



ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
18855 Adams Court, Morgan Hill, CA 95037 USA
Tel. 408.538.5600
<http://www.element.com>



RF EXPOSURE PART 1 TEST REPORT

Applicant Name:
Apple, Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:
06/12/2026 – 07/24/2026
Test Report Issue Date:
08/12/2026
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2604100032-19.BCG-R2

FCC ID: BCG-A3587

APPLICANT: APPLE, INC.

DUT Type: Watch
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A3587, A3588

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Head (W/kg)	1g Extremity (W/kg)
PCT	LTE Band 71	695.5 - 695.5 MHz	<0.1	0.28
PCT	LTE Band 12	695.7 - 715.5 MHz	<0.1	0.34
PCT	LTE Band 17	715.5 - 715.5 MHz	N/A	N/A
PCT	LTE Band 13	715.5 - 715.5 MHz	<0.1	0.37
PCT	LTE Band 14	715.5 - 715.5 MHz	<0.1	0.35
PCT	LTE Band 25 (CAB)	814.7 - 845.5 MHz	<0.1	0.36
PCT	LTE Band 15 (CAB)	824.7 - 845.5 MHz	<0.1	0.35
PCT	LTE Band 66 (AWVS)	1710.7 - 1779.3 MHz	0.23	0.13
PCT	LTE Band 4 (AWVS)	1710.7 - 1779.3 MHz	N/A	N/A
PCT	LTE Band 25 (PCS)	1850.7 - 1915.3 MHz	0.35	<0.1
PCT	LTE Band 2 (PCS)	1850.7 - 1915.3 MHz	N/A	N/A
PCT	LTE Band 7	2025.5 - 2057.5 MHz	1.15	0.15
PCT	LTE Band 41	2495.5 - 2507.5 MHz	0.50	0.32
PCT	NR Band n71	695.5 - 695.5 MHz	<0.1	0.37
PCT	NR Band n12	715.5 - 715.5 MHz	<0.1	0.45
PCT	NR Band n14	715.5 - 715.5 MHz	<0.1	0.43
PCT	NR Band n25 (CAB)	814.7 - 845.5 MHz	<0.1	0.36
PCT	NR Band n15 (CAB)	824.7 - 845.5 MHz	<0.1	0.37
PCT	NR Band n66 (AWVS)	1710.7 - 1779.3 MHz	0.37	0.17
PCT	NR Band n4 (AWVS)	1710.7 - 1779.3 MHz	0.35	0.11
PCT	NR Band n25 (PCS)	1850.7 - 1915.3 MHz	N/A	N/A
PCT	NR Band n2 (PCS)	1850.7 - 1915.3 MHz	N/A	N/A
PCT	NR Band n7	2025.5 - 2057.5 MHz	1.15	0.15
PCT	NR Band n41	2495.5 - 2507.5 MHz	1.12	0.41
UTS	2.4 GHz Wi-Fi	2412 - 2472 MHz	0.55	<0.1
NR	5 GHz Wi-Fi	U-NB-1: 5150 - 5250 MHz U-NB-2A: 5200 - 5300 MHz U-NB-2C: 5300 - 5725 MHz U-NB-3: 5745 - 5825 MHz	0.15	<0.1
DSSTD/S	2.4 GHz Bluetooth	2402 - 2480 MHz	0.20	<0.1
NR	5G 15.4 4G-NB	5725.75 - 5845.25 MHz	<0.1	<0.1
DOX	RF	13.56 MHz	N/A	<0.1
UTS	Wi-Fi	5850.0 - 7195.7 MHz	N/A	N/A
Simultaneous SAR per FCC 60273a DEL010101			1.44	0.42

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 1.9 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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Revision Summary

Revision	Description	Issue Date	Revised By
-	Initial Release	07/26/2026	WKR0000020506
R1	Addressed TCB Comments	08/06/2026	WKR0000020506
R2	Addressed TCB Comments	08/07/2026	WKR0000020506

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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	2505.0 - 2685.0 MHz
2.4 GHz WIFI	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
2.4 GHz 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 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with MediaTek TAS algorithm feature for WWAN modes technologies. These features perform time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to the technical description document for detailed description of MediaTek TAS algorithm feature.

Note that WLAN, Bluetooth, 802.15.4 ab-NB, UWB, and NFC operations are not enabled with TAS.

The TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_limit, below the predefined time-averaged power limit (i.e., Plimit for WWAN sub-6), for each characterized technology and band. SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer.

TAS allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Final Plimit settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Exposure Condition Index ECI for MediaTek). Note that the device uncertainty for sub-6GHz WWAN is shown below:

Table 1-1

SAR_design_target Calculations						
Mode/Band	1g SAR [W/kg]			10g SAR [W/kg]		
	Smart Tx Uncertainty	SAR_design_target	SAR_regulatory_limit	Smart Tx Uncertainty	SAR_design_target	SAR_regulatory_limit
LTE FDD Band 7	1.90	0.77	1.6 W/kg	1.20	2.27	4 W/kg
NR TDD Band n41	1.70	0.81		1.20	2.27	
NR FDD Band n7	1.90	0.77		1.20	2.27	
All other modes/bands	1.20	0.91		1.20	2.27	

The maximum time-averaged output power (dBm) for any WWAN sub-6 technology, band, and ECI is the minimum of ("Plimit " and "Maximum tune up output power Pmax") + corresponding device uncertainty on the table above. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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Exposure Scenario:	Maximum Tune-up Output Power*	Head	Extremity
Averaging Volume:		1g	10g
Spacing:		10 mm	0 mm
ECI:		1	0
Technology/Band	Pmax		
LTE Band 71	24.50	49.50	34.70
LTE Band 12	24.50	48.20	33.90
LTE Band 17	24.50	N/A	N/A
LTE Band 13	24.50	47.30	33.60
LTE Band 14	24.50	47.80	33.30
LTE Band 26	24.50	48.70	33.60
LTE Band 5	24.50	46.80	33.30
LTE Band 4	24.00	N/A	N/A
LTE Band 66	24.00	31.20	37.50
LTE Band 2	24.00	N/A	N/A
LTE Band 25	24.00	28.90	39.30
LTE Band 7	24.00	21.80	30.00
LTE Band 41	22.00	23.20	31.70
NR Band n71	24.50	47.70	33.50
NR Band n12	24.50	46.70	32.70
NR Band n14	24.50	45.70	32.90
NR Band n26	24.50	46.20	33.40
NR Band n5	24.50	49.20	33.50
NR Band n66	24.00	29.10	36.30
NR Band n2	24.00	N/A	N/A
NR Band n25	24.00	29.20	38.40
NR Band n7	24.00	22.20	30.30
NR Band n41	24.00	22.00	32.60

This device supports a different Exposure Condition Index (ECI) to configure different time-averaged power levels based on certain exposure conditions. When the speaker is active, ECI =1 represents the case where the device will be near the mouth of the user (in-front-of the face). ECI=0 represents the case when the speaker is inactive, and the device operates in close proximity to the user's body.

