.145	5.188	35.391	1.06%	-3.52%
			5745	5.280	34.117	5.214	35.363	1.27%	-3.52%
			5750	5.285	34.115	5.219	35.357	1.26%	-3.51%
			5755	5.290	34.111	5.224	35.351	1.26%	-3.51%
			5765	5.303	34.099	5.234	35.340	1.32%	-3.51%
			5775	5.315	34.084	5.245	35.329	1.33%	-3.52%
			5785	5.322	34.058	5.255	35.317	1.27%	-3.56%
			5795	5.327	34.028	5.265	35.305	1.18%	-3.62%
			5800	5.332	34.012	5.270	35.300	1.18%	-3.65%
			5805	5.337	33.997	5.275	35.294	1.18%	-3.67%
			5825	5.371	33.935	5.296	35.271	1.42%	-3.79%
			5835	5.387	33.929	5.305	35.230	1.55%	-3.69%
			5845	5.400	33.925	5.315	35.210	1.60%	-3.65%
			5850	5.404	33.922	5.320	35.200	1.58%	-3.63%
			5855	5.409	33.916	5.325	35.197	1.58%	-3.64%
			5865	5.420	33.896	5.336	35.190	1.57%	-3.68%
			5875	5.432	33.878	5.347	35.183	1.59%	-3.71%
			5885	5.444	33.865	5.357	35.177	1.62%	-3.73%
			5905	5.458	33.811	5.379	35.163	1.47%	-3.84%

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6/22/2025	5200-5800 Head	20.0	5150	4.464	35.260	4.608	36.050	-3.12%	-2.19%
			5160	4.479	35.257	4.618	36.040	-3.01%	-2.17%
			5170	4.487	35.237	4.629	36.030	-3.07%	-2.20%
			5180	4.495	35.206	4.635	36.009	-3.02%	-2.23%
			5190	4.505	35.186	4.645	35.998	-3.01%	-2.26%
			5200	4.516	35.171	4.655	35.986	-2.99%	-2.26%
			5210	4.527	35.161	4.666	35.975	-2.98%	-2.26%
			5220	4.538	35.146	4.676	35.963	-2.95%	-2.27%
			5240	4.569	35.095	4.696	35.940	-2.70%	-2.35%
			5250	4.579	35.078	4.706	35.929	-2.70%	-2.37%
			5260	4.587	35.075	4.717	35.917	-2.76%	-2.34%
			5270	4.593	35.065	4.727	35.906	-2.83%	-2.34%
			5280	4.604	35.047	4.737	35.894	-2.81%	-2.36%
			5290	4.614	35.025	4.748	35.883	-2.82%	-2.39%
			5300	4.629	34.994	4.758	35.871	-2.71%	-2.44%
			5310	4.640	34.971	4.768	35.860	-2.68%	-2.48%
			5320	4.651	34.950	4.778	35.849	-2.66%	-2.51%
			5500	4.849	34.633	4.963	35.643	-2.30%	-2.83%
			5510	4.859	34.627	4.973	35.632	-2.29%	-2.82%
			5520	4.871	34.627	4.983	35.620	-2.25%	-2.79%
			5530	4.880	34.592	4.994	35.609	-2.28%	-2.86%
			5540	4.893	34.551	5.004	35.597	-2.22%	-2.94%
			5550	4.905	34.520	5.014	35.586	-2.17%	-3.00%
			5560	4.920	34.514	5.024	35.574	-2.07%	-2.98%
			5580	4.939	34.502	5.045	35.551	-2.10%	-2.95%
			5600	4.959	34.437	5.065	35.529	-2.09%	-3.07%
			5610	4.971	34.423	5.076	35.518	-2.07%	-3.08%
			5620	4.982	34.422	5.086	35.506	-2.04%	-3.05%
			5640	5.008	34.388	5.106	35.483	-1.92%	-3.09%
			5660	5.039	34.322	5.127	35.460	-1.72%	-3.21%
			5670	5.049	34.303	5.137	35.449	-1.71%	-3.23%
			5680	5.056	34.299	5.147	35.437	-1.77%	-3.21%
			5690	5.061	34.289	5.158	35.426	-1.88%	-3.21%
			5700	5.076	34.278	5.168	35.414	-1.78%	-3.21%
			5710	5.089	34.260	5.178	35.403	-1.72%	-3.23%
			5720	5.099	34.247	5.188	35.391	-1.72%	-3.23%
			5745	5.128	34.190	5.214	35.363	-1.65%	-3.32%
			5750	5.137	34.179	5.219	35.357	-1.57%	-3.33%
			5755	5.143	34.164	5.224	35.351	-1.55%	-3.36%
			5765	5.155	34.144	5.234	35.340	-1.51%	-3.38%
			5775	5.165	34.133	5.245	35.329	-1.53%	-3.39%
			5785	5.177	34.124	5.255	35.317	-1.48%	-3.38%
			5795	5.189	34.105	5.265	35.305	-1.44%	-3.40%
			5800	5.195	34.092	5.270	35.300	-1.42%	-3.42%
			5805	5.200	34.082	5.275	35.294	-1.42%	-3.43%
			5825	5.217	34.067	5.296	35.271	-1.49%	-3.41%
			5835	5.227	34.051	5.305	35.230	-1.47%	-3.35%
			5845	5.237	34.027	5.315	35.210	-1.47%	-3.36%
			5850	5.243	34.014	5.320	35.200	-1.45%	-3.37%
			5855	5.247	34.004	5.325	35.197	-1.46%	-3.39%
			5875	5.280	33.959	5.347	35.183	-1.25%	-3.48%
			5885	5.298	33.941	5.357	35.177	-1.10%	-3.51%
			5905	5.311	33.913	5.379	35.163	-1.26%	-3.55%

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Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
6/24/2025	5200-5800 Head	19.0	5150	4.488	35.232	4.608	36.050	-2.60%	-2.27%
			5160	4.500	35.215	4.618	36.040	-2.56%	-2.29%
			5170	4.514	35.193	4.629	36.030	-2.48%	-2.32%
			5180	4.528	35.166	4.635	36.009	-2.31%	-2.34%
			5190	4.544	35.144	4.645	35.998	-2.17%	-2.37%
			5200	4.557	35.130	4.655	35.986	-2.11%	-2.38%
			5210	4.568	35.120	4.666	35.975	-2.10%	-2.38%
			5220	4.575	35.100	4.676	35.963	-2.16%	-2.40%
			5240	4.595	35.047	4.696	35.940	-2.15%	-2.48%
			5250	4.606	35.036	4.706	35.929	-2.12%	-2.49%
			5260	4.615	35.021	4.717	35.917	-2.16%	-2.49%
			5270	4.626	35.000	4.727	35.906	-2.14%	-2.52%
			5280	4.641	34.968	4.737	35.894	-2.03%	-2.58%
			5290	4.659	34.938	4.748	35.883	-1.87%	-2.63%
			5300	4.672	34.921	4.758	35.871	-1.81%	-2.65%
			5310	4.680	34.914	4.768	35.860	-1.85%	-2.64%
			5320	4.688	34.901	4.778	35.849	-1.88%	-2.64%
			5500	4.897	34.533	4.963	35.643	-1.33%	-3.11%
			5510	4.911	34.513	4.973	35.632	-1.25%	-3.14%
			5520	4.922	34.503	4.983	35.620	-1.22%	-3.14%
			5530	4.936	34.479	4.994	35.609	-1.16%	-3.17%
			5540	4.947	34.453	5.004	35.597	-1.14%	-3.21%
			5550	4.958	34.436	5.014	35.586	-1.12%	-3.23%
			5560	4.967	34.422	5.024	35.574	-1.13%	-3.24%
			5580	4.983	34.396	5.045	35.551	-1.23%	-3.25%
			5600	5.014	34.328	5.065	35.529	-1.01%	-3.38%
			5610	5.031	34.304	5.076	35.518	-0.89%	-3.42%
			5620	5.042	34.301	5.086	35.506	-0.87%	-3.39%
			5640	5.072	34.264	5.106	35.483	-0.67%	-3.44%
			5660	5.092	34.228	5.127	35.460	-0.68%	-3.47%
			5670	5.099	34.222	5.137	35.449	-0.74%	-3.46%
			5680	5.107	34.205	5.147	35.437	-0.78%	-3.48%
			5690	5.119	34.178	5.158	35.426	-0.76%	-3.52%
			5700	5.132	34.146	5.168	35.414	-0.70%	-3.58%
			5710	5.146	34.118	5.178	35.403	-0.62%	-3.63%
			5720	5.160	34.094	5.188	35.391	-0.54%	-3.66%
			5745	5.194	34.050	5.214	35.363	-0.38%	-3.71%
			5750	5.201	34.045	5.219	35.357	-0.34%	-3.71%
			5755	5.208	34.039	5.224	35.351	-0.31%	-3.71%
			5765	5.220	34.029	5.234	35.340	-0.27%	-3.71%
			5775	5.229	34.011	5.245	35.329	-0.31%	-3.73%
			5785	5.235	33.987	5.255	35.317	-0.38%	-3.77%
			5795	5.243	33.962	5.265	35.305	-0.42%	-3.80%
			5800	5.249	33.944	5.270	35.300	-0.40%	-3.84%
			5805	5.255	33.930	5.275	35.294	-0.38%	-3.86%
			5825	5.281	33.884	5.296	35.271	-0.28%	-3.93%
			5835	5.294	33.871	5.305	35.230	-0.21%	-3.86%
			5845	5.307	33.867	5.315	35.210	-0.15%	-3.81%
			5850	5.314	33.864	5.320	35.200	-0.11%	-3.80%
			5855	5.320	33.858	5.325	35.197	-0.09%	-3.80%
			5865	5.330	33.837	5.336	35.190	-0.11%	-3.84%
			5875	5.342	33.814	5.347	35.183	-0.09%	-3.89%
			5885	5.357	33.799	5.357	35.177	0.00%	-3.92%
			5905	5.375	33.754	5.379	35.163	-0.07%	-4.01%

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The above measured tissue parameters were used in DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests.

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9.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in the SAR System Validation Appendix.

Table 9-2
System Verification Results – 1g

System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	Deviation 1g (%)
AM10	750	HEAD	07/05/2025	23.2	22.0	0.20	1097	3837	793	1.580	8.270	-4.47%
AM1	750	HEAD	07/07/2025	21.6	21.0	0.20	1057	7357	1582	1.860	8.800	5.68%
AM10	750	HEAD	07/07/2025	22.1	22.3	0.20	1057	3837	793	1.750	8.800	-0.57%
AM1	750	HEAD	07/17/2025	23.0	21.0	0.20	1057	7357	1582	1.840	8.800	4.55%
AM10	750	HEAD	07/17/2025	20.5	22.1	0.20	1057	3837	793	1.700	8.800	-3.41%
AM1	750	HEAD	07/19/2025	22.4	21.0	0.20	1057	7357	1582	1.770	8.800	0.57%
AM12	835	HEAD	06/30/2025	23.7	20.5	0.20	4d108	7427	1408	2.000	9.800	2.04%
AM12	835	HEAD	07/03/2025	21.6	20.1	0.20	4d108	7427	1408	2.070	9.800	5.61%
AM12	835	HEAD	07/06/2025	20.7	20.3	0.20	4d108	7427	1408	2.030	9.800	3.57%
AM14	1750	HEAD	07/01/2025	21.8	20.6	0.10	1040	3746	1237	3.540	36.400	-2.75%
AM15	1900	HEAD	06/25/2025	22.1	21.5	0.10	5d180	7638	467	4.070	39.200	3.83%
AM16	2450	HEAD	06/12/2025	21.5	23.3	0.10	750	7532	501	5.380	53.300	0.94%
AM14	2450	HEAD	06/19/2025	22.1	24.4	0.10	921	3746	1237	5.050	52.200	-3.26%
AM14	2450	HEAD	06/23/2025	21.3	22.8	0.10	750	3746	1237	5.300	53.300	-0.56%
AM7	2450	HEAD	07/06/2025	20.7	19.5	0.10	921	7490	1644	4.960	52.200	-4.98%
AM7	2450	HEAD	07/08/2025	20.7	19.3	0.10	921	7490	1644	5.490	52.200	5.17%
AM14	2600	HEAD	06/19/2025	22.1	24.4	0.10	1042	3746	1237	5.690	54.900	3.64%
AM14	2600	HEAD	06/23/2025	22.5	22.8	0.10	1042	3746	1237	5.480	54.900	-0.18%
AM7	2600	HEAD	07/06/2025	20.7	19.5	0.10	1069	7490	1644	5.730	56.200	1.96%
AM7	2600	HEAD	07/08/2025	20.7	19.3	0.10	1069	7490	1644	5.980	56.200	6.41%
AM9	5250	HEAD	06/19/2025	22.3	19.9	0.05	1066	7782	1646	3.680	77.900	-5.52%
AM8	5250	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.160	77.900	6.80%
AM9	5600	HEAD	06/19/2025	22.3	19.9	0.05	1066	7782	1646	4.400	81.800	7.58%
AM8	5600	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.290	81.800	4.89%
AM9	5750	HEAD	06/19/2025	22.3	19.9	0.05	1066	7782	1646	3.870	80.700	-4.09%
AM8	5750	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.170	80.700	3.35%
AM9	5850	HEAD	06/19/2025	22.3	19.9	0.05	1066	7782	1646	3.940	77.400	1.81%
AM8	5850	HEAD	06/22/2025	20.3	19.0	0.05	1066	7499	1465	4.040	77.400	4.39%

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Table 9-3
System Verification Results – 10g

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
AM14	13	HEAD	07/09/2025	22.3	22.5	1.00	1004	3746	1237	0.365	0.355	0.365	2.82%
AM1	750	HEAD	06/28/2025	22.6	21.0	0.20	1097	7357	1582	1.170	5.380	5.850	8.74%
AM1	750	HEAD	07/03/2025	22.0	21.1	0.20	1057	7357	1582	1.160	5.730	5.800	1.22%
AM1	750	HEAD	07/05/2025	21.7	20.4	0.20	1097	7357	1582	1.130	5.380	5.650	5.02%
AM10	750	HEAD	07/05/2025	23.2	22.0	0.20	1097	3837	793	1.060	5.380	5.300	-1.49%
AM10	750	HEAD	07/09/2025	20.9	23.0	0.20	1057	3837	793	1.090	5.730	5.450	-4.89%
AM12	835	HEAD	06/24/2025	22.7	21.0	0.20	4d108	7427	1408	1.310	6.340	6.550	3.31%
AM12	835	HEAD	07/03/2025	21.6	20.1	0.20	4d108	7427	1408	1.360	6.340	6.800	7.26%
AM12	835	HEAD	07/16/2025	21.4	20.4	0.20	4d108	7427	1408	1.260	6.340	6.300	-0.63%
AM12	1750	HEAD	06/25/2025	23.2	20.2	0.10	1040	7427	1408	1.890	19.100	18.900	-1.05%
AM12	1750	HEAD	07/02/2025	19.4	20.0	0.10	1040	7427	1408	1.850	19.100	18.500	-3.14%
AM15	1900	HEAD	06/23/2025	21.2	20.9	0.10	5d180	7638	467	2.170	20.600	21.700	5.34%
AM15	1900	HEAD	06/25/2025	22.1	21.5	0.10	5d180	7638	467	2.110	20.600	21.100	2.43%
AM16	2450	HEAD	06/10/2025	22.0	23.1	0.10	750	7532	501	2.370	25.100	23.700	-5.58%
AM16	2450	HEAD	06/12/2025	21.5	23.3	0.10	750	7532	501	2.430	25.100	24.300	-3.19%
AM1	2450	HEAD	06/22/2025	23.3	20.7	0.10	855	7357	1582	2.430	24.600	24.300	-1.22%
AM7	2450	HEAD	07/20/2025	20.2	19.0	0.10	750	7490	1644	2.590	25.100	25.900	3.19%
AM1	2600	HEAD	06/22/2025	23.3	20.7	0.10	1068	7357	1582	2.450	25.400	24.500	-3.54%
AM7	2600	HEAD	07/20/2025	20.2	19.0	0.10	1042	7490	1644	2.610	24.500	26.100	6.53%
AM9	5250	HEAD	06/19/2025	22.3	19.9	0.05	1066	7782	1646	1.070	22.500	21.400	-4.89%
AM9	5250	HEAD	06/24/2025	21.1	19.4	0.05	1066	7782	1646	1.130	22.500	22.600	0.44%
AM9	5600	HEAD	06/19/2025	22.3	19.9	0.05	1066	7782	1646	1.250	23.700	25.000	5.49%
AM9	5600	HEAD	06/24/2025	21.1	19.4	0.05	1066	7782	1646	1.210	23.700	24.200	2.11%
AM9	5750	HEAD	06/19/2025	22.3	19.9	0.05	1066	7782	1646	1.110	23.200	22.200	-4.31%
AM9	5750	HEAD	06/24/2025	21.1	19.4	0.05	1066	7782	1646	1.130	23.200	22.600	-2.59%
AM9	5850	HEAD	06/19/2025	22.3	19.9	0.05	1066	7782	1646	1.110	22.200	22.200	0.00%
AM9	5850	HEAD	06/24/2025	21.1	19.4	0.05	1066	7782	1646	1.100	22.200	22.000	-0.90%

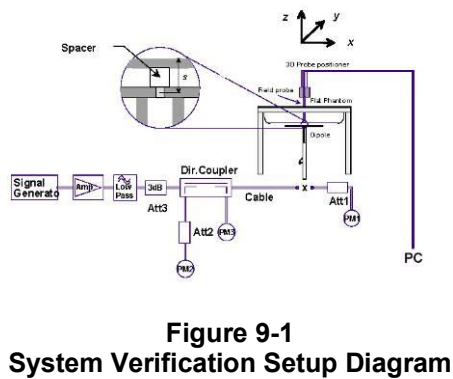


Figure 9-1
System Verification Setup Diagram

Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 LTE Band 71 Standalone Head SAR

Table 10-1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 71	20	QPSK	Aluminum	Sport	PGW06	1:1	0.05	680.50	133297	0.0	25.70	24.86	1	50	Front	10	0.005	1.213	0.006	0.004	
Head	LTE Band 71	20	QPSK	Aluminum	Sport	PGW06	1:1	0.08	680.50	133297	1.0	24.70	23.99	50	0	Front	10	0.003	1.178	0.004	0.003	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	PGW06	1:1	0.09	680.50	133297	0.0	25.70	24.86	1	50	Front	10	0.003	1.213	0.004	0.003	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	PGW06	1:1	0.01	680.50	133297	1.0	24.70	23.99	50	0	Front	10	0.002	1.178	0.002	0.001	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	PGW06	1:1	-0.04	680.50	133297	0.0	25.70	24.86	1	50	Front	10	0.006	1.213	0.007	0.004	A1
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	PGW06	1:1	0.01	680.50	133297	1.0	24.70	23.99	50	0	Front	10	0.005	1.178	0.006	0.004	
Head	LTE Band 71	20	QPSK	Titanium	Sport	X6G1Q	1:1	0.03	680.50	133297	0.0	25.70	24.86	1	50	Front	10	0.002	1.213	0.002	0.001	
Head	LTE Band 71	20	QPSK	Titanium	Sport	X6G1Q	1:1	0.05	680.50	133297	1.0	24.70	23.99	50	0	Front	10	0.002	1.178	0.002	0.001	
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	X6G1Q	1:1	0.03	680.50	133297	0.0	25.70	24.86	1	50	Front	10	0.003	1.213	0.004	0.003	
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	X6G1Q	1:1	-0.13	680.50	133297	1.0	24.70	23.99	50	0	Front	10	0.003	1.178	0.004	0.003	
Head	LTE Band 71	20	QPSK	Titanium	Metal Links	X6G1Q	1:1	0.04	680.50	133297	0.0	25.70	24.86	1	50	Front	10	0.006	1.213	0.007	0.004	
Head	LTE Band 71	20	QPSK	Titanium	Metal Links	X6G1Q	1:1	0.06	680.50	133297	1.0	24.70	23.99	50	0	Front	10	0.003	1.178	0.004	0.003	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head					
Spatial Peak																	1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

10.2 LTE Band 71 Standalone Extremity SAR

Table 10-2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	0Y743	1:1	0.01	680.50	133297	0.0	25.70	24.86	1	50	Back	0	0.062	1.213	0.075	0.019	
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	0Y743	1:1	0.01	680.50	133297	1.0	24.70	23.99	50	0	Back	0	0.065	1.178	0.053	0.013	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	0Y743	1:1	-0.01	680.50	133297	0.0	25.70	24.86	1	50	Back	0	0.132	1.213	0.160	0.040	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	0Y743	1:1	0.01	680.50	133297	1.0	24.70	23.99	50	0	Back	0	0.100	1.178	0.118	0.030	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	0Y743	1:1	-0.02	680.50	133297	0.0	25.70	24.86	1	50	Back	0	0.131	1.213	0.159	0.040	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	0Y743	1:1	-0.01	680.50	133297	1.0	24.70	23.99	50	0	Back	0	0.101	1.178	0.119	0.030	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	7C5HV	1:1	-0.06	680.50	133297	0.0	25.70	24.86	1	50	Back	0	0.046	1.213	0.056	0.014	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	7C5HV	1:1	0.04	680.50	133297	1.0	24.70	23.99	50	0	Back	0	0.036	1.178	0.042	0.011	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	7C5HV	1:1	0.04	680.50	133297	0.0	25.70	24.86	1	50	Back	0	0.087	1.213	0.106	0.027	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	7C5HV	1:1	0.00	680.50	133297	1.0	24.70	23.99	50	0	Back	0	0.067	1.178	0.079	0.020	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Links	7C5HV	1:1	-0.13	680.50	133297	0.0	25.70	24.86	1	50	Back	0	0.151	1.213	0.183	0.046	A2
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Links	7C5HV	1:1	-0.02	680.50	133297	1.0	24.70	23.99	50	0	Back	0	0.111	1.178	0.131	0.033	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																	4.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																	averaged over 10 grams					

10.3 LTE Band 12 Standalone Head SAR

Table 10-3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot
Head	LTE Band 12	10	QPSK	Aluminum	Sport	6H2HJ	1:1	0.08	707.50	23095	0.0	25.70	24.90	1	0	Front	10	0.004	1.202	0.005	0.003	A3
Head	LTE Band 12	10	QPSK	Aluminum	Sport	6H2HJ	1:1	0.05	707.50	23095	1.0	24.70	23.89	25	0	Front	10	0.002	1.205	0.002	0.001	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	6H2HJ	1:1	0.01	707.50	23095	0.0	25.70	24.90	1	0	Front	10	0.005	1.202	0.006	0.004	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	6H2HJ	1:1	0.04	707.50	23095	1.0	24.70	23.89	25	0	Front	10	0.003	1.205	0.004	0.003	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	6H2HJ	1:1	-0.01	707.50	23095	0.0	25.70	24.90	1	0	Front	10	0.003	1.202	0.004	0.003	
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	6H2HJ	1:1	0.06	707.50	23095	1.0	24.70	23.89	25	0	Front	10	0.002	1.205	0.002	0.001	
Head	LTE Band 12	10	QPSK	Titanium	Sport	D7VHJ	1:1	0.04	707.50	23095	0.0	25.70	24.90	1	0	Front	10	0.003	1.202	0.004	0.003	
Head	LTE Band 12	10	QPSK	Titanium	Sport	D7VHJ	1:1	0.09	707.50	23095	1.0	24.70	23.89	25	0	Front	10	0.002	1.205	0.002	0.001	
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	D7VHJ	1:1	0.10	707.50	23095	0.0	25.70	24.90	1	0	Front	10	0.003	1.202	0.004	0.003	
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	D7VHJ	1:1	0.09	707.50	23095	1.0	24.70	23.89	25	0	Front	10	0.003	1.205	0.004	0.003	
Head	LTE Band 12	10	QPSK	Titanium	Metal Links	D7VHJ	1:1	0.03	707.50	23095	0.0	25.70	24.90	1	0	Front	10	0.002	1.202	0.002	0.001	
Head	LTE Band 12	10	QPSK	Titanium	Metal Links	D7VHJ	1:1	0.17	707.50	23095	1.0	24.70	23.89	25	0	Front	10	0.002	1.205	0.002	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head				
Spatial Peak																		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 1 gram				

FCC ID: BCG-A3337

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Technical Manager

DUT Type:

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10.4 LTE Band 12 Standalone Extremity SAR

Table 10-4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	VC9M1	1:1	0.12	707.50	23095	0.0	25.70	24.90	1	0	Back	0	0.074	1.202	0.089	0.022	
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	VC9M1	1:1	0.01	707.50	23095	1.0	24.70	23.89	25	0	Back	0	0.060	1.205	0.072	0.018	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	VC9M1	1:1	0.03	707.50	23095	0.0	25.70	24.90	1	0	Back	0	0.122	1.202	0.147	0.037	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	VC9M1	1:1	-0.03	707.50	23095	1.0	24.70	23.89	25	0	Back	0	0.093	1.205	0.112	0.028	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	VC9M1	1:1	-0.02	707.50	23095	0.0	25.70	24.90	1	0	Back	0	0.219	1.202	0.263	0.066	A4
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	VC9M1	1:1	0.03	707.50	23095	1.0	24.70	23.89	25	0	Back	0	0.186	1.205	0.224	0.056	
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	N9L62	1:1	0.07	707.50	23095	0.0	25.70	24.90	1	0	Back	0	0.077	1.202	0.093	0.023	
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	N9L62	1:1	0.02	707.50	23095	1.0	24.70	23.89	25	0	Back	0	0.062	1.205	0.075	0.019	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	N9L62	1:1	-0.03	707.50	23095	0.0	25.70	24.90	1	0	Back	0	0.129	1.202	0.155	0.039	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	N9L62	1:1	0.19	707.50	23095	1.0	24.70	23.89	25	0	Back	0	0.076	1.205	0.092	0.023	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Links	N9L62	1:1	-0.06	707.50	23095	0.0	25.70	24.90	1	0	Back	0	0.198	1.202	0.238	0.060	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Links	N9L62	1:1	-0.03	707.50	23095	1.0	24.70	23.89	25	0	Back	0	0.157	1.205	0.189	0.047	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

10.5 LTE Band 13 Standalone Head SAR

Table 10-5

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 13	10	QPSK	Aluminum	Sport	7WL4K	1:1	-0.03	782.00	23230	0.0	25.70	24.88	1	0	Front	10	0.003	1.208	0.004	0.003	
Head	LTE Band 13	10	QPSK	Aluminum	Sport	7WL4K	1:1	-0.05	782.00	23230	1.0	24.70	23.78	25	12	Front	10	0.003	1.236	0.004	0.003	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	7WL4K	1:1	0.02	782.00	23230	0.0	25.70	24.88	1	0	Front	10	0.002	1.208	0.002	0.001	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	7WL4K	1:1	-0.06	782.00	23230	1.0	24.70	23.78	25	12	Front	10	0.002	1.236	0.002	0.001	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	7WL4K	1:1	0.02	782.00	23230	0.0	25.70	24.88	1	0	Front	10	0.004	1.208	0.005	0.003	A5
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	7WL4K	1:1	0.01	782.00	23230	1.0	24.70	23.78	25	12	Front	10	0.004	1.236	0.005	0.003	
Head	LTE Band 13	10	QPSK	Titanium	Sport	JXH9H	1:1	0.20	782.00	23230	0.0	25.70	24.88	1	0	Front	10	0.003	1.208	0.004	0.003	
Head	LTE Band 13	10	QPSK	Titanium	Sport	JXH9H	1:1	0.09	782.00	23230	1.0	24.70	23.78	25	12	Front	10	0.002	1.236	0.002	0.001	
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	JXH9H	1:1	0.07	782.00	23230	0.0	25.70	24.88	1	0	Front	10	0.002	1.208	0.002	0.001	
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	JXH9H	1:1	0.09	782.00	23230	1.0	24.70	23.78	25	12	Front	10	0.000	1.236	0.000	0.000	
Head	LTE Band 13	10	QPSK	Titanium	Metal Links	JXH9H	1:1	0.02	782.00	23230	0.0	25.70	24.88	1	0	Front	10	0.003	1.208	0.004	0.003	
Head	LTE Band 13	10	QPSK	Titanium	Metal Links	JXH9H	1:1	0.01	782.00	23230	1.0	24.70	23.78	25	12	Front	10	0.003	1.236	0.004	0.003	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram				

10.6 LTE Band 13 Standalone Extremity SAR

Table 10-6

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	MQDPL	1:1	-0.07	782.00	23230	0.0	25.70	24.88	1	0	Back	0	0.075	1.208	0.091	0.023	
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	MQDPL	1:1	0.01	782.00	23230	1.0	24.70	23.78	25	12	Back	0	0.056	1.236	0.069	0.017	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	MQDPL	1:1	-0.06	782.00	23230	0.0	25.70	24.88	1	0	Back	0	0.112	1.208	0.135	0.034	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	MQDPL	1:1	-0.02	782.00	23230	1.0	24.70	23.78	25	12	Back	0	0.086	1.236	0.106	0.027	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	MQDPL	1:1	0.03	782.00	23230	0.0	25.70	24.88	1	0	Back	0	0.164	1.208	0.198	0.050	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	MQDPL	1:1	0.01	782.00	23230	1.0	24.70	23.78	25	12	Back	0	0.127	1.236	0.157	0.039	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	9DLVL	1:1	-0.07	782.00	23230	0.0	25.70	24.88	1	0	Back	0	0.068	1.208	0.082	0.021	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	9DLVL	1:1	-0.06	782.00	23230	1.0	24.70	23.78	25	12	Back	0	0.052	1.236	0.064	0.016	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	9DLVL	1:1	-0.02	782.00	23230	0.0	25.70	24.88	1	0	Back	0	0.175	1.208	0.211	0.053	A6
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	9DLVL	1:1	0.01	782.00	23230	1.0	24.70	23.78	25	12	Back	0	0.133	1.236	0.164	0.041	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Links	9DLVL	1:1	-0.02	782.00	23230	0.0	25.70	24.88	1	0	Back	0	0.146	1.208	0.176	0.044	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Links	9DLVL	1:1	0.01	782.00	23230	1.0	24.70	23.78	25	12	Back	0	0.110	1.236	0.136	0.034	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