Plimit is calculated by linearly scaling with the measured SAR at the Part0/Part 1 to correspond to the SAR_design_target. When Plimit < Pmax, Part 1 SAR was used as Plimit in the TAS. When Plimit > Pmax and Part0/Part 1=Pmax, calculated Plimit was used in the TAS. All reported SAR obtained from the Part0/Part 1 SAR tests was less than SAR_Design_target + corresponding device uncertainty. The SAR measured in Part 0 at a fixed power level was also used for Part 1 report. The final Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in the table above.

All Plimit and maximum tune up output power Pmax levels entered in the above table correspond to average power levels after accounting for duty cycle in the case of LTE TDD modulation schemes.

When Pmax < Plimit, the DUT will operate at a power level up to Pmax

The SAR design limit is determined by accounting for device uncertainty, and the Psub6 limit is defined as the time-averaged power corresponding to the SAR design limit.

Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1.20 dB device design uncertainty.

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1.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for LTE Band 7, NR Band n7, and NR Band n41 during next to mouth scenarios. When the speaker is on, the output power of LTE Band 7, NR Band n7, and NR Band n41 is reduced.

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.

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1.4 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.

1.4.1 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 4	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 66	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 2	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 25	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 7	Max allowed power	25.20
	Nominal	24.00
LTE FDD Band 7 Reduced*	Max allowed power	23.70
	Nominal	21.80
LTE TDD Band 41	Max allowed power	25.20
	Nominal	24.00

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1.4.2

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 n2	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n25	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n7	Max allowed power	25.20
	Nominal	24.00
NR FDD Band n7 Reduced*	Max allowed power	24.10
	Nominal	22.20
NR TDD Band n41	Max allowed power	25.20
	Nominal	24.00
NR TDD Band n41 Reduced*	Max allowed power	23.70
	Nominal	22.00

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1.4.3

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	18.00	17.00	17.00	16.00	17.00	16.00
		2	18.00	17.00	17.50	16.50	17.50	16.50
		3	18.00	17.00	17.50	16.50	17.50	16.50
		4	18.00	17.00	17.50	16.50	17.50	16.50
		5	18.00	17.00	17.50	16.50	17.50	16.50
		6	18.00	17.00	17.50	16.50	17.50	16.50
		7	18.00	17.00	17.50	16.50	17.50	16.50
		8	18.00	17.00	17.50	16.50	17.50	16.50
		9	18.00	17.00	17.50	16.50	17.50	16.50
		10	18.00	17.00	17.50	16.50	17.50	16.50
		11	18.00	17.00	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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1.4.4 Maximum Output Power – Bluetooth Mode

Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	16.50
	Nominal	15.50
Bluetooth EDR	Maximum	12.00
	Nominal	11.00
Bluetooth HDR	Maximum	12.00
	Nominal	11.00

1.4.5 Reduced Output Power – Bluetooth Mode

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	12.00
	Nominal	11.00
Bluetooth HDR	Maximum	12.00
	Nominal	11.00

1.4.6 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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1.5 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.

1.6 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.

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1.7 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 procedures.

Table 1-2
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 based on expected usage conditions.
8. 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.

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1.8 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

This device supports channel 1-13 for 2.4 GHz WLAN. However, due to the reduced output power for channels 12 and 13, channels 1, 6, and 11 were considered for SAR testing per 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 D05v02r04.

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 7.5.4.

1.9 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04 (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
- April 2019, October 2020 TCBC Workshop Notes
- October 2022 TCB Workshop Notes (UWB)

1.10 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.

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1.11 Device Housing Types and Wrist Band Types

This device has three housing types that were evaluated independently for SAR: Aluminum, Ceramic, 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.

1.12 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2604100032-18.BCG
RF Exposure Part 2 Cellular Test Report	1C2604100032-20.BCG
RF Exposure Compliance Summary Report	1C2604100032-21.BCG

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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 - 713.3 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)				
Channel Bandwidths	LTE Band 41 (2498.5 - 2687.5 MHz)				
	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				
Channel Numbers and Frequencies (MHz)	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	Low	Low-Mid	Mid	Mid-High	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				
EN-DC Carrier Aggregation Possible Combinations	Not Supported				

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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.

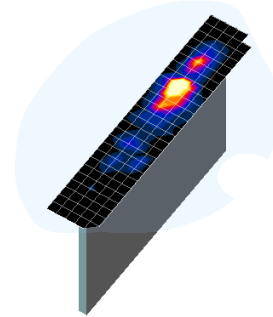


Figure 4-1
Sample SAR Area Scan

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

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

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.

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- 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.
- 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.

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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.

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.

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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 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.

8.1.1

LTE Band 71

Table 8-1

LTE Band 71 Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 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	24.71	0	0
	1	50	24.72		0
	1	99	24.78		0
	50	0	23.82	0-1	1
	50	25	23.83		1
	50	50	23.81		1
	100	0	23.80		1
	15	0	24.75	0-1	0
	15	42	24.76		0
	15	85	24.74		0
	27	0	23.81	0-2	1
	27	37	23.79		1
	27	73	23.78		1
16QAM	1	0	23.67	0-2	1
	1	50	23.75		1
	1	99	23.83		1
	15	0	23.74	0-3	1
	15	42	23.85		1
	15	85	23.77		1
	27	0	22.63	0-5	2
	27	37	22.71		2
	27	73	22.76		2

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8.1.2

LTE Band 12

Table 8-2

LTE Band 12 Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 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	24.60	0	0
	1	25	24.62		0
	1	49	24.68		0
	25	0	23.78	0-1	1
	25	12	23.76		1
	25	25	23.74		1
	50	0	23.74		1
	15	0	23.72	0-1	1
	15	17	23.73		1
	15	35	23.69		1
	27	0	23.66	0-2	1
	27	12	23.70		1
	27	23	23.71		1
16QAM	1	0	23.12	0-2	1
	1	25	23.66		1
	1	49	23.44		1
	25	0	22.08	0-3	2
	25	12	22.06		2
	25	25	22.25		2
	15	0	22.16	0-5	2
	15	17	22.05		2
	15	35	22.12		2
	27	0	22.49		2
	27	12	22.43		2
	27	23	22.07		2

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8.1.3

LTE Band 13

Table 8-3

LTE Band 13 Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 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	24.69	0	0
	1	25	24.70		0
	1	49	24.69		0
	25	0	23.72	0-1	1
	25	12	23.73		1
	25	25	23.76		1
	50	0	23.74		1
	15	0	23.75	0-1	1
	15	17	23.74		1
	15	35	23.75		1
	27	0	23.70	0-2	1
	27	12	23.69		1
	27	23	23.73		1
16QAM	1	0	23.41	0-2	1
	1	25	23.07		1
	1	49	23.21		1
	25	0	22.41	0-3	2
	25	12	22.14		2
	25	25	22.36		2
	15	0	22.58	0-5	2
	15	17	22.44		2
	15	35	22.05		2
	27	0	22.14		2
	27	12	22.36		2
	27	23	22.16		2

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8.1.4

LTE Band 14

Table 8-4

LTE Band 14 Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 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	24.25	0	0
	1	25	24.27		0
	1	49	24.29		0
	25	0	23.80	0-1	1
	25	12	23.80		1
	25	25	23.84		1
	50	0	23.83		1
	15	0	23.77	0-1	1
	15	17	23.78		1
	15	35	23.76		1
	27	0	23.79	0-2	1
	27	12	23.78		1
	27	23	23.79		1
16QAM	1	0	23.57	0-2	1
	1	25	23.44		1
	1	49	23.60		1
	25	0	22.66	0-3	2
	25	12	22.60		2
	25	25	22.75		2
	15	0	22.35	0-5	2
	15	17	22.52		2
	15	35	22.47		2
	27	0	22.50		2
	27	12	22.46		2
	27	23	22.37		2

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8.1.5

LTE Band 26

Table 8-5

LTE Band 26 (Cell) Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 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	24.68	24.70	24.68	0	0
	1	25	24.86	24.74	24.64		0
	1	49	24.81	24.77	24.67		0
	25	0	23.83	23.87	23.85	0-1	1
	25	12	23.87	23.87	23.81		1
	25	25	23.89	23.88	23.82		1
	50	0	23.87	23.86	23.71	0-1	1
	15	0	23.27	23.26	23.46		1
	15	17	23.42	23.19	23.21		1
	15	35	23.40	23.14	23.32	0-2	1
	27	0	23.36	23.08	23.19		1
	27	12	23.11	23.38	23.21		1
27	23	23.20	23.06	23.30	1		
16QAM	1	0	23.26	23.20	23.19	0-2	1
	1	25	23.29	23.21	23.24		1
	1	49	23.31	23.19	23.21		1
	25	0	22.18	22.22	22.18	0-3	2
	25	12	22.17	22.28	22.17		2
	25	25	22.20	22.27	22.14		2
	15	0	22.15	22.19	22.17	0-5	2
	15	17	22.43	22.12	22.18		2
	15	35	22.41	22.17	22.28		2
	27	0	22.29	22.20	22.22	0-5	2
	27	12	22.38	22.25	22.19		2
	27	23	22.30	22.10	22.21		2

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8.1.6

LTE Band 5

Table 8-6

LTE Band 5 (Cell) Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 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	24.24	0	0
	1	25	24.20		0
	1	49	24.23		0
	25	0	23.81	0-1	1
	25	12	23.78		1
	25	25	23.79		1
	50	0	23.80		1
	15	0	24.17	0-1	0
	15	17	24.14		0
	15	35	24.16		0
	27	0	23.76	0-2	1
	27	12	23.74		1
	27	23	23.74		1
16QAM	1	0	23.10	0-2	1
	1	25	23.21		1
	1	49	23.15		1
	25	0	23.16	0-3	1
	25	12	23.14		1
	25	25	23.19		1
	15	0	22.21	0-5	2
	15	17	22.19		2
	15	35	22.21		2
	27	0	22.16		2
	27	12	22.10		2
	27	23	22.09		2

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8.1.7

LTE Band 66

Table 8-7

LTE Band 66 (AWS) Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 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	24.49	24.56	24.40	0	0
	1	50	24.55	24.62	24.42		0
	1	99	24.44	24.59	24.39		0
	50	0	23.53	23.58	23.42	0-1	1
	50	25	23.55	23.61	23.43		1
	50	50	23.51	23.59	23.40		1
	100	0	23.54	23.60	23.44	0-1	1
	15	0	24.14	24.40	24.49		0
	15	42	24.41	24.39	24.34		0
	15	85	24.38	24.22	24.39	0-2	0
	27	0	23.28	23.60	23.44		1
	27	37	23.52	23.39	23.29		1
27	73	23.31	23.32	23.19		1	
16QAM	1	0	23.44	23.18	23.37	0-2	1
	1	50	23.40	23.08	23.46		1
	1	99	23.01	23.41	23.45		1
	15	0	23.57	23.22	23.43	0-3	1
	15	42	23.18	23.15	23.43		1
	15	85	23.55	23.07	23.60		1
	27	0	22.46	22.14	22.39	0-5	2
	27	37	21.98	22.59	22.25		2
27	73	22.13	22.34	22.10		2	

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8.1.8

LTE Band 25

Table 8-8

LTE Band 25 (PCS) Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 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	24.40	24.45	24.43	0	0
	1	50	24.43	24.52	24.45		0
	1	99	24.37	24.40	24.41		0
	50	0	23.35	23.47	23.38	0-1	1
	50	25	23.38	23.41	23.40		1
	50	50	23.33	23.43	23.35		1
	100	0	23.40	23.42	23.39	0-1	1
	15	0	23.92	23.83	24.45		0
	15	42	23.88	24.12	24.14		0
	15	85	24.46	23.91	24.32	0-2	0
	27	0	23.07	23.36	22.92		1
	27	37	23.25	22.94	22.92		1
27	73	23.22	23.38	23.45	1		
16QAM	1	0	23.12	22.98	22.98	0-2	1
	1	50	22.97	23.26	22.78		1
	1	99	23.43	23.29	22.78		1
	15	0	23.06	23.02	23.24	0-3	1
	15	42	23.20	22.88	23.44		1
	15	85	23.08	23.42	23.45		1
	27	0	22.18	22.08	22.06	0-5	2
	27	37	21.79	22.17	21.80		2
	27	73	21.88	21.93	22.40		2