10.7 LTE Band 14 Standalone Head SAR

Table 10-7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 14	10	QPSK	Aluminum	Sport	MQDPL	1:1	0.02	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.003	1.205	0.004	0.003	
Head	LTE Band 14	10	QPSK	Aluminum	Sport	MQDPL	1:1	0.03	793.00	23330	1.0	24.70	23.87	25	0	Front	10	0.002	1.211	0.002	0.001	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	MQDPL	1:1	-0.15	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.004	1.205	0.005	0.003	A7
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	MQDPL	1:1	0.16	793.00	23330	1.0	24.70	23.87	25	0	Front	10	0.004	1.211	0.005	0.003	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	MQDPL	1:1	0.02	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.002	1.205	0.002	0.001	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	MQDPL	1:1	0.01	793.00	23330	1.0	24.70	23.87	25	0	Front	10	0.000	1.211	0.000	0.000	
Head	LTE Band 14	10	QPSK	Titanium	Sport	JXH9H	1:1	0.02	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.002	1.205	0.002	0.001	
Head	LTE Band 14	10	QPSK	Titanium	Sport	JXH9H	1:1	0.07	793.00	23330	1.0	24.70	23.87	25	0	Front	10	0.002	1.211	0.002	0.001	
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	JXH9H	1:1	-0.09	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.003	1.205	0.004	0.003	
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	JXH9H	1:1	0.08	793.00	23330	1.0	24.70	23.87	25	0	Front	10	0.002	1.211	0.002	0.001	
Head	LTE Band 14	10	QPSK	Titanium	Metal Links	JXH9H	1:1	0.06	793.00	23330	0.0	25.70	24.89	1	25	Front	10	0.003	1.205	0.004	0.003	
Head	LTE Band 14	10	QPSK	Titanium	Metal Links	JXH9H	1:1	-0.10	793.00	23330	1.0	24.70	23.87	25	0	Front	10	0.003	1.211	0.002	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram				

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10.8 LTE Band 14 Standalone Extremity SAR

Table 10-8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	6H2HJ	1:1	0.08	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.081	1.205	0.098	0.025	
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	6H2HJ	1:1	0.08	793.00	23330	1.0	24.70	23.87	25	0	Back	0	0.060	1.211	0.073	0.018	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	6H2HJ	1:1	0.00	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.105	1.205	0.127	0.032	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	6H2HJ	1:1	-0.01	793.00	23330	1.0	24.70	23.87	25	0	Back	0	0.085	1.211	0.103	0.026	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	6H2HJ	1:1	-0.02	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.167	1.205	0.201	0.050	A8
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	6H2HJ	1:1	0.00	793.00	23330	1.0	24.70	23.87	25	0	Back	0	0.135	1.211	0.163	0.041	
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	D7VHJ	1:1	0.05	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.070	1.205	0.084	0.021	
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	D7VHJ	1:1	0.03	793.00	23330	1.0	24.70	23.87	25	0	Back	0	0.057	1.211	0.069	0.017	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	D7VHJ	1:1	-0.01	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.133	1.205	0.160	0.040	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	D7VHJ	1:1	0.00	793.00	23330	1.0	24.70	23.87	25	0	Back	0	0.107	1.211	0.130	0.033	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Links	D7VHJ	1:1	-0.03	793.00	23330	0.0	25.70	24.89	1	25	Back	0	0.160	1.205	0.193	0.048	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Links	D7VHJ	1:1	0.01	793.00	23330	1.0	24.70	23.87	25	0	Back	0	0.130	1.211	0.157	0.039	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Extremity				
Spatial Peak																		4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 10 grams				

10.9 LTE Band 26 (Cell) Standalone Head SAR

Table 10-9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 26	10	QPSK	Aluminum	Sport	J9HF2	1:1	0.03	844.00	26990	0.0	25.70	24.78	1	25	Front	10	0.002	1.236	0.002	0.001	
Head	LTE Band 26	10	QPSK	Aluminum	Sport	J9HF2	1:1	0.07	844.00	26990	1.0	24.70	23.68	25	0	Front	10	0.001	1.265	0.001	0.001	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	J9HF2	1:1	0.07	844.00	26990	0.0	25.70	24.78	1	25	Front	10	0.001	1.236	0.001	0.001	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	J9HF2	1:1	0.06	844.00	26990	1.0	24.70	23.68	25	0	Front	10	0.001	1.265	0.001	0.001	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	J9HF2	1:1	0.05	844.00	26990	0.0	25.70	24.78	1	25	Front	10	0.001	1.236	0.001	0.001	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	J9HF2	1:1	0.01	844.00	26990	1.0	24.70	23.68	25	0	Front	10	0.001	1.265	0.001	0.001	
Head	LTE Band 26	10	QPSK	Titanium	Sport	QHR7F	1:1	0.02	844.00	26990	0.0	25.70	24.78	1	25	Front	10	0.003	1.236	0.004	0.003	
Head	LTE Band 26	10	QPSK	Titanium	Sport	QHR7F	1:1	0.05	844.00	26990	1.0	24.70	23.68	25	0	Front	10	0.002	1.265	0.003	0.002	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.05	844.00	26990	0.0	25.70	24.78	1	25	Front	10	0.002	1.236	0.002	0.001	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.01	844.00	26990	1.0	24.70	23.68	25	0	Front	10	0.000	1.265	0.000	0.000	
Head	LTE Band 26	10	QPSK	Titanium	Metal Links	QHR7F	1:1	0.02	844.00	26990	0.0	25.70	24.78	1	25	Front	10	0.003	1.236	0.004	0.003	A9
Head	LTE Band 26	10	QPSK	Titanium	Metal Links	QHR7F	1:1	0.09	844.00	26990	1.0	24.70	23.68	25	0	Front	10	0.003	1.265	0.004	0.003	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head				
Spatial Peak																		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 1 gram				

10.10 LTE Band 26 (Cell) Standalone Extremity SAR

Table 10-10

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	6H2HJ	1:1	0.00	844.00	26990	0.0	25.70	24.78	1	25	Back	0	0.071	1.236	0.088	0.022	
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	6H2HJ	1:1	-0.13	844.00	26990	1.0	24.70	23.68	25	0	Back	0	0.059	1.265	0.075	0.019	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	6H2HJ	1:1	0.03	844.00	26990	0.0	25.70	24.78	1	25	Back	0	0.318	1.236	0.393	0.098	A10
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	6H2HJ	1:1	-0.02	844.00	26990	1.0	24.70	23.68	25	0	Back	0	0.251	1.265	0.318	0.080	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	6H2HJ	1:1	-0.01	844.00	26990	0.0	25.70	24.78	1	25	Back	0	0.212	1.236	0.262	0.066	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	6H2HJ	1:1	-0.02	844.00	26990	1.0	24.70	23.68	25	0	Back	0	0.170	1.265	0.215	0.054	
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	N9L62	1:1	-0.06	844.00	26990	0.0	25.70	24.78	1	25	Back	0	0.072	1.236	0.089	0.022	
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	N9L62	1:1	-0.02	844.00	26990	1.0	24.70	23.68	25	0	Back	0	0.062	1.265	0.078	0.020	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	N9L62	1:1	0.05	844.00	26990	0.0	25.70	24.78	1	25	Back	0	0.112	1.236	0.138	0.035	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	N9L62	1:1	-0.11	844.00	26990	1.0	24.70	23.68	25	0	Back	0	0.085	1.265	0.108	0.027	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Links	N9L62	1:1	-0.04	844.00	26990	0.0	25.70	24.78	1	25	Back	0	0.187	1.236	0.231	0.058	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Links	N9L62	1:1	-0.04	844.00	26990	1.0	24.70	23.68	25	0	Back	0	0.151	1.265	0.191	0.048	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Extremity				
Spatial Peak																		4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 10 grams				

10.11 LTE Band 5 (Cell) Standalone Head SAR

Table 10-11

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 5	10	QPSK	Aluminum	Sport	0Y743	1:1	0.01	836.50	20525	0.0	25.70	24.57	1	49	Front	10	0.002	1.297	0.003	0.002	
Head	LTE Band 5	10	QPSK	Aluminum	Sport	0Y743	1:1	0.08	836.50	20525	1.0	24.70	23.76	25	25	Front	10	0.002	1.242	0.002	0.001	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	0Y743	1:1	0.01	836.50	20525	0.0	25.70	24.57	1	49	Front	10	0.001	1.297	0.001	0.001	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	0Y743	1:1	0.04	836.50	20525	1.0	24.70	23.76	25	25	Front	10	0.001	1.242	0.001	0.001	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	0Y743	1:1	0.02	836.50	20525	0.0	25.70	24.57	1	49	Front	10	0.000	1.297	0.000	0.000	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	0Y743	1:1	0.03	836.50	20525	1.0	24.70	23.76	25	25	Front	10	0.000	1.242	0.000	0.000	
Head	LTE Band 5	10	QPSK	Titanium	Sport	N9L62	1:1	0.01	836.50	20525	0.0	25.70	24.57	1	49	Front	10	0.003	1.297	0.004	0.003	A11
Head	LTE Band 5	10	QPSK	Titanium	Sport	N9L62	1:1	-0.11	836.50	20525	1.0	24.70	23.76	25	25	Front	10	0.002	1.242	0.002	0.001	
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	N9L62	1:1	0.01	836.50	20525	0.0	25.70	24.57	1	49	Front	10	0.000	1.297	0.000	0.000	
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	N9L62	1:1	0.09	836.50	20525	1.0	24.70	23.76	25	25	Front	10	0.000	1.242	0.000	0.000	
Head	LTE Band 5	10	QPSK	Titanium	Metal Links	N9L62	1:1	0.08	836.50	20525	0.0	25.70	24.57	1	49	Front	10	0.002	1.297	0.003	0.002	

10.12 LTE Band 5 (Cell) Standalone Extremity SAR

Table 10-12

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	Q7RV2	1:1	-0.02	836.50	20525	0.0	25.70	24.57	1	49	Back	0	0.085	1.297	0.110	0.028	
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	Q7RV2	1:1	-0.09	836.50	20525	1.0	24.70	23.76	25	25	Back	0	0.074	1.242	0.092	0.023	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	Q7RV2	1:1	-0.10	836.50	20525	0.0	25.70	24.57	1	49	Back	0	0.102	1.297	0.132	0.033	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	Q7RV2	1:1	-0.07	836.50	20525	1.0	24.70	23.76	25	25	Back	0	0.094	1.242	0.117	0.029	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	Q7RV2	1:1	-0.11	836.50	20525	0.0	25.70	24.57	1	49	Back	0	0.205	1.297	0.266	0.067	A12
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	Q7RV2	1:1	-0.07	836.50	20525	1.0	24.70	23.76	25	25	Back	0	0.159	1.242	0.197	0.049	
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	D7VHJ	1:1	0.05	836.50	20525	0.0	25.70	24.57	1	49	Back	0	0.071	1.297	0.092	0.023	
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	D7VHJ	1:1	-0.12	836.50	20525	1.0	24.70	23.76	25	25	Back	0	0.069	1.242	0.086	0.022	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	D7VHJ	1:1	-0.06	836.50	20525	0.0	25.70	24.57	1	49	Back	0	0.096	1.297	0.125	0.031	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	D7VHJ	1:1	-0.05	836.50	20525	1.0	24.70	23.76	25	25	Back	0	0.080	1.242	0.099	0.025	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Links	D7VHJ	1:1	-0.11	836.50	20525	0.0	25.70	24.57	1	49	Back	0	0.190	1.297	0.246	0.062	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Links	D7VHJ	1:1	-0.06	836.50	20525	1.0	24.70	23.76	25	25	Back	0	0.131	1.242	0.163	0.041	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Extremity				
Spatial Peak																		4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 10 grams				

10.13 LTE Band 66 (AWS) Standalone Head SAR

Table 10-13

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 66	20	QPSK	Aluminum	Sport	3439N	1:1	0.03	1720.00	132072	0.0	25.20	24.41	1	50	Front	10	0.211	1.199	0.253	0.158	
Head	LTE Band 66	20	QPSK	Aluminum	Sport	3439N	1:1	-0.04	1720.00	132072	1.0	24.20	23.31	50	0	Front	10	0.167	1.227	0.205	0.128	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	3439N	1:1	-0.11	1720.00	132072	0.0	25.20	24.41	1	50	Front	10	0.329	1.199	0.394	0.246	A13
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	3439N	1:1	0.05	1720.00	132072	1.0	24.20	23.31	50	0	Front	10	0.254	1.227	0.312	0.195	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	3439N	1:1	0.06	1720.00	132072	0.0	25.20	24.41	1	50	Front	10	0.207	1.199	0.248	0.155	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	3439N	1:1	-0.02	1720.00	132072	1.0	24.20	23.31	50	0	Front	10	0.159	1.227	0.195	0.122	
Head	LTE Band 66	20	QPSK	Titanium	Sport	SVIRX	1:1	-0.14	1720.00	132072	0.0	25.20	24.41	1	50	Front	10	0.189	1.199	0.227	0.142	
Head	LTE Band 66	20	QPSK	Titanium	Sport	SVIRX	1:1	0.00	1720.00	132072	1.0	24.20	23.31	50	0	Front	10	0.149	1.227	0.183	0.114	
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	SVIRX	1:1	0.17	1720.00	132072	0.0	25.20	24.41	1	50	Front	10	0.312	1.199	0.374	0.234	
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	SVIRX	1:1	0.05	1720.00	132072	1.0	24.20	23.31	50	0	Front	10	0.246	1.227	0.302	0.189	
Head	LTE Band 66	20	QPSK	Titanium	Metal Links	SVIRX	1:1	0.09	1720.00	132072	0.0	25.20	24.41	1	50	Front	10	0.203	1.199	0.243	0.152	
Head	LTE Band 66	20	QPSK	Titanium	Metal Links	SVIRX	1:1	0.00	1720.00	132072	1.0	24.20	23.31	50	0	Front	10	0.166	1.227	0.204	0.128	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head				
Spatial Peak																		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 1 gram				

10.14 LTE Band 66 (AWS) Standalone Extremity SAR

Table 10-14

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	57JF2	1:1	0.16	1720.00	132072	0.0	25.20	24.41	1	50	Back	0	0.089	1.199	0.107	0.027	A14
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	57JF2	1:1	0.03	1720.00	132072	1.0	24.20	23.31	50	0	Back	0	0.071	1.227	0.087	0.022	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	57JF2	1:1	-0.21	1720.00	132072	0.0	25.20	24.41	1	50	Back	0	0.071	1.199	0.085	0.021	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	57JF2	1:1	-0.07	1720.00	132072	1.0	24.20	23.31	50	0	Back	0	0.058	1.227	0.071	0.018	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	57JF2	1:1	0.05	1720.00	132072	0.0	25.20	24.41	1	50	Back	0	0.056	1.199	0.067	0.017	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	57JF2	1:1	-0.05	1720.00	132072	1.0	24.20	23.31	50	0	Back	0	0.045	1.227	0.055	0.014	
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	CK226	1:1	0.07	1720.00	132072	0.0	25.20	24.41	1	50	Back	0	0.053	1.199	0.064	0.016	
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	CK226	1:1	0.15	1720.00	132072	1.0	24.20	23.31	50	0	Back	0	0.043	1.227	0.053	0.013	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	CK226	1:1	0.00	1720.00	132072	0.0	25.20	24.41	1	50	Back	0	0.052	1.199	0.062	0.016	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	CK226	1:1	0.03	1720.00	132072	1.0	24.20	23.31	50	0	Back	0	0.036	1.227	0.044	0.011	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Links	CK226	1:1	0.21	1720.00	132072	0.0	25.20	24.41	1	50	Back	0	0.058	1.199	0.070	0.018	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Links	CK226	1:1	0.04	1720.00	132072	1.0	24.20	23.31	50	0	Back	0	0.051	1.227	0.063	0.016	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Extremity				
Spatial Peak																		4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 10 grams				