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8.1.9

LTE Band 7

Table 8-9
LTE Band 7 Measured P_{Max} for ECI=0 (Extremity)- 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	24.35	24.09	24.26	0	0
	1	50	24.34	24.13	24.37		0
	1	99	24.14	24.16	24.15		0
	50	0	23.30	23.02	23.35	0-1	1
	50	25	23.05	23.32	23.39		1
	50	50	23.15	23.37	23.02		1
	100	0	23.25	23.34	23.36	1	
	15	0	24.33	24.17	24.02	0-1	0
	15	42	24.23	23.74	24.16		0
	15	85	24.02	23.88	23.74		0
	27	0	23.29	23.19	22.87	0-2	1
	27	37	23.04	22.98	23.05		1
27	73	22.99	23.26	23.12	1		
16QAM	1	0	22.88	22.78	22.82	0-2	1
	1	50	22.81	22.91	22.90		1
	1	99	22.91	23.26	22.83		1
	15	0	22.82	22.88	22.78	0-3	1
	15	42	22.85	22.96	23.26		1
	15	85	23.36	23.18	23.15		1
	27	0	21.88	22.24	22.02	0-5	2
	27	37	22.02	22.32	22.16		2
27	73	22.17	21.89	21.84	2		

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8.1.1

LTE Band 7 Reduced

Table 8-10

LTE Band 7 Reduced Measured P_{Lim} for ECI=1 (Head)- 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	23.16	23.10	23.31	0	0
	1	50	23.26	23.27	23.32		0
	1	99	23.23	23.13	23.25		0
	50	0	23.15	23.23	23.26	0-1	0
	50	25	23.25	23.26	23.27		0
	50	50	23.22	23.24	23.22		0
	100	0	23.14	23.10	23.24	0	
	15	0	22.81	22.55	22.58	0-1	0
	15	42	22.78	22.80	22.72		0
	15	85	22.70	23.07	22.71		0
	27	0	23.21	22.91	22.96	0-2	0
	27	37	23.13	23.09	23.18		0
27	73	23.03	23.04	23.03	0		
16QAM	1	0	22.84	22.72	23.01	0-2	0
	1	50	22.88	22.83	22.80		0
	1	99	23.18	22.69	22.72		0
	15	0	22.89	22.91	22.84	0-3	0
	15	42	23.03	22.91	22.90		0
	15	85	23.11	23.01	22.97		0
	27	0	22.09	22.05	22.06	0-5	0.5
	27	37	22.70	22.28	22.49		0.5
27	73	22.20	22.09	22.34	0.5		

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8.1.2

LTE Band 41

Table 8-11

LTE Band 41 Measured P_{Max} for ECI=1 (Head) and ECI=0 (Extremity)- 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.37	24.34	24.20	24.25	24.24	0	0
	1	50	24.56	24.37	24.25	24.33	24.32		0
	1	99	24.49	24.33	24.17	24.20	24.10		0
	50	0	23.49	23.38	23.28	23.30	23.26	0-1	1
	50	25	23.53	23.41	23.30	23.33	23.28		1
	50	50	23.48	23.35	23.25	23.29	23.23		1
	100	0	23.50	23.40	23.14	23.25	23.24	0-1	1
	15	0	23.87	24.42	23.95	24.07	24.31		0
	15	42	24.45	24.47	24.16	24.03	24.47		0
	15	85	23.98	24.28	24.08	23.91	24.15	0-2	0
	27	0	22.87	23.19	23.42	23.09	23.06		1
	27	37	23.36	23.45	22.95	23.47	22.95		1
16QAM	27	73	23.44	22.79	23.12	23.14	22.94	0-2	1
	1	0	22.87	22.91	23.15	23.17	22.80		1
	1	50	23.52	22.78	22.91	23.19	22.94		1
	1	99	22.87	23.10	22.92	22.89	22.87	0-3	1
	15	0	22.87	23.50	22.93	23.44	23.46		1
	15	42	22.79	22.91	23.10	23.43	23.51		1
	15	85	23.28	22.80	23.09	23.05	22.87	0-5	1
	27	0	22.03	21.80	22.06	22.49	22.29		2
	27	37	21.99	22.41	22.18	21.80	22.00		2
	27	73	22.08	22.44	22.34	21.88	22.06		2

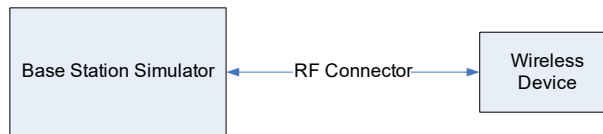


Figure 8-1
Power Measurement Setup

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8.2 NR Conducted Powers

Note: 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 for the group of overlapping channels should be selected for testing.

8.2.1 NR Band n71

Table 8-12
NR Band n71 Measured_{P_{max}} for ECI=1 (Head) and ECI=0 (Extremity) – 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	24.17	0	0.0
	1	53	24.10		0.0
	1	104	24.01		0.0
	50	0	23.13	0-1	1.0
	50	28	24.15	0	0.0
	50	56	23.08	0-1	1.0
	100	0	23.10		1.0
DFT-s-OFDM 16QAM	1	1	22.87	0-1	1.0
CP-OFDM QPSK	1	1	22.63	0-1.5	1.5

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8.2.2

NR Band n12

Table 8-13

NR Band n12 Measured_{P_{max}} for ECI=1 (Head) and ECI=0 (Extremity) – 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	24.03	0	0.0
	1	40	24.12		0.0
	1	77	24.15		0.0
	36	0	23.09	0-1	1.0
	36	22	24.09	0	0.0
	36	43	23.11	0-1	1.0
	75	0	23.18		1.0
DFT-s-OFDM 16QAM	1	1	22.78	0-1	1.0
CP-OFDM QPSK	1	1	22.60	0-1.5	1.5

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8.2.3

NR Band n14

Table 8-14

NR Band n14 Measured_{P_{max}} for ECI=1 (Head) and ECI=0 (Extremity) – 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	24.03	0	0.0
	1	26	23.95		0.0
	1	50	23.89		0.0
	25	0	23.10	0-1	1.0
	25	14	23.99	0	0.0
	25	27	22.96	0-1	1.0
	50	0	22.98		1.0
DFT-s-OFDM 16QAM	1	1	22.73	0-1	1.0
CP-OFDM QPSK	1	1	22.56	0-1.5	1.5

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8.2.4

NR Band n26

Table 8-15

NR Band n26 Measured_{P_{max}} for ECI=1 (Head) and ECI=0 (Extremity) – 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	24.54	0	0.0
	1	53	24.48		0.0
	1	104	24.40		0.0
	50	0	23.49	0-1	1.0
	50	28	24.45	0	0.0
	50	56	23.47	0-1	1.0
	100	0	23.46		1.0
DFT-s-OFDM 16QAM	1	1	23.18	0-1	1.0
CP-OFDM QPSK	1	1	22.95	0-1.5	1.5

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8.2.5

NR Band n5

Table 8-16

NR Band n5 Measured P_{max} for ECI=1 (Head) and ECI=0 (Extremity) – 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	24.50	0	0.0
	1	53	24.40		0.0
	1	104	24.47		0.0
	50	0	23.46	0-1	1.0
	50	28	24.45	0	0.0
	50	56	23.46	0-1	1.0
	100	0	23.48		1.0
DFT-s-OFDM 16QAM	1	1	23.18	0-1	1.0
CP-OFDM QPSK	1	1	22.92	0-1.5	1.5

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8.2.6

NR Band n66

Table 8-17

NR Band n66 Measured_{P_{max}} for ECI=1 (Head) and ECI=0 (Extremity) – 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	24.47	24.52	24.41	0	0.0
	1	53	24.41	24.44	24.40		0.0
	1	104	24.42	24.35	24.29		0.0
	50	0	23.51	23.44	23.42	0-1	1.0
	50	28	24.14	24.40	24.10	0	0.0
	50	56	23.45	23.43	23.32	0-1	1.0
	100	0	23.46	23.49	23.35		1.0
DFT-s-OFDM 16QAM	1	1	23.25	23.28	23.22	0-1	1.0
CP-OFDM QPSK	1	1	22.95	22.98	22.91	0-1.5	1.5

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8.2.7

NR Band n25

Table 8-18

NR Band n25 Measured_{P_{max}} for ECI=1 (Head) and ECI=0 (Extremity) – 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	24.31	24.35	24.32	0	0.0
	1	53	24.24	24.28	24.23		0.0
	1	104	24.26	24.24	24.27		0.0
	50	0	23.26	23.30	23.20	0-1	1.0
	50	28	24.29	24.32	24.31	0	0.0
	50	56	23.30	23.31	23.22	0-1	1.0
	100	0	23.26	23.28	23.23		1.0
DFT-s-OFDM 16QAM	1	1	23.15	23.07	23.01	0-1	1.0
CP-OFDM QPSK	1	1	22.65	22.73	22.70	0-1.5	1.5

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8.2.8

NR Band n7

Table 8-19
NR Band n7 Measured_{P_{max}} for ECI=0 (Extremity)– 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	24.25	24.29	24.21	0	0.0
	1	53	24.42	24.39	24.45		0.0
	1	104	24.19	24.27	24.28		0.0
	50	0	23.39	23.25	23.38	0-1	1.0
	50	28	24.56	24.44	24.60	0	0.0
	50	56	23.50	23.53	23.55	0-1	1.0
	100	0	23.51	23.40	23.43		1.0
DFT-s-OFDM 16QAM	1	1	23.07	22.99	22.92	0-1	1.0
CP-OFDM QPSK	1	1	22.82	22.75	22.85	0-1.5	1.5

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8.2.9

NR Band n7 Reduced

Table 8-20
NR Band n7 Reduced Measured_{Plim} for ECI=1 (Head)– 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	23.27	23.23	23.20	0	0.0
	1	53	23.42	23.32	23.31		0.0
	1	104	23.41	23.31	23.30		0.0
	50	0	23.34	23.20	23.18	0-1	0.0
	50	28	23.38	23.32	23.30	0	0.0
	50	56	23.32	23.27	23.18	0-1	0.0
	100	0	23.35	23.21	23.16		0.0
DFT-s-OFDM 16QAM	1	1	23.14	22.95	22.90	0-1	0.0
CP-OFDM QPSK	1	1	22.80	22.78	22.68	0-1.5	0.4

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8.2.10

NR Band n41

Table 8-21
NR Band n41 Measured_{pmax} for ECI=0 (Extremity)– 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	24.56	24.34	24.47	24.22	24.24	0	0.0
	1	26	24.58	24.38	24.45	24.18	24.28		0.0
	1	49	24.45	24.41	24.38	24.15	24.23		0.0
	25	0	23.58	23.53	23.52	23.28	23.31	0-1	1.0
	25	13	24.62	24.40	24.58	24.26	24.18	0	0.0
	25	26	23.53	23.40	23.44	23.25	23.30	0-1	1.0
	50	0	23.54	23.39	23.38	23.23	23.25		1.0
DFT-s-OFDM 16QAM	1	1	23.39	23.08	23.27	23.02	23.05	0-1	1.0
CP-OFDM QPSK	1	1	23.04	22.84	23.00	22.70	22.81	0-1.5	1.5

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8.2.11

NR Band n41 Reduced

Table 8-22

NR Band n41 Reduced Measured_{Plim} for ECI=1 (Head)– 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	23.29	23.14	23.11	22.98	22.98	0	0.0
	1	26	23.35	23.25	23.20	23.04	23.03		0.0
	1	49	23.15	23.20	23.09	22.98	22.87		0.0
	25	0	23.33	23.23	23.20	23.08	23.04	0-1	0.0
	25	13	23.45	23.28	23.24	23.10	23.10	0	0.0
	25	26	23.28	23.27	23.22	23.03	23.07	0-1	0.0
	50	0	23.31	23.14	23.21	22.88	23.04		0.0
DFT-s-OFDM 16QAM	1	1	23.04	22.97	22.99	22.84	22.82	0-1	0.0
CP-OFDM QPSK	1	1	22.99	22.85	22.98	22.74	22.78	0-1.5	0.0

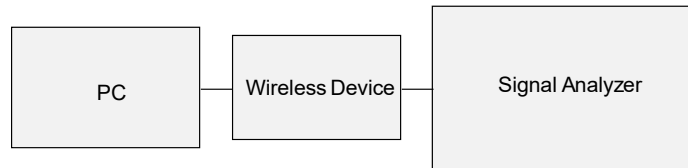


Figure 8-2
Power Measurement Setup

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8.3 WLAN Conducted Powers

Table 8-23
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	Conducted Power [dBm]	Freq. [MHz]	Channel	Conducted Power [dBm]	Freq. [MHz]	Channel	Conducted Power [dBm]
2412	1	17.99	2417	2	16.46	2417	2	16.42
2437	6	17.68	2437	6	16.32	2437	6	16.29
2462	11	17.87	2457	10	16.39	2457	10	16.35

Table 8-24
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	15.99	UNII-1	5180	36	15.89
	5200	40	16.01		5200	40	15.83
	5220	44	15.97		5220	44	15.95
	5240	48	15.91		5240	48	15.67
UNII-2A	5260	52	16.07	UNII-2A	5260	52	15.91
	5280	56	15.93		5280	56	15.86
	5300	60	16.31		5300	60	16.06
	5320	64	16.07		5320	64	16.02
UNII-2C	5500	100	16.19	UNII-2C	5500	100	16.07
	5600	120	16.27		5600	120	16.19
	5620	124	16.10		5620	124	15.95
	5720	144	16.33		5720	144	16.22
UNII-3	5745	149	16.18	UNII-3	5745	149	16.08
	5785	157	16.09		5785	157	16.05
	5825	165	16.04		5825	165	15.99

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.