10.15 LTE Band 25 (PCS) Standalone Head SAR

Table 10-15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot
Head	LTE Band 25	20	QPSK	Aluminum	Sport	3439N	1:1	0.03	1860.00	26140	0.0	25.20	24.30	1	50	Front	10	0.158	1.230	0.194	0.121	A15
Head	LTE Band 25	20	QPSK	Aluminum	Sport	3439N	1:1	0.04	1860.00	26140	1.0	24.20	23.25	50	25	Front	10	0.127	1.245	0.158	0.099	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	3439N	1:1	0.00	1860.00	26140	0.0	25.20	24.30	1	50	Front	10	0.288	1.230	0.354	0.221	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	3439N	1:1	-0.01	1860.00	26140	1.0	24.20	23.25	50	25	Front	10	0.226	1.245	0.281	0.176	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	3439N	1:1	0.00	1860.00	26140	0.0	25.20	24.30	1	50	Front	10	0.246	1.230	0.303	0.189	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	3439N	1:1	0.01	1860.00	26140	1.0	24.20	23.25	50	25	Front	10	0.196	1.245	0.244	0.153	
Head	LTE Band 25	20	QPSK	Titanium	Sport	QH87F	1:1	0.03	1860.00	26140	0.0	25.20	24.30	1	50	Front	10	0.163	1.230	0.200	0.125	
Head	LTE Band 25	20	QPSK	Titanium	Sport	QH87F	1:1	0.03	1860.00	26140	1.0	24.20	23.25	50	25	Front	10	0.133	1.245	0.166	0.104	
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	QH87F	1:1	0.01	1860.00	26140	0.0	25.20	24.30	1	50	Front	10	0.263	1.230	0.323	0.202	
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	QH87F	1:1	0.00	1860.00	26140	1.0	24.20	23.25	50	25	Front	10	0.208	1.245	0.259	0.162	
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	QH87F	1:1	0.02	1860.00	26140	0.0	25.20	24.30	1	50	Front	10	0.256	1.230	0.315	0.197	
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	QH87F	1:1	-0.02	1860.00	26140	1.0	24.20	23.25	50	25	Front	10	0.200	1.245	0.249	0.156	
ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT																		Head				
Spatial Peak																		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 1g/m				

10.16 LTE Band 25 (PCS) Standalone Extremity SAR

Table 10-16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	3439N	1:1	0.05	1860.00	26140	0.0	25.20	24.30	1	50	Back	0	0.057	1.230	0.070	0.018	A16
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	3439N	1:1	0.04	1860.00	26140	1.0	24.20	23.25	50	25	Back	0	0.087	1.245	0.057	0.014	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	3439N	1:1	-0.03	1860.00	26140	0.0	25.20	24.30	1	50	Back	0	0.082	1.230	0.101	0.025	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	3439N	1:1	0.15	1860.00	26140	1.0	24.20	23.25	50	25	Back	0	0.066	1.245	0.082	0.021	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	3439N	1:1	-0.08	1860.00	26140	0.0	25.20	24.30	1	50	Back	0	0.054	1.230	0.066	0.017	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	3439N	1:1	-0.07	1860.00	26140	0.0	24.20	23.25	50	25	Back	0	0.045	1.245	0.056	0.014	
Extremity	LTE Band 25	20	QPSK	Titanium	Sport	74M75	1:1	0.08	1860.00	26140	0.0	25.20	24.30	1	50	Back	0	0.089	1.230	0.060	0.015	
Extremity	LTE Band 25	20	QPSK	Titanium	Sport	74M75	1:1	0.03	1860.00	26140	1.0	24.20	23.25	50	25	Back	0	0.072	1.245	0.049	0.012	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Loop	74M75	1:1	0.01	1860.00	26140	0.0	25.20	24.30	1	50	Back	0	0.085	1.230	0.105	0.026	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Loop	74M75	1:1	-0.05	1860.00	26140	1.0	24.20	23.25	50	25	Back	0	0.067	1.245	0.083	0.021	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Links	74M75	1:1	-0.14	1860.00	26140	0.0	25.20	24.30	1	50	Back	0	0.076	1.230	0.093	0.023	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Links	74M75	1:1	-0.12	1860.00	26140	1.0	24.20	23.25	50	25	Back	0	0.061	1.245	0.076	0.019	
ANSI/IEEE C63.1982 SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
Extremity																						
4.0 W/kg (mW/g)																			averaged over 10 grams			

10.17 LTE Band 7 Standalone Head SAR

Table 10-17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Site	RB Offset	Test Position	Spacing [mm]	Measured	Power	Reported	Exposure	Plot #
																		14 SAR [W/kg]	Scaling Factor	14 SAR [W/kg]	Rate (14 SAR)	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	SVF12	1:1	0.06	2510.00	20850	0.0	25.20	24.11	1	99	Front	10	0.793	1.285	1.019	0.637	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	SVF12	1:1	0.05	2535.00	21100	0.0	25.20	24.00	1	50	Front	10	0.867	1.318	1.143	0.714	A17
Head	LTE Band 7	20	QPSK	Aluminum	Sport	SVF12	1:1	0.10	2560.00	21350	0.0	25.20	24.08	1	50	Front	10	0.821	1.294	1.062	0.664	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	SVF12	1:1	0.05	2510.00	20850	1.0	24.20	23.20	1	99	Front	10	0.638	1.230	0.795	0.493	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	SVF12	1:1	0.10	2535.00	21100	1.0	24.20	23.20	50	0	Front	10	0.750	1.239	0.929	0.581	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	SVF12	1:1	0.03	2560.00	21350	1.0	24.20	23.28	50	25	Front	10	0.721	1.236	0.891	0.557	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	SVF12	1:1	0.05	2535.00	21100	1.0	24.20	23.25	100	0	Front	10	0.770	1.245	0.959	0.599	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	SVF12	1:1	0.07	2510.00	20850	0.0	24.11	24.11	1	99	Front	10	0.621	1.285	0.817	0.513	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	SVF12	1:1	0.03	2535.00	21100	0.0	25.20	24.00	1	50	Front	10	0.657	1.318	0.866	0.541	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	SVF12	1:1	0.02	2560.00	21350	0.0	25.20	24.08	1	50	Front	10	0.686	1.294	0.888	0.555	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	SVF12	1:1	0.08	2510.00	20850	1.0	24.20	23.20	50	25	Front	10	0.571	1.230	0.702	0.439	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	SVF12	1:1	0.11	2535.00	21100	1.0	24.20	23.25	100	0	Front	10	0.568	1.245	0.705	0.442	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	SVF12	1:1	0.03	2510.00	20850	0.0	25.20	24.11	1	99	Front	10	0.511	1.285	0.657	0.411	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	SVF12	1:1	0.05	2510.00	20850	1.0	24.20	23.30	50	25	Front	10	0.456	1.230	0.561	0.351	
Head	LTE Band 7	20	QPSK	Titanium	Sport	SV1RX	1:1	-0.07	2510.00	20850	0.0	25.20	24.11	1	99	Front	10	0.720	1.285	0.954	0.603	
Head	LTE Band 7	20	QPSK	Titanium	Sport	SV1RX	1:1	0.08	2535.00	21100	0.0	25.20	24.11	1	99	Front	10	0.740	1.318	0.978	0.616	
Head	LTE Band 7	20	QPSK	Titanium	Sport	SV1RX	1:1	0.04	2560.00	21350	0.0	25.20	24.08	1	50	Front	10	0.737	1.294	0.964	0.603	
Head	LTE Band 7	20	QPSK	Titanium	Sport	SV1RX	1:1	0.04	2515.00	21100	1.0	24.20	23.30	50	25	Front	10	0.665	1.230	0.818	0.511	
Head	LTE Band 7	20	QPSK	Titanium	Sport	SV1RX	1:1	0.02	2535.00	21100	1.0	24.20	23.27	50	0	Front	10	0.643	1.239	0.797	0.498	
Head	LTE Band 7	20	QPSK	Titanium	Sport	SV1RX	1:1	0.04	2560.00	21350	1.0	24.20	23.28	50	25	Front	10	0.639	1.236	0.790	0.494	
Head	LTE Band 7	20	QPSK	Titanium	Sport	SV1RX	1:1	0.04	2535.00	21100	1.0	24.20	23.25	100	0	Front	10	0.576	1.345	0.717	0.448	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loop	SV1RX	1:1	0.04	2510.00	20850	0.0	25.20	24.11	1	99	Front	10	0.437	1.285	0.562	0.351	
Head	LTE Band 7	20	QPSK	Titanium	Metal Loop	SV1RX	1:1	0.03	2510.00	20850	1.0	24.20	23.30	50	25	Front	10	0.372	1.230	0.458	0.286	
Head	LTE Band 7	20	QPSK	Titanium	Metal Links	SV1RX	1:1	0.08	2510.00	20850	0.0	25.20	24.11	1	99	Front	10	0.461	1.285	0.592	0.370	
Head	LTE Band 7	20	QPSK	Titanium	Metal Links	SV1RX	1:1	0.05	2510.00	20850	1.0	24.20	23.30	50	25	Front	10	0.408	1.230	0.502	0.314	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Head				
Spatial Peak																		1.6 W/kg (1mW/g)				
Uncontrolled Exposure / General Population																		averaged over 1.6mm				

10.18 LTE Band 7 Standalone Extremity SAR

Table 10-18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot
Extremity	LTE Band 7	20	QPSK	Aluminum	Sport	PQDPFF	1:1	-0.09	2510.00	20850	0.0	25.20	24.11	1	99	Back	0	0.306	1.285	0.393	0.098	
Extremity	LTE Band 7	20	QPSK	Aluminum	Sport	PQDPFF	1:1	-0.08	2510.00	20850	1.0	24.20	23.30	50	25	Back	0	0.226	1.230	0.278	0.070	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Loop	PQDPFF	1:1	-0.03	2510.00	20850	0.0	25.20	24.11	1	99	Back	0	0.341	1.285	0.265	0.066	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Loop	PQDPFF	1:1	0.00	2510.00	20850	1.0	24.20	23.30	50	25	Back	0	0.143	1.230	0.176	0.044	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Links	PQDPFF	1:1	-0.02	2510.00	20850	0.0	25.20	24.11	1	99	Back	0	0.332	1.285	0.427	0.107	
Extremity	LTE Band 7	20	QPSK	Aluminum	Metal Links	PQDPFF	1:1	0.04	2510.00	20850	1.0	24.20	23.30	50	25	Back	0	0.261	1.230	0.321	0.080	
Extremity	LTE Band 7	20	QPSK	Titanium	Sport	QD17Y	1:1	-0.02	2510.00	20850	0.0	25.20	24.11	1	99	Back	0	0.344	1.285	0.442	0.111	
Extremity	LTE Band 7	20	QPSK	Titanium	Sport	QD17Y	1:1	-0.01	2510.00	20850	1.0	24.20	23.30	50	25	Back	0	0.246	1.230	0.303	0.076	
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Loop	QD17Y	1:1	-0.07	2510.00	20850	0.0	25.20	24.11	1	99	Back	0	0.382	1.285	0.491	0.123	
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Loop	QD17Y	1:1	0.00	2510.00	20850	1.0	24.20	23.30	50	25	Back	0	0.294	1.230	0.362	0.091	
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Links	QD17Y	1:1	-0.04	2510.00	20850	0.0	25.20	24.11	1	99	Back	0	0.436	1.285	0.560	0.140	A18
Extremity	LTE Band 7	20	QPSK	Titanium	Metal Links	QD17Y	1:1	-0.15	2510.00	20850	1.0	24.20	23.30	50	25	Back	0	0.327	1.230	0.402	0.101	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																						
Spatial Peak																		Extremity				
Uncontrolled Exposure/General Population																		4.0 W/kg (int/g)				
																		averaged over 10 grams				

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10.19 LTE Band 41 Standalone Head SAR

Table 10-19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Delt [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	-0.04	2506.00	39750	0.0	25.20	24.08	1	50	Front	10	0.690	1.294	0.893	0.558	A19
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	0.12	2549.50	40185	0.0	25.20	24.13	1	99	Front	10	0.655	1.279	0.839	0.524	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	0.06	2593.00	40620	0.0	25.20	24.11	1	50	Front	10	0.650	1.285	0.835	0.522	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	-0.04	2636.50	41055	0.0	25.20	23.88	1	99	Front	10	0.663	1.355	0.898	0.561	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	0.04	2680.00	41490	0.0	25.20	24.08	1	50	Front	10	0.622	1.294	0.805	0.503	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	0.00	2506.00	39750	1.0	24.20	23.03	50	25	Front	10	0.486	1.309	0.636	0.398	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	0.05	2549.50	40185	1.0	24.20	23.17	50	25	Front	10	0.553	1.268	0.704	0.440	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	-0.10	2593.00	40620	1.0	24.20	23.13	50	25	Front	10	0.505	1.279	0.646	0.404	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	-0.01	2636.50	41055	1.0	24.20	22.91	50	25	Front	10	0.458	1.346	0.616	0.385	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	0.06	2680.00	41490	1.0	24.20	23.15	50	25	Front	10	0.485	1.274	0.618	0.386	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	PC21F	1:1.58	-0.01	2549.50	40185	1.0	24.20	23.15	100	0	Front	10	0.495	1.274	0.631	0.394	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	PC21F	1:1.58	0.09	2549.50	40185	0.0	25.20	24.13	1	99	Front	10	0.374	1.279	0.478	0.299	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	PC21F	1:1.58	0.12	2549.50	40185	1.0	24.20	23.17	50	25	Front	10	0.288	1.268	0.365	0.228	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	PC21F	1:1.58	0.06	2549.50	40185	0.0	25.20	24.13	1	99	Front	10	0.377	1.279	0.482	0.301	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	PC21F	1:1.58	0.06	2549.50	40185	1.0	24.20	23.17	50	25	Front	10	0.300	1.268	0.380	0.238	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	-0.03	2506.00	39750	0.0	25.20	24.08	1	50	Front	10	0.564	1.294	0.730	0.456	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	0.04	2549.50	40185	0.0	25.20	24.13	1	99	Front	10	0.600	1.279	0.767	0.479	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	-0.01	2593.00	40620	0.0	25.20	24.11	1	50	Front	10	0.582	1.285	0.748	0.468	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	-0.03	2636.50	41055	0.0	25.20	23.88	1	99	Front	10	0.573	1.355	0.776	0.485	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	0.05	2680.00	41490	0.0	25.20	24.08	1	50	Front	10	0.547	1.294	0.708	0.443	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	-0.06	2506.00	39750	1.0	24.20	23.03	50	25	Front	10	0.479	1.309	0.627	0.392	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	-0.12	2549.50	40185	1.0	24.20	23.17	50	25	Front	10	0.540	1.268	0.685	0.428	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	-0.10	2593.00	40620	1.0	24.20	23.13	50	25	Front	10	0.470	1.279	0.601	0.376	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	-0.01	2636.50	41055	1.0	24.20	22.91	50	25	Front	10	0.468	1.346	0.630	0.394	
Head	LTE Band 41	20	QPSK	Titanium	Sport	QHR7F	1:1.58	0.04	2680.00	41490	1.0	24.20	23.15	50	25	Front	10	0.432	1.274	0.550	0.344	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	QHR7F	1:1.58	0.04	2549.50	40185	0.0	25.20	24.13	1	99	Front	10	0.296	1.279	0.379	0.237	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	QHR7F	1:1.58	0.03	2549.50	40185	1.0	24.20	23.17	50	25	Front	10	0.198	1.268	0.251	0.157	
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	QHR7F	1:1.58	0.15	2549.50	40185	0.0	25.20	24.13	1	99	Front	10	0.257	1.279	0.380	0.238	
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	QHR7F	1:1.58	-0.07	2549.50	40185	1.0	24.20	23.17	50	25	Front	10	0.231	1.268	0.259	0.183	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Head				
Spatial Peak																		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 1 gram				