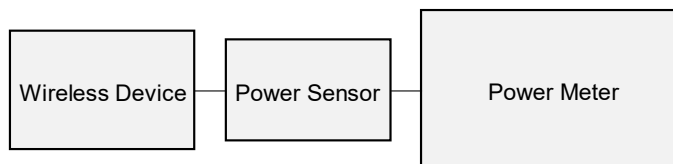


Figure 8-3
Power Measurement Setup

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8.4 Bluetooth Conducted Powers

Table 8-25
Bluetooth Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	16.41	43.752
2441	GFSK	1.0	39	16.49	44.566
2480	GFSK	1.0	78	16.35	43.152

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

Table 8-26
Bluetooth Reduced Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.61	18.239
2441	GFSK	1.0	39	12.72	18.707
2480	GFSK	1.0	78	12.54	17.947

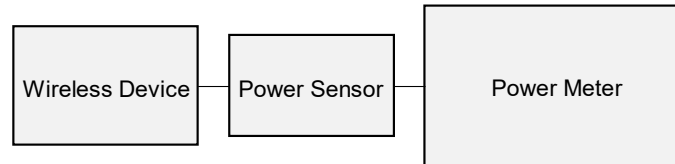


Figure 8-4
Power Measurement Setup

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8.5 802.15.4 ab-NB Conducted Powers

Table 8-27
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	15.91	38.994
5786.25	O-QPSK	1.0	Mid	15.93	39.174
5846.25	O-QPSK	1.0	High	15.89	38.815

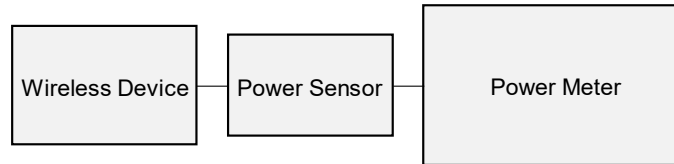
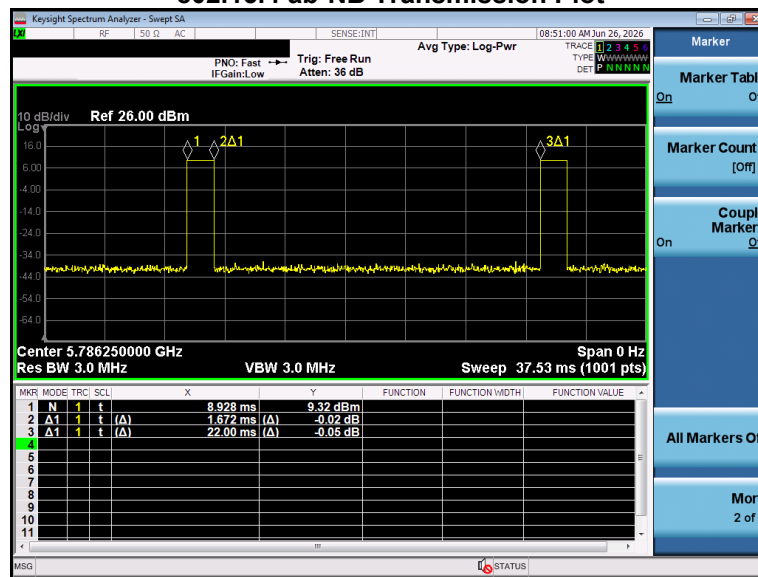


Figure 8-5
Power Measurement Setup

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

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{1.67 \text{ ms}}{22.00 \text{ ms}} * 100\% = 7.60\%$$

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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
7/11/2026	30 Head	24.9	13	0.756	52.373	0.750	55.000	0.80%	-4.78%
			14	0.756	52.344	0.750	55.000	0.80%	-4.83%
6/20/2026	750 Head	24.9	680	0.876	40.447	0.888	42.305	-1.35%	-4.39%
			695	0.882	40.393	0.889	42.227	-0.79%	-4.34%
			700	0.884	40.370	0.889	42.201	-0.56%	-4.34%
			710	0.888	40.321	0.890	42.149	-0.22%	-4.34%
			725	0.892	40.236	0.891	42.071	0.11%	-4.36%
			750	0.898	40.098	0.894	41.942	0.45%	-4.40%
			770	0.904	40.017	0.895	41.838	1.01%	-4.35%
			785	0.909	39.982	0.896	41.760	1.45%	-4.26%
			800	0.914	39.951	0.897	41.682	1.90%	-4.15%
			680	0.885	40.373	0.888	42.305	-0.34%	-4.57%
6/22/2026	750 Head	24.0	695	0.891	40.343	0.889	42.227	0.22%	-4.46%
			700	0.893	40.332	0.889	42.201	0.45%	-4.43%
			710	0.896	40.305	0.890	42.149	0.67%	-4.37%
			725	0.900	40.257	0.891	42.071	1.01%	-4.31%
			750	0.904	40.169	0.894	41.942	1.12%	-4.23%
			770	0.909	40.086	0.895	41.838	1.56%	-4.19%
			785	0.915	40.024	0.896	41.760	2.12%	-4.16%
			800	0.922	39.977	0.897	41.682	2.79%	-4.09%
6/26/2026	750 Head	24.9	680	0.893	40.571	0.888	42.305	0.56%	-4.10%
			695	0.898	40.542	0.889	42.227	1.01%	-3.99%
			700	0.899	40.540	0.889	42.201	1.12%	-3.94%
			710	0.903	40.537	0.890	42.149	1.46%	-3.82%
			725	0.908	40.528	0.891	42.071	1.91%	-3.67%
			750	0.916	40.459	0.894	41.942	2.46%	-3.54%
			770	0.921	40.349	0.895	41.838	2.91%	-3.56%
			785	0.926	40.262	0.896	41.760	3.35%	-3.59%
6/28/2026	750 Head	24.9	800	0.931	40.192	0.897	41.682	3.79%	-3.57%
			680	0.901	40.605	0.888	42.305	1.46%	-4.02%
			695	0.907	40.586	0.889	42.227	2.02%	-3.89%
			700	0.909	40.577	0.889	42.201	2.25%	-3.85%
			710	0.912	40.549	0.890	42.149	2.47%	-3.80%
			725	0.916	40.485	0.891	42.071	2.81%	-3.77%
			750	0.921	40.322	0.894	41.942	3.02%	-3.86%
			770	0.926	40.196	0.895	41.838	3.46%	-3.92%
			785	0.931	40.139	0.896	41.760	3.91%	-3.88%
			800	0.938	40.121	0.897	41.682	4.57%	-3.75%

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6/30/2026	750 Head	24.9	680	0.900	40.464	0.888	42.305	1.35%	-4.35%
			695	0.905	40.475	0.889	42.227	1.80%	-4.15%
			700	0.907	40.483	0.889	42.201	2.02%	-4.07%
			710	0.910	40.493	0.890	42.149	2.25%	-3.93%
			725	0.914	40.472	0.891	42.071	2.58%	-3.80%
			750	0.919	40.299	0.894	41.942	2.80%	-3.92%
			770	0.926	40.103	0.895	41.838	3.46%	-4.15%
			785	0.934	39.998	0.896	41.760	4.24%	-4.22%
7/12/2026	750 Head	24.9	680	0.865	40.843	0.888	42.305	-2.59%	-3.46%
			695	0.870	40.809	0.889	42.227	-2.14%	-3.36%
			700	0.872	40.796	0.889	42.201	-1.91%	-3.33%
			710	0.875	40.762	0.890	42.149	-1.69%	-3.29%
			725	0.880	40.693	0.891	42.071	-1.23%	-3.28%
			750	0.886	40.566	0.894	41.942	-0.89%	-3.28%
			770	0.892	40.482	0.895	41.838	-0.34%	-3.24%
			785	0.898	40.443	0.896	41.760	0.22%	-3.15%
7/14/2026	750 Head	24.9	800	0.903	40.422	0.897	41.682	0.67%	-3.02%
			680	0.857	40.916	0.888	42.305	-3.49%	-3.28%
			695	0.862	40.890	0.889	42.227	-3.04%	-3.17%
			700	0.863	40.883	0.889	42.201	-2.92%	-3.12%
			710	0.866	40.867	0.890	42.149	-2.70%	-3.04%
			725	0.870	40.835	0.891	42.071	-2.36%	-2.94%
			750	0.876	40.745	0.894	41.942	-2.01%	-2.85%
			770	0.880	40.647	0.895	41.838	-1.68%	-2.85%
7/15/2026	750 Head	24.9	785	0.885	40.587	0.896	41.760	-1.23%	-2.81%
			800	0.890	40.552	0.897	41.682	-0.78%	-2.71%
			680	0.886	40.308	0.888	42.305	-0.23%	-4.72%
			695	0.891	40.268	0.889	42.227	0.22%	-4.64%
			700	0.893	40.256	0.889	42.201	0.45%	-4.61%
			710	0.896	40.236	0.890	42.149	0.67%	-4.54%
			725	0.900	40.206	0.891	42.071	1.01%	-4.43%
			750	0.906	40.138	0.894	41.942	1.34%	-4.30%
6/21/2026	835 Head	24.9	770	0.911	40.066	0.895	41.838	1.79%	-4.24%
			785	0.916	40.018	0.896	41.760	2.23%	-4.17%
			800	0.921	39.985	0.897	41.682	2.68%	-4.07%
6/24/2026	835 Head	24.9	815	0.878	41.004	0.898	41.594	-2.23%	-1.42%
			820	0.879	40.995	0.899	41.578	-2.22%	-1.40%
			835	0.883	40.963	0.900	41.500	-1.89%	-1.29%
6/25/2026	835 Head	24.9	850	0.887	40.926	0.916	41.500	-3.17%	-1.38%
			815	0.867	40.352	0.898	41.594	-3.45%	-2.99%
			820	0.869	40.346	0.899	41.578	-3.34%	-2.96%
7/24/2026	835 Head	24.9	835	0.876	40.332	0.900	41.500	-2.67%	-2.81%
			850	0.881	40.310	0.916	41.500	-3.82%	-2.87%
			815	0.872	40.022	0.898	41.594	-2.90%	-3.78%
6/18/2026	1750 Head	21.0	820	0.874	40.017	0.899	41.578	-2.78%	-3.75%
			835	0.878	40.009	0.900	41.500	-2.44%	-3.59%
			850	0.883	39.995	0.916	41.500	-3.60%	-3.63%
6/18/2026	1750 Head	21.0	815	0.863	41.000	0.898	41.594	-3.90%	-1.43%
			820	0.865	40.984	0.899	41.578	-3.78%	-1.43%
			835	0.870	40.938	0.900	41.500	-3.33%	-1.35%
			850	0.873	40.889	0.916	41.500	-4.69%	-1.47%
			1700	1.304	40.040	1.343	40.145	-2.90%	-0.26%
			1705	1.306	40.037	1.345	40.141	-2.90%	-0.26%
			1710	1.309	40.033	1.348	40.136	-2.89%	-0.26%
6/18/2026	1750 Head	21.0	1720	1.314	40.021	1.354	40.126	-2.95%	-0.26%
			1745	1.327	39.963	1.368	40.087	-3.00%	-0.31%
			1750	1.330	39.949	1.371	40.079	-2.99%	-0.32%
			1770	1.342	39.894	1.383	40.047	-2.96%	-0.38%
			1790	1.354	39.852	1.394	40.016	-2.87%	-0.41%