10.20 LTE Band 41 Standalone Extremity SAR

Table 10-20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Delt [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	LTE Band 41	20	QPSK	Aluminum	Sport	PQDFP	1:1.58	-0.08	2549.50	40185	0.0	25.20	24.13	1	99	Back	0	0.092	1.279	0.118	0.030	
Extremity	LTE Band 41	20	QPSK	Aluminum	Sport	PQDFP	1:1.58	-0.16	2549.50	40185	0.0	24.20	23.17	50	25	Back	0	0.062	1.268	0.079	0.020	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	PQDFP	1:1.58	-0.07	2549.50	40185	0.0	25.20	24.13	1	99	Back	0	0.280	1.279	0.358	0.090	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	PQDFP	1:1.58	-0.02	2549.50	40185	1.0	24.20	23.17	50	25	Back	0	0.210	1.268	0.266	0.067	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	PQDFP	1:1.58	0.03	2549.50	40185	0.0	25.20	24.13	1	99	Back	0	0.176	1.279	0.225	0.056	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	PQDFP	1:1.58	-0.03	2549.50	40185	1.0	24.20	23.17	50	25	Back	0	0.133	1.268	0.169	0.042	
Extremity	LTE Band 41	20	QPSK	Titanium	Sport	D7VHU	1:1.58	-0.13	2549.50	40185	0.0	25.20	24.13	1	99	Back	0	0.208	1.279	0.266	0.067	
Extremity	LTE Band 41	20	QPSK	Titanium	Sport	D7VHU	1:1.58	-0.11	2549.50	40185	1.0	24.20	23.17	50	25	Back	0	0.142	1.268	0.180	0.045	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Loop	D7VHU	1:1.58	0.02	2549.50	40185	0.0	25.20	24.13	1	99	Back	0	0.300	1.279	0.384	0.096	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Loop	D7VHU	1:1.58	-0.09	2549.50	40185	1.0	24.20	23.17	50	25	Back	0	0.228	1.268	0.289	0.072	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Links	D7VHU	1:1.58	0.07	2549.50	40185	0.0	25.20	24.13	1	99	Back	0	0.346	1.279	0.443	0.111	A20
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Links	D7VHU	1:1.58	-0.03	2549.50	40185	1.0	24.20	23.17	50	25	Back	0	0.260	1.268	0.330	0.083	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Extremity				
Spatial Peak																		4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 10 grams				

10.21 NR Band n71 Standalone Head SAR

Table 10-21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Delt [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n71	20	QPSK	Aluminum	Sport	7WL4K	1:1	0.06	680.50	136100	DTT-s-OFDM	0.0	25.70	24.25	1	1	Front	10	0.001	1.396	0.001	0.001	
Head	NR Band n71	20	QPSK	Aluminum	Sport	7WL4C	1:1	0.01	680.50	136100	DTT-s-OFDM	0.0	25.70	24.11	50	28	Front	10	0.006	1.442	0.009	0.006	
Head	NR Band n71	20	QPSK	Aluminum	Sport	7WL4K	1:1	0.01	680.50	136100	CP-OFDM	1.5	24.20	23.22	1	1	Front	10	0.003	1.253	0.004	0.003	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	7WL4K	1:1	0.05	680.50	136100	DTT-s-OFDM	0.0	25.70	24.25	1	1	Front	10	0.002	1.396	0.003	0.002	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	7WL4C	1:1	0.03	680.50	136100	DTT-s-OFDM	0.0	25.70	24.11	50	28	Front	10	0.002	1.396	0.003	0.002	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	7WL4K	1:1	0.01	680.50	136100	DTT-s-OFDM	0.0	25.70	24.25	1	1	Front	10	0.004	1.396	0.006	0.004	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	7WL4K	1:1	0.01	680.50	136100	DTT-s-OFDM	0.0	25.70	24.11	50	28	Front	10	0.003	1.442	0.004	0.003	
Head	NR Band n71	20	QPSK	Titanium	Sport	JXHXH	1:1	0.07	680.50	136100	DTT-s-OFDM	0.0	25.70	24.25	1	1	Front	10	0.007	1.396	0.010	0.006	A21
Head	NR Band n71	20	QPSK	Titanium	Sport	JXHXH	1:1	0.07	680.50	136100	DTT-s-OFDM	0.0	25.70	24.11	50	28	Front	10	0.007	1.442	0.010	0.006	
Head	NR Band n71	20	QPSK	Titanium	Sport	JXHXH	1:1	0.07	680.50	136100	CP-OFDM	1.5	24.20	23.22	1	1	Front	10	0.006	1.253	0.008	0.005	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	JXHXH	1:1	0.08	680.50	136100	DTT-s-OFDM	0.0	25.70	24.25	1	1	Front	10	0.002	1.396	0.003	0.002	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	JXHXH	1:1	0.09	680.50	136100	DTT-s-OFDM	0.0	25.70	24.11	50	28	Front	10	0.003	1.442	0.003	0.003	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	JXHXH	1:1	0.01	680.50	136100	DTT-s-OFDM	0.0	25.70	24.25	1	1	Front	10	0.002	1.396	0.003	0.002	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	JXHXH	1:1	0.01	680.50	136100	DTT-s-OFDM	0.0	25.70	24.11	50	28	Front	10	0.002	1.442	0.003	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Head				
Spatial Peak																			1.6 W/kg [mW/g]				
Uncontrolled Exposure/General Population																			averaged over 1 gram				

10.22 NR Band n71 Standalone Extremity SAR

Table 10-22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	PGWQ6	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.70	24.25	1	1	Back	0	0.059	1.396	0.082	0.021	
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	PGWQ6	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	50	28	Back	0	0.062	1.442	0.089	0.022	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	PGWQ6	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	25.70	24.25	1	1	Back	0	0.096	1.396	0.134	0.034	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	PGWQ6	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	50	28	Back	0	0.123	1.442	0.177	0.044	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	PGWQ6	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.25	1	1	Back	0	0.126	1.396	0.176	0.044	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	PGWQ6	1:1	-0.11	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	50	28	Back	0	0.154	1.442	0.222	0.056	A22
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	PGWQ6	1:1	-0.03	680.50	136100	CP-OFDM	1.5	24.20	23.22	1	1	Back	0	0.094	1.253	0.118	0.030	
Extremity	NR Band n71	20	QPSK	Titanium	Sport	CK226	1:1	-0.08	680.50	136100	DFT-s-OFDM	0.0	25.70	24.25	1	1	Back	0	0.041	1.396	0.057	0.014	
Extremity	NR Band n71	20	QPSK	Titanium	Sport	CK226	1:1	-0.15	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	50	28	Back	0	0.046	1.442	0.066	0.017	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	CK226	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	25.70	24.25	1	1	Back	0	0.058	1.396	0.081	0.020	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	CK226	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	50	28	Back	0	0.078	1.442	0.112	0.028	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	CK226	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.70	24.25	1	1	Back	0	0.094	1.396	0.131	0.033	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	CK226	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	25.70	24.11	50	28	Back	0	0.109	1.442	0.157	0.039	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	CK226	1:1	0.02	680.50	136100	CP-OFDM	1.5	24.20	23.22	1	1	Back	0	0.060	1.253	0.075	0.019	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Extremity				
Spatial Peak																			4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population																			averaged over 10 grams				

10.23 NR Band n12 Standalone Head SAR

Table 10-23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n12	15	QPSK	Aluminum	Sport	VC9M1	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Front	10	0.003	1.172	0.004	0.003	
Head	NR Band n12	15	QPSK	Aluminum	Sport	VC9M1	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Front	10	0.003	1.191	0.004	0.003	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	VC9M1	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Front	10	0.002	1.172	0.002	0.001	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	VC9M1	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Front	10	0.002	1.191	0.002	0.001	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	VC9M1	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Front	10	0.004	1.172	0.005	0.003	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	VC9M1	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Front	10	0.006	1.191	0.007	0.004	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	VC9M1	1:1	0.09	707.50	141500	CP-OFDM	1.5	24.20	22.96	1	1	Front	10	0.004	1.330	0.005	0.003	
Head	NR Band n12	15	QPSK	Titanium	Sport	JXHXH	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Front	10	0.002	1.172	0.002	0.001	
Head	NR Band n12	15	QPSK	Titanium	Sport	JXHXH	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Front	10	0.003	1.191	0.004	0.003	
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	JXHXH	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Front	10	0.002	1.172	0.002	0.001	
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	JXHXH	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Front	10	0.002	1.191	0.002	0.001	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	JXHXH	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Front	10	0.009	1.172	0.011	0.007	A23
Head	NR Band n12	15	QPSK	Titanium	Metal Links	JXHXH	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Front	10	0.007	1.191	0.008	0.005	
Head	NR Band n12	10	QPSK	Titanium	Metal Links	JXHXH	1:1	0.01	707.50	141500	CP-OFDM	1.5	24.20	22.96	1	1	Front	10	0.006	1.330	0.008	0.005	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Head 1.6 W/kg (mW/g) averaged over 1 gram				
Spatial Peak Uncontrolled Exposure/General Population																							

10.24 NR Band n12 Standalone Extremity SAR

Table 10-24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	VC9M1	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Back	0	0.063	1.172	0.074	0.019	
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	VC9M1	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Back	0	0.073	1.191	0.087	0.022	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loop	VC9M1	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Back	0	0.099	1.172	0.116	0.025	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loop	VC9M1	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Back	0	0.099	1.191	0.118	0.030	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	VC9M1	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Back	0	0.130	1.172	0.152	0.038	A24
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	VC9M1	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Back	0	0.129	1.191	0.154	0.039	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	VC9M1	1:1	-0.03	707.50	141500	CP-OFDM	1.5	24.20	22.96	1	1	Back	0	0.100	1.330	0.133	0.033	
Extremity	NR Band n12	15	QPSK	Titanium	Sport	ZY534	1:1	-0.12	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Back	0	0.054	1.172	0.063	0.016	
Extremity	NR Band n12	15	QPSK	Titanium	Sport	ZY534	1:1	-0.10	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Back	0	0.057	1.191	0.068	0.017	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	ZY534	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Back	0	0.109	1.172	0.128	0.032	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	ZY534	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Back	0	0.083	1.191	0.099	0.025	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	ZY534	1:1	0.02	707.50	141500	CP-OFDM	1.5	24.20	22.96	1	1	Back	0	0.079	1.330	0.105	0.026	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	ZY534	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	25.70	25.01	1	1	Back	0	0.102	1.172	0.120	0.030	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	ZY534	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.94	36	22	Back	0	0.106	1.191	0.126	0.032	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams				
Spatial Peak Uncontrolled Exposure/General Population																							

10.25 NR Band n14 Standalone Head SAR

Table 10-25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n14	10	QPSK	Aluminum	Sport	MQDPL	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Front	10	0.002	1.211	0.002	0.001	
Head	NR Band n14	10	QPSK	Aluminum	Sport	MQDPL	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Front	10	0.002	1.202	0.002	0.001	
Head	NR Band n14	10	QPSK	Aluminum	Metal Loop	MQDPL	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Front	10	0.003	1.211	0.004	0.001	
Head	NR Band n14	10	QPSK	Aluminum	Metal Loop	MQDPL	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Front	10	0.003	1.202	0.004	0.003	
Head	NR Band n14	10	QPSK	Aluminum	Metal Loop	MQDPL	1:1	0.06	793.00	158600	CP-OFDM	1.5	24.20	23.02	1	1	Front	10	0.002	1.312	0.003	0.002	
Head	NR Band n14	10	QPSK	Aluminum	Metal Links	MQDPL	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Front	10	0.003	1.211	0.004	0.003	
Head	NR Band n14	10	QPSK	Aluminum	Metal Links	MQDPL	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Front	10	0.003	1.202	0.004	0.003	
Head	NR Band n14	10	QPSK	Titanium	Sport	JXH0X	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Front	10	0.004	1.211	0.005	0.003	A25
Head	NR Band n14	10	QPSK	Titanium	Sport	JXH0X	1:1	-1.12	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Front	10	0.004	1.202	0.005	0.003	
Head	NR Band n14	10	QPSK	Titanium	Sport	JXH0X	1:1	0.11	793.00	158600	CP-OFDM	1.5	24.20	23.02	1	1	Front	10	0.001	1.312	0.001	0.001	
Head	NR Band n14	10	QPSK	Titanium	Metal Loop	JXH0X	1:1	0.16	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Front	10	0.003	1.211	0.004	0.001	
Head	NR Band n14	10	QPSK	Titanium	Metal Loop	JXH0X	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Front	10	0.003	1.202	0.004	0.003	
Head	NR Band n14	10	QPSK	Titanium	Metal Links	JXH0X	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Front	10	0.002	1.211	0.002	0.001	
Head	NR Band n14	10	QPSK	Titanium	Metal Links	JXH0X	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Front	10	0.003	1.202	0.002	0.001	
ANSI/IEEE CS-1.1592-1 SAFETY LIMIT																							
Uncontrolled Exposure/General Population																							
1.6 W/kg (mW/g) Head averaged over 1 gram																							

10.26 NR Band n14 Standalone Extremity SAR

Table 10-26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n14	10	QPSK	Aluminum	Sport	MOQPL	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Back	0	0.063	1.211	0.074	0.019	
Extremity	NR Band n14	10	QPSK	Aluminum	Sport	MOQPL	1:1	-0.17	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Back	0	0.064	1.202	0.077	0.019	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Loop	MOQPL	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Back	0	0.121	1.211	0.147	0.037	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Loop	MOQPL	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Back	0	0.120	1.202	0.144	0.036	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Links	MOQPL	1:1	-0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Back	0	0.128	1.211	0.155	0.039	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Links	MOQPL	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Back	0	0.123	1.202	0.148	0.037	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Links	MOQPL	1:1	-0.04	793.00	158600	CP-OFDM	1.5	24.20	23.02	1	1	Back	0	0.100	1.312	0.131	0.033	
Extremity	NR Band n14	10	QPSK	Titanium	Sport	QHR7F	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Back	0	0.053	1.211	0.064	0.016	
Extremity	NR Band n14	10	QPSK	Titanium	Sport	QHR7F	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Back	0	0.051	1.202	0.061	0.015	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Back	0	0.103	1.211	0.125	0.031	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Back	0	0.095	1.202	0.114	0.029	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Links	QHR7F	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.87	1	1	Back	0	0.130	1.211	0.157	0.039	A26
Extremity	NR Band n14	10	QPSK	Titanium	Metal Links	QHR7F	1:1	-0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.90	25	14	Back	0	0.115	1.202	0.138	0.035	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Links	QHR7F	1:1	0.10	793.00	158600	CP-OFDM	1.5	24.20	23.02	1	1	Back	0	0.102	1.312	0.134	0.034	
ANSI/IEEE C55.1.1992 - SAFETY LIMIT																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams				
Spatial Peak Uncontrolled Exposure/General Population																							

10.27 NR Band n26 Standalone Head SAR

Table 10-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n26	20	QPSK	Aluminum	Sport	0Y743	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Front	10	0.002	1.429	0.003	0.002	A27
Head	NR Band n26	20	QPSK	Aluminum	Sport	0Y743	1:1	-0.16	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Front	10	0.002	1.462	0.003	0.002	
Head	NR Band n26	20	QPSK	Aluminum	Sport	0Y743	1:1	0.09	831.50	166300	CP-OFDM	1.5	24.20	23.25	1	1	Front	10	0.002	1.245	0.002	0.001	
Head	NR Band n26	20	QPSK	Aluminum	Metal Loop	0Y743	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Front	10	0.001	1.429	0.001	0.001	
Head	NR Band n26	20	QPSK	Aluminum	Metal Loop	0Y743	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Front	10	0.001	1.462	0.001	0.001	
Head	NR Band n26	20	QPSK	Aluminum	Metal Links	0Y743	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Front	10	0.000	1.429	0.000	0.000	
Head	NR Band n26	20	QPSK	Aluminum	Metal Links	0Y743	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Front	10	0.000	1.462	0.000	0.000	
Head	NR Band n26	20	QPSK	Titanium	Sport	QHR7F	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Front	10	0.002	1.429	0.003	0.002	
Head	NR Band n26	20	QPSK	Titanium	Sport	QHR7F	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Front	10	0.002	1.462	0.003	0.002	
Head	NR Band n26	20	QPSK	Titanium	Sport	QHR7F	1:1	0.09	831.50	166300	CP-OFDM	1.5	24.20	23.25	1	1	Front	10	0.001	1.245	0.001	0.001	
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Front	10	0.001	1.429	0.001	0.001	
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.21	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Front	10	0.001	1.462	0.001	0.001	
Head	NR Band n26	20	QPSK	Titanium	Metal Links	QHR7F	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Front	10	0.000	1.429	0.000	0.000	
Head	NR Band n26	20	QPSK	Titanium	Metal Links	QHR7F	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Front	10	0.000	1.462	0.000	0.000	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Head 1.6 W/kg (mW/g) averaged over 1 gram				
Spatial Peak Uncontrolled Exposure/General Population																							

10.28 NR Band n26 Standalone Extremity SAR

Table 10-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n26	20	QPSK	Aluminum	Sport	VC9M1	1:1	-0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Back	0	0.071	1.429	0.101	0.025	
Extremity	NR Band n26	20	QPSK	Aluminum	Sport	VC9M1	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Back	0	0.074	1.462	0.108	0.027	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	VC9M1	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Back	0	0.191	1.429	0.273	0.068	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	VC9M1	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Back	0	0.136	1.462	0.287	0.072	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Links	VC9M1	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Back	0	0.209	1.429	0.299	0.075	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Links	VC9M1	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Back	0	0.112	1.462	0.310	0.078	A28
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Links	VC9M1	1:1	0.06	831.50	166300	CP-OFDM	1.5	24.20	23.25	1	1	Back	0	0.126	1.245	0.157	0.039	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	9DLVL	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Back	0	0.064	1.429	0.091	0.023	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	9DLVL	1:1	-0.15	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Back	0	0.069	1.462	0.101	0.025	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	9DLVL	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Back	0	0.113	1.429	0.190	0.048	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	9DLVL	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Back	0	0.154	1.462	0.225	0.056	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	9DLVL	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.15	1	53	Back	0	0.182	1.429	0.260	0.065	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	9DLVL	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.05	50	28	Back	0	0.166	1.462	0.243	0.061	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	9DLVL	1:1	0.06	831.50	166300	CP-OFDM	1.5	24.20	23.25	1	1	Back	0	0.111	1.245	0.138	0.035	
ANSI/IEEE C55.1.1992 - SAFETY LIMIT																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams				
Spatial Peak Uncontrolled Exposure/General Population																							

10.29 NR Band n5 Standalone Head SAR

Table 10-29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n5	20	QPSK	Aluminum	Sport	0Y743	1:1	0.20	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Front	10	0.003	1.253	0.004	0.003	
Head	NR Band n5	20	QPSK	Aluminum	Sport	0Y743	1:1	-0.19	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Front	10	0.004	1.219	0.005	0.003	A29
Head	NR Band n5	20	QPSK	Aluminum	Sport	0Y743	1:1	0.05	836.50	167300	CP-OFDM	1.5	24.20	23.40	1	1	Front	10	0.001	1.202	0.001	0.001	
Head	NR Band n5	20	QPSK	Aluminum	Metal Loop	0Y743	1:1	0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Front	10	0.002	1.253	0.003	0.002	
Head	NR Band n5	20	QPSK	Aluminum	Metal Loop	0Y743	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Front	10	0.002	1.219	0.002	0.001	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	0Y743	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Front	10	0.001	1.253	0.001	0.001	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	0Y743	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Front	10	0.001	1.219	0.001	0.001	
Head	NR Band n5	20	QPSK	Titanium	Sport	0Y777	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Front	10	0.001	1.253	0.001	0.001	
Head	NR Band n5	20	QPSK	Titanium	Sport	0Y777	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	28	Front	10	0.002	1.219	0.002	0.001		
Head	NR Band n5	20	QPSK	Titanium	Sport	0Y777	1:1	0.04	836.50	167300	CP-OFDM	1.5	24.20	23.40	1	1	Front	10	0.001	1.202	0.001	0.001	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	0Y777	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Front	10	0.001	1.253	0.001	0.001	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	0Y777	1:1	0.09	836.50	167300	DFT-s-OFDM	0.0	24.86	24.86	50	28	Front	10	0.002	1.219	0.002	0.001	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	0Y777	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Front	10	0.001	1.243	0.001	0.001	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	0Y777	1:1	0.08	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Front	10	0.001	1.219	0.001	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				Head			
Uncontrolled Exposure/General Population																				Spatial Peak 1.6 W/kg [mW/g] averaged over 1 gram			

10.30 NR Band n5 Standalone Extremity SAR

Table 10-30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n5	20	QPSK	Aluminum	Sport	6H2H1	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Back	0	0.075	1.253	0.094	0.024	
Extremity	NR Band n5	20	QPSK	Aluminum	Sport	6H2H1	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Back	0	0.075	1.219	0.091	0.023	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Loop	6H2H1	1:1	0.11	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Back	0	0.107	1.253	0.134	0.034	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Loop	6H2H1	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Back	0	0.113	1.219	0.138	0.035	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	6H2H1	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Back	0	0.157	1.253	0.197	0.049	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	6H2H1	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Back	0	0.173	1.219	0.211	0.051	A30
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	6H2H1	1:1	-0.12	836.50	167300	CP-OFDM	1.5	24.20	23.40	1	1	Back	0	0.118	1.202	0.142	0.036	
Extremity	NR Band n5	20	QPSK	Titanium	Sport	QHR7F	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Back	0	0.068	1.253	0.085	0.021	
Extremity	NR Band n5	20	QPSK	Titanium	Sport	QHR7F	1:1	-0.18	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Back	0	0.065	1.219	0.079	0.020	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Back	0	0.096	1.253	0.120	0.030	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.08	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Back	0	0.105	1.219	0.128	0.032	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	QHR7F	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	25.70	24.72	1	1	Back	0	0.152	1.253	0.190	0.048	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	QHR7F	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.84	50	28	Back	0	0.161	1.219	0.196	0.049	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	QHR7F	1:1	-0.10	836.50	167300	CP-OFDM	1.5	24.20	23.40	1	1	Back	0	0.085	1.202	0.102	0.026	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Extremity					
Spatial Peak																		4.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 10 grams					

10.31 NR Band n66 Standalone Head SAR

Table 10-31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n66	20	QPSK	Aluminum	Sport	3439N	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Front	10	0.188	1.172	0.220	0.138	
Head	NR Band n66	20	QPSK	Aluminum	Sport	3439N	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.183	1.194	0.219	0.137	
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	3439N	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Front	10	0.149	1.172	0.174	0.234	A31
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	3439N	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.289	1.194	0.345	0.216	
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	3439N	1:1	0.02	1745.00	349000	CP-OFDM	1.5	23.70	23.04	1	1	Front	10	0.150	1.164	0.175	0.109	
Head	NR Band n66	20	QPSK	Aluminum	Metal Links	3439N	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Front	10	0.243	1.172	0.285	0.178	
Head	NR Band n66	20	QPSK	Aluminum	Metal Links	3439N	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.264	1.194	0.344	0.153	
Head	NR Band n66	20	QPSK	Titanium	Sport	SVXRJ	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Front	10	0.177	1.172	0.207	0.129	
Head	NR Band n66	20	QPSK	Titanium	Sport	SVXRJ	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.163	1.194	0.195	0.122	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	SVXRJ	1:1	0.19	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Front	10	0.257	1.172	0.301	0.188	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	SVXRJ	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.230	1.194	0.275	0.172	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	SVXRJ	1:1	-0.08	1745.00	349000	CP-OFDM	1.5	23.70	23.04	1	1	Front	10	0.200	1.164	0.233	0.146	
Head	NR Band n66	20	QPSK	Titanium	Metal Links	SVXRJ	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Front	10	0.214	1.172	0.251	0.157	
Head	NR Band n66	20	QPSK	Titanium	Metal Links	SVXRJ	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.179	1.194	0.214	0.134	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Head 1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																							

10.32 NR Band n66 Standalone Extremity SAR

Table 10-32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n66	20	QPSK	Aluminum	Sport	H7X01	1:1	-0.15	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Back	0	0.083	1.172	0.097	0.024	
Extremity	NR Band n66	20	QPSK	Aluminum	Sport	H7X01	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.087	1.194	0.104	0.026	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Loop	H7X01	1:1	-0.30	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Back	0	0.087	1.172	0.102	0.026	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Loop	H7X01	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.098	1.194	0.118	0.030	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	H7X01	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Back	0	0.103	1.172	0.121	0.030	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	H7X01	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.105	1.194	0.125	0.031	A32
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	H7X01	1:1	0.05	1745.00	349000	CP-OFDM	1.5	23.70	23.04	1	1	Back	0	0.050	1.164	0.058	0.015	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	QHR7F	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Back	0	0.056	1.172	0.066	0.017	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	QHR7F	1:1	0.12	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.059	1.194	0.070	0.018	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Back	0	0.098	1.172	0.115	0.029	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.097	1.194	0.116	0.029	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	-0.08	1745.00	349000	CP-OFDM	1.5	23.70	23.04	1	1	Back	0	0.064	1.164	0.074	0.019	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Links	QHR7F	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.51	1	1	Back	0	0.079	1.172	0.093	0.023	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Links	QHR7F	1:1	-0.20	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.090	1.194	0.107	0.027	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams					

10.33 NR Band n25 Standalone Head SAR

Table 10-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Head	NR Band n25	20	QPSK	Aluminum	Sport	6H2H1	1:1	0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Front	10	0.193	1.315	0.254	0.159		
Head	NR Band n25	20	QPSK	Aluminum	Sport	6H2H1	1:1	-0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Front	10	0.198	1.327	0.263	0.164		
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	6H2H1	1:1	0.07	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Front	10	0.268	1.315	0.352	0.220		
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	6H2H1	1:1	-0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Front	10	0.265	1.327	0.360	0.238		
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	6H2H1	1:1	-0.04	1860.00	372000	CP-OFDM	1.5	23.70	22.52	1	1	Front	10	0.168	1.312	0.220	0.138		
Head	NR Band n25	20	QPSK	Aluminum	Metal Links	6H2H1	1:1	-0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Front	10	0.252	1.315	0.331	0.207		
Head	NR Band n25	20	QPSK	Aluminum	Metal Links	6H2H1	1:1	0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Front	10	0.275	1.327	0.365	0.228		
Head	NR Band n25	20	QPSK	Titanium	Sport	QHR7F	1:1	0.08	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Front	10	0.182	1.315	0.220	0.138		
Head	NR Band n25	20	QPSK	Titanium	Sport	QHR7F	1:1	0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Front	10	0.199	1.327	0.264	0.165		
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.06	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Front	10	0.300	1.315	0.395	0.247		
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	-0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Front	10	0.309	1.327	0.410	0.256	A33	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	QHR7F	1:1	0.01	1860.00	372000	CP-OFDM	1.5	23.70	22.52	1	1	Front	10	0.178	1.312	0.224	0.146		
Head	NR Band n25	20	QPSK	Titanium	Metal Links	QHR7F	1:1	0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Front	10	0.267	1.315	0.391	0.219		
Head	NR Band n25	20	QPSK	Titanium	Metal Links	QHR7F	1:1	0.01	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Front	10	0.274	1.327	0.364	0.228		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Head					
Spatial Peak																			1.6 W/kg [mW/g]					
Uncontrolled Exposure/General Population																			averaged over 1 gram					

10.34 NR Band n25 Standalone Extremity SAR

Table 10-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n25	20	QPSK	Aluminum	Sport	6H2H1	1:1	-0.04	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Back	0	0.058	1.315	0.076	0.019	
Extremity	NR Band n25	20	QPSK	Aluminum	Sport	6H2H1	1:1	-0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.060	1.327	0.080	0.020	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	6H2H1	1:1	-0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Back	0	0.063	1.315	0.122	0.031	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	6H2H1	1:1	-0.12	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.101	1.327	0.134	0.034	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	6H2H1	1:1	-0.04	1860.00	372000	CP-OFDM	1.5	23.70	22.52	1	1	Back	0	0.060	1.312	0.079	0.020	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	6H2H1	1:1	0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Back	0	0.093	1.315	0.122	0.031	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	6H2H1	1:1	-0.10	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.094	1.327	0.125	0.031	
Extremity	NR Band n25	20	QPSK	Titanium	Sport	R0C3X	1:1	-0.02	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Back	0	0.051	1.315	0.067	0.017	
Extremity	NR Band n25	20	QPSK	Titanium	Sport	R0C3X	1:1	-0.10	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.052	1.327	0.069	0.017	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	R0C3X	1:1	0.00	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Back	0	0.101	1.315	0.133	0.033	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	R0C3X	1:1	0.08	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.119	1.327	0.158	0.040	A34
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	R0C3X	1:1	-0.19	1860.00	372000	CP-OFDM	1.5	23.70	22.52	1	1	Back	0	0.058	1.312	0.076	0.019	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Links	R0C3X	1:1	-0.13	1860.00	372000	DFT-s-OFDM	0.0	25.20	24.01	1	53	Back	0	0.087	1.315	0.128	0.022	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Links	R0C3X	1:1	0.03	1860.00	372000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.063	1.327	0.084	0.021	
ANSI/IEEE C55.1.1992 - SAFETY LIMIT																		Extremity					
Spatial Peak																		4.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 10 grams					

10.35 NR Band n7 Standalone Head SAR

Table 10-35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	0.00	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Front	10	0.870	1.199	1.043	0.652	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.26	1	1	Front	10	0.752	1.213	0.912	0.570	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	0.01	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.37	1	53	Front	10	0.766	1.245	0.954	0.596	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	0.10	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Front	10	0.871	1.211	1.055	0.659	A35
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	0.10	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Front	10	0.761	1.211	0.922	0.576	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.27	50	28	Front	10	0.778	1.239	0.964	0.603	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	0.04	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.26	50	28	Front	10	0.777	1.242	0.965	0.603	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	0.01	2510.00	502000	DFT-s-OFDM	1.0	24.20	23.31	100	0	Front	10	0.642	1.227	0.788	0.493	
Head	NR Band n7	20	QPSK	Aluminum	Sport	7LP03	1:1	-0.04	2510.00	502000	CP-OFDM	1.5	23.70	22.91	1	1	Front	10	0.620	1.199	0.743	0.464	
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	7LP03	1:1	-0.20	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Front	10	0.823	1.199	0.907	0.537	
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	7LP03	1:1	-0.14	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Front	10	0.800	1.211	0.484	0.303	
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	7LP03	1:1	0.02	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Front	10	0.457	1.199	0.548	0.343	
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	7LP03	1:1	0.08	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Front	10	0.456	1.211	0.552	0.345	
Head	NR Band n7	20	QPSK	Titanium	Sport	SVRXR	1:1	-0.05	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Front	10	0.795	1.199	0.881	0.551	
Head	NR Band n7	20	QPSK	Titanium	Sport	SVRXR	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.36	1	1	Front	10	0.653	1.213	0.792	0.495	
Head	NR Band n7	20	QPSK	Titanium	Sport	SVRXR	1:1	0.10	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.25	1	53	Front	10	0.684	1.245	0.852	0.533	
Head	NR Band n7	20	QPSK	Titanium	Sport	SVRXR	1:1	0.07	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Front	10	0.798	1.211	0.966	0.604	
Head	NR Band n7	20	QPSK	Titanium	Sport	SVRXR	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.27	50	28	Front	10	0.728	1.239	0.902	0.564	
Head	NR Band n7	20	QPSK	Titanium	Sport	SVRXR	1:1	-0.01	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.26	50	28	Front	10	0.722	1.242	0.897	0.561	
Head	NR Band n7	20	QPSK	Titanium	Sport	SVRXR	1:1	0.05	2510.00	502000	DFT-s-OFDM	1.0	24.20	23.31	100	0	Front	10	0.598	1.227	0.734	0.459	
Head	NR Band n7	20	QPSK	Titanium	Sport	SVRXR	1:1	0.02	2510.00	502000	CP-OFDM	1.5	23.70	22.91	1	1	Front	10	0.568	1.199	0.681	0.426	
Head	NR Band n7	20	QPSK	Titanium	Metal Loop	SVRXR	1:1	-0.18	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Front	10	0.465	1.199	0.558	0.349	
Head	NR Band n7	20	QPSK	Titanium	Metal Loop	SVRXR	1:1	0.18	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Front	10	0.489	1.211	0.592	0.370	
Head	NR Band n7	20	QPSK	Titanium	Metal Links	SVRXR	1:1	0.13	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Front	10	0.482	1.199	0.578	0.361	
Head	NR Band n7	20	QPSK	Titanium	Metal Links	SVRXR	1:1	0.09	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Front	10	0.464	1.211	0.586	0.366	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Head					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

Note: Blue entry represents variability measurement

10.36 NR Band n7 Standalone Extremity SAR

Table 10-36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	PQDPF	1:1	0.06	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Back	0	0.128	1.199	0.153	0.038	
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	PQDPF	1:1	-0.06	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Back	0	0.217	1.211	0.263	0.066	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	PQDPF	1:1	-0.08	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Back	0	0.347	1.199	0.416	0.104	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	PQDPF	1:1	-0.03	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Back	0	0.360	1.211	0.436	0.109	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	PQDPF	1:1	-0.01	2510.00	502000	CP-OFDM	1.5	23.70	22.91	1	1	Back	0	0.233	1.199	0.279	0.070	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	PQDPF	1:1	-0.08	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Back	0	0.350	1.199	0.420	0.105	
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	PQDPF	1:1	0.06	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Back	0	0.337	1.211	0.408	0.102	
Extremity	NR Band n7	20	QPSK	Titanium	Sport	V2534	1:1	-0.01	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Back	0	0.357	1.199	0.428	0.107	
Extremity	NR Band n7	20	QPSK	Titanium	Sport	V2534	1:1	0.01	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Back	0	0.292	1.211	0.394	0.089	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	V2534	1:1	-0.01	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	1	1	Back	0	0.418	1.199	0.501	0.125	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	V2534	1:1	0.04	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	50	28	Back	0	0.530	1.211	0.642	0.161	A36
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	V2534	1:1	0.06	2510.00	502000	CP-OFDM	1.5	23.70	22.91	1	1	Back	0	0.223	1.199	0.266	0.067	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	V2534	1:1	-0.20	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.37	1	1	Back	0	0.420	1.199	0.504	0.126	
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	V2534	1:1	0.01	2510.00	502000	DFT-s-OFDM	0.0	25.20	24.41	50	28	Back	0	0.350	1.211	0.424	0.106	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Extremity				
Spatial Peak																			4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population																			averaged over 10 grams				

10.37 NR Band n41 Standalone Head SAR

Table 10-37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Front	10	0.691	1.219	0.842	0.526	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	-0.02	2549.49	509898	DFT-s-OFDM	0.0	25.20	24.27	1	1	Front	10	0.778	1.239	0.964	0.603	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.12	1	1	Front	10	0.837	1.282	1.073	0.671	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.02	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.98	1	1	Front	10	0.769	1.324	1.018	0.636	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.01	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.03	1	1	Front	10	0.626	1.309	0.819	0.512	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.06	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Front	10	0.721	1.216	0.877	0.548	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	-0.01	2549.49	509898	DFT-s-OFDM	0.0	25.20	24.12	25	13	Front	10	0.860	1.225	1.185	0.741	A37
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.15	25	13	Front	10	0.749	1.274	0.954	0.596	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.01	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.04	25	13	Front	10	0.827	1.306	1.080	0.675	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.08	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.16	25	13	Front	10	0.657	1.271	0.835	0.522	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.04	2506.02	501204	DFT-s-OFDM	1.5	24.20	23.26	50	0	Front	10	0.696	1.242	0.864	0.540	
Head	NR Band n41	20	QPSK	Aluminum	Sport	79L03	1:1	0.07	2506.02	501204	CP-OFDM	1.5	23.70	23.00	1	1	Front	10	0.604	1.175	0.710	0.444	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.05	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Front	10	0.593	1.219	0.723	0.452	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.07	2549.49	509898	DFT-s-OFDM	0.0	25.20	24.27	1	1	Front	10	0.524	1.239	0.649	0.406	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.12	1	1	Front	10	0.638	1.282	0.818	0.511	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	-0.01	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.98	1	1	Front	10	0.577	1.324	0.764	0.478	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.08	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.03	1	1	Front	10	0.504	1.309	0.660	0.413	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.02	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Front	10	0.634	1.216	0.771	0.482	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.06	2549.49	509898	DFT-s-OFDM	0.0	25.20	24.32	25	13	Front	10	0.512	1.225	0.627	0.392	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.15	25	13	Front	10	0.573	1.274	0.730	0.456	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.08	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.04	25	13	Front	10	0.615	1.306	0.803	0.502	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	-0.01	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.16	25	13	Front	10	0.567	1.271	0.721	0.451	
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	79L03	1:1	0.19	2506.02	501204	DFT-s-OFDM	1.0	24.20	23.26	50	0	Front	10	0.498	1.242	0.619	0.387	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	79L03	1:1	0.10	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Front	10	0.410	1.219	0.500	0.313	
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	79L03	1:1	0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Front	10	0.332	1.216	0.404	0.253	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.10	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Front	10	0.749	1.219	0.913	0.571	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.07	2549.49	509898	DFT-s-OFDM	0.0	25.20	24.27	1	1	Front	10	0.653	1.239	0.809	0.508	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.14	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.12	1	1	Front	10	0.681	1.282	0.873	0.546	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	-0.03	2636.49	527298	DFT-s-OFDM	0.0	25.20	23.98	1	1	Front	10	0.632	1.324	0.837	0.523	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.08	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.03	1	1	Front	10	0.567	1.309	0.742	0.464	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	-0.02	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Front	10	0.858	1.216	1.043	0.652	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.06	2549.49	509898	DFT-s-OFDM	0.0	25.20	24.32	25	13	Front	10	0.735	1.225	0.900	0.563	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.15	25	13	Front	10	0.709	1.274	0.903	0.564	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.15	2636.49	527298	DFT-s-OFDM	0.0	25.20	24.04	25	13	Front	10	0.588	1.306	0.768	0.480	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.04	2679.99	535998	DFT-s-OFDM	0.0	25.20	24.16	25	13	Front	10	0.617	1.271	0.784	0.490	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.02	2506.02	501204	DFT-s-OFDM	1.0	24.20	23.26	50	0	Front	10	0.549	1.242	0.682	0.426	
Head	NR Band n41	20	QPSK	Titanium	Sport	Z2534	1:1	0.07	2506.02	501204	CP-OFDM	1.5	23.70	23.00	1	1	Front	10	0.541	1.175	0.636	0.398	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	Z2534	1:1	0.12	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Front	10	0.471	1.219	0.574	0.359	
Head	NR Band n41	20	QPSK	Titanium	Metal Loop	Z2534	1:1	-0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Front	10	0.451	1.216	0.548	0.343	
Head	NR Band n41	20	QPSK	Titanium	Metal Links	Z2534	1:1	0.04	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Front	10	0.482	1.219	0.588	0.368	
Head	NR Band n41	20	QPSK	Titanium	Metal Links	Z2534	1:1	0.06	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Front	10	0.475	1.216	0.578	0.361	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				Head			
Uncontrolled Exposure/General Population																				1.6 W/kg (mW/g)			
																				averaged over 1 gram			

Note: Blue entry represents variability measurement

10.38 NR Band n41 Standalone Extremity SAR

Table 10-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	PQDPP	1:1	-0.12	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Back	0	0.084	1.219	0.115	0.029	
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	PQDPP	1:1	0.05	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Back	0	0.088	1.216	0.119	0.030	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	PQDPP	1:1	0.04	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Back	0	0.260	1.219	0.317	0.079	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	PQDPP	1:1	0.05	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Back	0	0.187	1.216	0.422	0.106	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	PQDPP	1:1	0.02	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Back	0	0.379	1.219	0.462	0.116	A38
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	PQDPP	1:1	0.06	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Back	0	0.327	1.216	0.398	0.100	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	PQDPP	1:1	0.07	2506.02	501204	CP-OFDM	1.5	23.70	23.00	1	1	Back	0	0.212	1.175	0.249	0.062	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	QD17Y	1:1	-0.21	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Back	0	0.124	1.219	0.151	0.038	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	QD17Y	1:1	-0.05	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Back	0	0.117	1.216	0.142	0.036	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	QD17Y	1:1	0.00	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Back	0	0.155	1.219	0.189	0.047	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	QD17Y	1:1	-0.09	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Back	0	0.309	1.216	0.254	0.064	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	QD17Y	1:1	-0.05	2506.02	501204	CP-OFDM	1.5	23.70	23.00	1	1	Back	0	0.168	1.175	0.216	0.054	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	QD17Y	1:1	0.09	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.34	1	1	Back	0	0.193	1.219	0.235	0.059	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	QD17Y	1:1	-0.07	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.35	25	13	Back	0	0.158	1.216	0.192	0.048	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Extremity				
Uncontrolled Exposure/General Population																			4.0 W/kg (mW/g)				
																			averaged over 30 grams				

10.39 2.4 GHz WIFI SISO Standalone Head SAR

Table 10-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Sport	7WL4K	99.76	0.02	2412	1	1.0	19.00	18.09	Front	10	0.174	1.233	1.002	0.215	0.134	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	7WL4K	99.76	0.03	2412	1	1.0	19.00	18.09	Front	10	0.137	1.233	1.002	0.169	0.106	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Links	7WL4K	99.76	-0.01	2412	1	1.0	19.00	18.09	Front	10	0.147	1.233	1.002	0.182	0.114	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	NWD2D	99.76	0.01	2412	1	1.0	19.00	18.09	Front	10	0.210	1.233	1.002	0.259	0.162	A39
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	NWD2D	99.76	0.05	2412	1	1.0	19.00	18.09	Front	10	0.132	1.233	1.002	0.163	0.102	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Links	NWD2D	99.76	0.10	2412	1	1.0	19.00	18.09	Front	10	0.142	1.233	1.002	0.175	0.109	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Sport	DY743	29.35	-0.03	2412	1	1.0	19.00	18.09	Front	10	0.061	1.233	1.022	0.077	0.048	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	DY743	29.35	-0.09	2412	1	1.0	19.00	18.09	Front	10	0.046	1.233	1.022	0.058	0.036	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Links	DY743	29.35	0.11	2412	1	1.0	19.00	18.09	Front	10	0.042	1.233	1.022	0.053	0.033	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	NWD2D	29.35	-0.04	2412	1	1.0	19.00	18.09	Front	10	0.055	1.233	1.022	0.069	0.043	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	NWD2D	29.35	-0.04	2412	1	1.0	19.00	18.09	Front	10	0.039	1.233	1.022	0.049	0.031	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Links	NWD2D	29.35	-0.02	2412	1	1.0	19.00	18.09	Front	10	0.034	1.233	1.022	0.043	0.027	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram							

Note: The reported SAR for WLAN scenarios with the licensed antenna active was scaled to the 30.0% transmission duty factor since the duty factor of the device is permanently limited to 30.0% when the cellular radio is active, per the manufacturer. The WLAN scenarios with the reduced duty factor were tested at 29.35% transmission duty factor.

10.40 2.4 GHz WIFI SISO Standalone Extremity SAR

Table 10-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Sport	7WL4K	99.76	-0.21	2412	1	1.0	19.00	18.09	Back	0	0.031	1.233	1.002	0.038	0.010	
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	7WL4K	99.76	0.02	2412	1	1.0	19.00	18.09	Back	0	0.042	1.233	1.002	0.052	0.013	
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Links	7WL4K	99.76	-0.04	2412	1	1.0	19.00	18.09	Back	0	0.054	1.233	1.002	0.067	0.017	
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	NWD2D	99.76	-0.14	2412	1	1.0	19.00	18.09	Back	0	0.048	1.233	1.002	0.059	0.015	
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	NWD2D	99.76	-0.09	2412	1	1.0	19.00	18.09	Back	0	0.071	1.233	1.002	0.088	0.022	A40
Extremity	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Links	NWD2D	99.76	-0.06	2412	1	1.0	19.00	18.09	Back	0	0.062	1.233	1.002	0.077	0.019	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams							

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10.41 5 GHz WIFI SISO Standalone Head SAR

Table 10-42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	93.29	0.07	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.143	1.213	1.072	0.186	0.116	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	93.29	0.09	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.317	1.236	1.072	0.420	0.263	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	93.29	0.09	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.171	1.297	1.072	0.377	0.236	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	93.29	0.04	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.129	1.213	1.072	0.168	0.105	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	93.29	0.18	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.327	1.236	1.072	0.433	0.271	A41
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	93.29	0.08	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.223	1.297	1.072	0.310	0.194	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	93.29	0.08	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.144	1.213	1.072	0.187	0.117	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	93.29	0.06	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.321	1.236	1.072	0.425	0.266	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	93.29	0.21	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.265	1.297	1.072	0.368	0.230	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	93.29	0.06	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.218	1.213	1.072	0.283	0.177	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	93.29	-0.09	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.250	1.236	1.072	0.331	0.207	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	93.29	0.09	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.197	1.297	1.072	0.274	0.171	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	93.29	0.08	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.202	1.213	1.072	0.263	0.164	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	93.29	0.07	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.238	1.236	1.072	0.315	0.197	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	93.29	0.07	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.213	1.297	1.072	0.296	0.185	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	93.29	0.02	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.187	1.213	1.072	0.243	0.152	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	93.29	0.05	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.254	1.236	1.072	0.337	0.211	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	93.29	0.06	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.197	1.297	1.072	0.274	0.171	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head 1.6 W/kg (mW/g) averaged over 1 gram					
Spatial Peak																						
Uncontrolled Exposure/General Population																						

Table 10-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	29.93	0.06	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.041	1.213	1.002	0.050	0.031	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	29.93	-0.20	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.071	1.236	1.002	0.088	0.055	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	29.93	0.07	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.048	1.297	1.002	0.062	0.039	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	29.93	0.01	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.031	1.213	1.002	0.038	0.024	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	29.93	0.07	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.064	1.236	1.002	0.079	0.049	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	29.93	0.08	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.045	1.297	1.002	0.059	0.037	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	29.93	0.09	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.041	1.213	1.002	0.050	0.031	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	29.93	-0.12	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.066	1.236	1.002	0.082	0.051	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	29.93	0.03	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.046	1.297	1.002	0.060	0.038	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	29.93	0.07	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.053	1.213	1.002	0.064	0.040	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	29.93	0.07	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.061	1.236	1.002	0.076	0.048	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	29.93	0.04	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.040	1.297	1.002	0.052	0.033	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	29.93	0.01	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.058	1.213	1.002	0.071	0.044	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	29.93	0.05	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.049	1.236	1.002	0.061	0.038	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	29.93	0.03	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.042	1.297	1.002	0.055	0.034	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	29.93	-0.06	5300	60	U-NII-2A	6.0	17.00	16.16	Front	10	0.051	1.213	1.002	0.062	0.039	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	29.93	0.02	5600	120	U-NII-2C	6.0	17.00	16.08	Front	10	0.054	1.236	1.002	0.067	0.042	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	29.93	0.08	5825	165	U-NII-3	6.0	17.00	15.87	Front	10	0.042	1.297	1.002	0.055	0.034	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head 1.6 W/kg (mW/g) averaged over 1 gram					
Spatial Peak																						
Uncontrolled Exposure/General Population																						

Note: The reported SAR for WLAN scenarios with the licensed antenna active was scaled to the 30.0% transmission duty factor since the duty factor of the device is permanently limited to 30.0% when the cellular radio is active, per the manufacturer. The WLAN scenarios with the reduced duty factor were tested at 29.93% transmission duty factor.

10.42 5 GHz WIFI SISO Standalone Extremity SAR

Table 10-44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	93.29	0.09	5300	60	U-NII-2A	6.0	17.00	16.16	Back	0	0.003	1.213	1.072	0.004	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	93.29	0.07	5600	120	U-NII-2C	6.0	17.00	16.08	Back	0	0.010	1.236	1.072	0.013	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	SVF2	93.29	-0.20	5825	165	U-NII-3	6.0	17.00	15.87	Back	0	0.032	1.297	1.072	0.046	0.011	A42
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	93.29	0.01	5300	60	U-NII-2A	6.0	17.00	16.16	Back	0	0.009	1.213	1.072	0.010	0.000	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	93.29	0.01	5600	120	U-NII-2C	6.0	17.00	16.08	Back	0	0.022	1.236	1.072	0.029	0.007	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	SVF2	93.29	0.08	5825	165	U-NII-3	6.0	17.00	15.87	Back	0	0.015	1.297	1.072	0.021	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	93.29	0.06	5300	60	U-NII-2A	6.0	17.00	16.16	Back	0	0.009	1.213	1.072	0.004	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	93.29	0.06	5600	120	U-NII-2C	6.0	17.00	16.08	Back	0	0.006	1.236	1.072	0.008	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	SVF2	93.29	-0.18	5825	165	U-NII-3	6.0	17.00	15.87	Back	0	0.023	1.297	1.072	0.032	0.008	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	93.29	0.01	5300	60	U-NII-2A	6.0	17.00	16.16	Back	0	0.003	1.213	1.072	0.004	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	93.29	0.02	5600	120	U-NII-2C	6.0	17.00	16.08	Back	0	0.014	1.236	1.072	0.019	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	W4636	93.29	0.04	5825	165	U-NII-3	6.0	17.00	15.87	Back	0	0.005	1.297	1.072	0.007	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	93.29	0.03	5300	60	U-NII-2A	6.0	17.00	16.16	Back	0	0.004	1.213	1.072	0.005	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	93.29	0.04	5600	120	U-NII-2C	6.0	17.00	16.08	Back	0	0.011	1.236	1.072	0.015	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	W4636	93.29	0.09	5825	165	U-NII-3	6.0	17.00	15.87	Back	0	0.006	1.297	1.072	0.008	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	93.29	0.04	5300	60	U-NII-2A	6.0	17.00	16.16	Back	0	0.003	1.213	1.072	0.004	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	93.29	0.03	5600	120	U-NII-2C	6.0	17.00	16.08	Back	0	0.013	1.236	1.072	0.016	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	W4636	93.29	0.03	5825	165	U-NII-3	6.0	17.00	15.87	Back	0	0.001	1.297	1.072	0.015	0.004	
ANSI/ELECTRIC 1392 - SAFETY LIMIT																						
Spatial Peak																		Extremity				
Unintended Exposure/General Population																		4.0 W/kg (mW/g) averaged over 10 grams				

10.43 2.4 GHz Bluetooth SISO Standalone Head SAR

Table 10-45

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	7WL4K	100.00	-0.03	2402	0	1	17.50	15.82	Front	10	0.128	1.472	1.000	0.188	0.118	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	7WL4K	100.00	0.07	2402	0	1	17.50	15.82	Front	10	0.088	1.472	1.000	0.130	0.081	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	7WL4K	100.00	-0.03	2402	0	1	17.50	15.82	Front	10	0.069	1.472	1.000	0.102	0.064	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Sport	NWD2D	100.00	0.03	2402	0	1	17.50	15.82	Front	10	0.142	1.472	1.000	0.209	0.131	A43
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	NWD2D	100.00	0.00	2402	0	1	17.50	15.82	Front	10	0.084	1.472	1.000	0.124	0.078	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Links	NWD2D	100.00	-0.04	2402	0	1	17.50	15.82	Front	10	0.077	1.472	1.000	0.113	0.071	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-46

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	3439N	100.00	0.01	2402	0	1	13.00	11.63	Front	10	0.046	1.371	1.000	0.063	0.039	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	3439N	100.00	-0.11	2402	0	1	13.00	11.63	Front	10	0.032	1.371	1.000	0.044	0.028	
Head	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	3439N	100.00	0.05	2402	0	1	13.00	11.63	Front	10	0.032	1.371	1.000	0.044	0.028	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Sport	5VJRX	100.00	0.04	2402	0	1	13.00	11.63	Front	10	0.046	1.371	1.000	0.063	0.039	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	5VJRX	100.00	0.12	2402	0	1	13.00	11.63	Front	10	0.028	1.371	1.000	0.038	0.024	
Head	2.4 GHz Bluetooth	FHSS	Titanium	Metal Links	5VJRX	100.00	0.08	2402	0	1	13.00	11.63	Front	10	0.031	1.371	1.000	0.043	0.027	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							

10.44 2.4 GHz Bluetooth SISO Standalone Extremity SAR

Table 10-47

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	7WL4K	100.00	-0.03	2402	0	1	17.50	15.82	Back	0	0.016	1.472	1.000	0.024	0.006	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	7WL4K	100.00	-0.07	2402	0	1	17.50	15.82	Back	0	0.023	1.472	1.000	0.034	0.009	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	7WL4K	100.00	-0.05	2402	0	1	17.50	15.82	Back	0	0.022	1.472	1.000	0.032	0.008	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Sport	NWD2D	100.00	-0.09	2402	0	1	17.50	15.82	Back	0	0.031	1.472	1.000	0.046	0.012	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	NWD2D	100.00	-0.02	2402	0	1	17.50	15.82	Back	0	0.036	1.472	1.000	0.051	0.013	A44
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Links	NWD2D	100.00	-0.13	2402	0	1	17.50	15.82	Back	0	0.034	1.472	1.000	0.050	0.013	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Extremity 4.0 W/kg (mW/g) averaged over 10 grams							

Table 10-48

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Sport	3439N	100.00	0.05	2402	0	1	13.00	11.63	Back	0	0.005	1.371	1.000	0.007	0.002	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Loop	3439N	100.00	0.07	2402	0	1	13.00	11.63	Back	0	0.007	1.371	1.000	0.010	0.003	
Extremity	2.4 GHz Bluetooth	FHSS	Aluminum	Metal Links	3439N	100.00	-0.07	2402	0	1	13.00	11.63	Back	0	0.010	1.371	1.000	0.014	0.004	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Sport	5VJRX	100.00	0.09	2402	0	1	13.00	11.63	Back	0	0.012	1.371	1.000	0.016	0.004	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Loop	5VJRX	100.00	-0.19	2402	0	1	13.00	11.63	Back	0	0.014	1.371	1.000	0.019	0.005	
Extremity	2.4 GHz Bluetooth	FHSS	Titanium	Metal Links	5VJRX	100.00	0.03	2402	0	1	13.00	11.63	Back	0	0.018	1.371	1.000	0.025	0.006	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Extremity 4.0 W/kg (mW/g) averaged over 10 grams							

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10.45 5 GHz 802.15.4 ab-NB SISO Standalone Head SAR

Table 10-49

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Sport	Q7RV2	0.01	5786	Mid	1	16.00	15.03	Front	10	0.013	1.250	1.016	0.017	0.011	
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Loop	Q7RV2	0.09	5786	Mid	1	16.00	15.03	Front	10	0.010	1.250	1.016	0.013	0.008	
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Links	Q7RV2	0.01	5786	Mid	1	16.00	15.03	Front	10	0.016	1.250	1.016	0.020	0.013	A45
Head	802.15.4 ab-NB	O-QPSK	Titanium	Sport	CK226	0.06	5786	Mid	1	16.00	15.03	Front	10	0.009	1.250	1.016	0.011	0.007	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Metal Loop	CK226	0.07	5786	Mid	1	16.00	15.03	Front	10	0.008	1.250	1.016	0.010	0.006	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Metal Links	CK226	0.06	5786	Mid	1	16.00	15.03	Front	10	0.012	1.250	1.016	0.015	0.009	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram							

Note: The reported SAR was scaled to the 8.90% transmission duty factor.

10.46 5 GHz 802.15.4 ab-NB SISO Standalone Extremity SAR

Table 10-50

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Sport	5VJF2	0.06	5786	Mid	1	16.00	15.03	Back	0	0.000	1.250	1.016	0.000	0.000	A46
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Loop	5VJF2	0.09	5786	Mid	1	16.00	15.03	Back	0	0.000	1.250	1.016	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Links	5VJF2	0.02	5786	Mid	1	16.00	15.03	Back	0	0.000	1.250	1.016	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Sport	W4636	0.01	5786	Mid	1	16.00	15.03	Back	0	0.000	1.250	1.016	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Metal Loop	W4636	0.08	5786	Mid	1	16.00	15.03	Back	0	0.000	1.250	1.016	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Metal Links	W4636	0.09	5786	Mid	1	16.00	15.03	Back	0	0.000	1.250	1.016	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Extremity 4.0 W/kg (mW/g) averaged over 10 grams							

10.47 NFC Standalone Extremity SAR

Table 10-51

Exposure	Band / Mode	Signal Type	Housing Type	Wristband Type	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	NFC	B	Aluminum	Sport	PQDPF	0.01	13.56	Back	0	0.000	0.000	
Extremity	NFC	B	Aluminum	Metal Loop	PQDPF	0.01	13.56	Back	0	0.000	0.000	
Extremity	NFC	B	Aluminum	Metal Links	PQDPF	0.01	13.56	Back	0	0.000	0.000	
Extremity	NFC	B	Titanium	Sport	5VJRX	0.01	13.56	Back	0	0.000	0.000	
Extremity	NFC	B	Titanium	Metal Loop	5VJRX	0.01	13.56	Back	0	0.000	0.000	A47
Extremity	NFC	B	Titanium	Metal Links	5VJRX	0.05	13.56	Back	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 grams			

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10.48 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see section 11 for variability analysis.
7. This device has two housing types: Aluminum and Titanium. The non-metallic wrist accessory, sport band, was evaluated for all exposure conditions. The available metallic wrist accessories, metal links band and metal loop band, were additionally evaluated.
8. This device is a portable wrist-worn device and does not support any other use conditions. Therefore, the procedures in FCC KDB Publication 447498 D04v01 Section 3.3.3/3.3.1 have been applied for extremity and next to mouth (head) conditions.
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.2.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g SAR, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. This device can only operate with 16 QAM on the uplink with less than or equal to 27 RB. QPSK and 16QAM LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") were additionally measured to support comparison and SAR test exclusion per KDB 941225 D05v02r04 Section 5.2.4 and 5.3.

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NR Notes:

1. NR implementation supports SA mode.
2. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
3. Per FCC KDB Publication 447498 D04v01, when the reported SAR measured at the highest output power channel in a given test configuration was $> 0.6 \text{ W/kg}$ for 1g SAR evaluations and $> 1.5 \text{ W/kg}$ for 10g SAR evaluations for NR n41, testing at the other channels was required for such test configurations.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.3.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.3.5 for more information.
3. When the maximum reported 1g averaged SAR is $\leq 0.8 \text{ W/kg}$, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was $\leq 1.20 \text{ W/kg}$ for 1g evaluations or all test channels were measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance.
5. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Bluetooth Notes

1. To determine compliance, Bluetooth SAR was measured with the maximum power condition. Bluetooth was evaluated with a test mode with 100% transmission duty factor.

802.15.4 ab-Nb Notes

1. 802.15.4 ab-NB SAR was scaled to the 8.9% transmission duty factor to determine compliance since the duty factor of the device is limited to 8.9% per manufacturer. See Section 8.6 for the time domain plot and calculation for the duty factor of the device.

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11 SAR MEASUREMENT VARIABILITY

11.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg.
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 11-1
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS									
Band	FREQUENCY		Mode	Service	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio
	MHz	Ch.					(W/kg)	(W/kg)	
2450	2510	502000	NR Band n7, 20 MHz Bandwidth, DFT-s-OFDM	QPSK, 50 RB, 28 RB Offset	Front	10 mm	0.871	0.761	1.14
2600	2549.49	509898	NR Band n41, 20 MHz Bandwidth, DFT-s-OFDM	QPSK, 25 RB, 13 RB Offset	Front	10 mm	0.967	0.860	1.12
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Head 1.6 W/kg (mW/g) averaged over 1 gram			

11.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis was not required.

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12 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	159A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	ML2496A	Power Meter	10/21/2024	Annual	10/21/2025	2002005
Anritsu	ML2495A	Power Meter	2/10/2025	Annual	2/10/2026	1351001
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027292
Institec	110B-150	Institec - Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	10/29/2024	Annual	10/29/2025	1248508
Mini-Circuits	PWR-4GH5	9-KHz-4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	1250370057
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	N9020A	MXA Signal Analyzer	5/7/2025	Annual	5/7/2026	US46470561
Agilent	N9020A	MXA Signal Analyzer	10/27/2024	Annual	10/27/2025	MY51240479
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Rosenberger	32W006-016	Torque Wrench	4/2/2024	Biennial	4/2/2026	N/A
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	102060
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	167112
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAK5-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	CLA-13	Confined Loop Antenna	11/11/2024	Annual	11/11/2025	1004
SPEAG	D750V3	750 MHz SAR Dipole	5/9/2025	Annual	5/9/2026	1057
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Biennial	9/13/2025	1097
SPEAG	D835V2	835 MHz SAR Dipole	11/18/2022	Triennial	11/18/2025	4d108
SPEAG	D1750V2	1750 MHz SAR Dipole	11/17/2022	Triennial	11/17/2025	1040
SPEAG	D1900V2	1900 MHz SAR Dipole	8/8/2023	Biennial	8/8/2025	5d180
SPEAG	D2450V2	2450 MHz SAR Dipole	10/23/2024	Annual	10/23/2025	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D2600V2	2600 MHz SAR Dipole	5/7/2025	Annual	5/7/2026	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	1068
SPEAG	D2600V2	2600 MHz SAR Dipole	9/12/2023	Biennial	9/12/2025	1069
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/8/2024	Annual	11/8/2025	1066
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/8/2025	Annual	1/8/2026	1465
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2025	Annual	4/9/2026	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/10/2024	Annual	10/10/2025	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/4/2024	Annual	12/4/2025	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	1646
SPEAG	EX3DV4	SAR Probe	4/11/2025	Annual	4/11/2026	7357
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7427
SPEAG	EX3DV4	SAR Probe	12/9/2024	Annual	12/9/2025	7490
SPEAG	EX3DV4	SAR Probe	10/15/2024	Annual	10/15/2025	3746
SPEAG	EX3DV4	SAR Probe	3/6/2025	Annual	3/6/2026	7638
SPEAG	EX3DV4	SAR Probe	1/14/2025	Annual	1/14/2026	7499
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	3837
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7532
SPEAG	EX3DV4	SAR Probe	9/12/2024	Annual	9/12/2025	7782

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler, or filter were connected to a calibrated source (i.e., a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements. Each equipment item was used solely within its respective calibration period.

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13 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

The above measurement uncertainties are according to IEEE Std. 1528-2013

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14 CONCLUSION

14.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g., ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g., age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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