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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
6/20/2026	1750 Head	21.4	1700	1.281	39.151	1.343	40.145	-4.62%	-2.48%
			1705	1.284	39.143	1.345	40.141	-4.54%	-2.49%
			1710	1.287	39.135	1.348	40.136	-4.53%	-2.49%
			1720	1.293	39.124	1.354	40.126	-4.51%	-2.50%
			1745	1.306	39.090	1.368	40.087	-4.53%	-2.49%
			1750	1.309	39.079	1.371	40.079	-4.52%	-2.50%
			1770	1.320	39.038	1.383	40.047	-4.56%	-2.52%
			1790	1.333	39.002	1.394	40.016	-4.38%	-2.53%
7/1/2026	1750 Head	22.8	1700	1.291	40.349	1.343	40.145	-3.87%	0.51%
			1705	1.293	40.346	1.345	40.141	-3.87%	0.51%
			1710	1.296	40.343	1.348	40.136	-3.86%	0.52%
			1720	1.300	40.335	1.354	40.126	-3.99%	0.52%
			1745	1.312	40.287	1.368	40.087	-4.09%	0.50%
			1750	1.315	40.275	1.371	40.079	-4.08%	0.49%
			1770	1.328	40.229	1.383	40.047	-3.98%	0.45%
			1790	1.339	40.199	1.394	40.016	-3.95%	0.46%
6/24/2026	1900 Head	21.5	1850	1.376	38.917	1.400	40.000	-1.71%	-2.71%
			1860	1.386	38.879	1.400	40.000	-1.00%	-2.80%
			1880	1.406	38.805	1.400	40.000	0.43%	-2.99%
			1900	1.425	38.724	1.400	40.000	1.79%	-3.19%
			1905	1.430	38.701	1.400	40.000	2.14%	-3.25%
			1910	1.435	38.679	1.400	40.000	2.50%	-3.30%
			1920	1.446	38.635	1.400	40.000	3.29%	-3.41%
			1850	1.362	38.706	1.400	40.000	-2.71%	-3.23%
6/26/2026	1900 Head	22.0	1860	1.373	38.656	1.400	40.000	-1.93%	-3.36%
			1880	1.393	38.565	1.400	40.000	-0.50%	-3.59%
			1900	1.415	38.482	1.400	40.000	1.07%	-3.80%
			1905	1.420	38.463	1.400	40.000	1.43%	-3.84%
			1910	1.425	38.444	1.400	40.000	1.79%	-3.89%
			1920	1.435	38.406	1.400	40.000	2.50%	-3.99%
			1850	1.385	39.903	1.400	40.000	-1.07%	-0.24%
			1860	1.396	39.845	1.400	40.000	-0.29%	-0.39%
6/29/2026	1900 Head	22.0	1880	1.417	39.742	1.400	40.000	1.21%	-0.65%
			1900	1.440	39.665	1.400	40.000	2.86%	-0.84%
			1905	1.446	39.646	1.400	40.000	3.29%	-0.88%
			1910	1.451	39.628	1.400	40.000	3.64%	-0.93%
			1920	1.461	39.590	1.400	40.000	4.36%	-1.02%
			2300	1.696	38.762	1.670	39.500	1.56%	-1.87%
			2310	1.708	38.727	1.679	39.480	1.73%	-1.91%
			2320	1.719	38.691	1.687	39.460	1.90%	-1.95%
6/16/2026	2450 Head	24.6	2400	1.808	38.347	1.756	39.289	2.96%	-2.40%
			2450	1.863	38.174	1.800	39.200	3.50%	-2.62%
			2480	1.895	38.023	1.833	39.162	3.38%	-2.91%
			2500	1.920	37.926	1.855	39.136	3.50%	-3.09%
			2510	1.933	37.888	1.866	39.123	3.59%	-3.16%
			2535	1.962	37.801	1.893	39.092	3.65%	-3.30%
			2550	1.978	37.745	1.909	39.073	3.61%	-3.40%
			2560	1.988	37.702	1.920	39.060	3.54%	-3.48%
			2600	2.034	37.502	1.964	39.009	3.56%	-3.86%
			2650	2.093	37.315	2.018	38.945	3.72%	-4.19%
			2680	2.124	37.183	2.051	38.907	3.56%	-4.43%
			2700	2.148	37.082	2.073	38.882	3.62%	-4.63%
			2300	1.688	39.603	1.670	39.500	1.08%	0.26%
			2310	1.696	39.596	1.679	39.480	1.01%	0.29%
			2320	1.704	39.592	1.687	39.460	1.01%	0.33%
			2400	1.766	39.467	1.756	39.289	0.57%	0.45%
6/20/2026	2450 Head	20.7	2450	1.807	39.408	1.800	39.200	0.39%	0.53%
			2480	1.828	39.345	1.833	39.162	-0.27%	0.47%
			2500	1.844	39.294	1.855	39.136	-0.59%	0.40%
			2510	1.853	39.275	1.866	39.123	-0.70%	0.39%
			2535	1.874	39.235	1.893	39.092	-1.00%	0.37%
			2550	1.887	39.214	1.909	39.073	-1.15%	0.36%
			2560	1.894	39.200	1.920	39.060	-1.35%	0.36%
			2600	1.925	39.118	1.964	39.009	-1.99%	0.28%
			2650	1.966	39.040	2.018	38.945	-2.58%	0.24%
			2680	1.989	38.992	2.051	38.907	-3.02%	0.22%
			2700	2.006	38.948	2.073	38.882	-3.23%	0.17%

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6/22/2026	2450 Head	19.0	2300	1.664	38.491	1.670	39.500	-0.36%	-2.55%
			2310	1.673	38.483	1.679	39.480	-0.36%	-2.53%
			2320	1.681	38.476	1.687	39.460	-0.36%	-2.49%
			2400	1.741	38.355	1.756	39.289	-0.85%	-2.38%
			2450	1.782	38.289	1.800	39.200	-1.00%	-2.32%
			2480	1.804	38.232	1.833	39.162	-1.58%	-2.37%
			2500	1.821	38.188	1.855	39.136	-1.83%	-2.42%
			2510	1.829	38.172	1.866	39.123	-1.98%	-2.43%
			2535	1.852	38.124	1.893	39.092	-2.17%	-2.48%
			2550	1.864	38.101	1.909	39.073	-2.36%	-2.49%
			2560	1.872	38.087	1.920	39.060	-2.50%	-2.49%
			2600	1.904	38.012	1.964	39.009	-3.05%	-2.56%
			2650	1.949	37.907	2.018	38.945	-3.42%	-2.67%
			2680	1.973	37.851	2.051	38.907	-3.80%	-2.71%
			2700	1.989	37.810	2.073	38.882	-4.05%	-2.76%
			2300	1.731	39.958	1.670	39.500	3.65%	1.16%
6/23/2026	2450 Head	19.0	2310	1.739	39.942	1.679	39.480	3.57%	1.17%
			2320	1.747	39.923	1.687	39.460	3.56%	1.17%
			2400	1.813	39.809	1.756	39.289	3.25%	1.32%
			2450	1.856	39.716	1.800	39.200	3.11%	1.32%
			2480	1.879	39.668	1.833	39.162	2.51%	1.29%
			2500	1.896	39.623	1.855	39.136	2.21%	1.24%
			2510	1.905	39.599	1.866	39.123	2.09%	1.22%
			2535	1.927	39.560	1.893	39.092	1.80%	1.20%
			2550	1.938	39.537	1.909	39.073	1.52%	1.19%
			2560	1.946	39.517	1.920	39.060	1.35%	1.17%
			2600	1.982	39.438	1.964	39.009	0.92%	1.10%
			2650	2.028	39.354	2.018	38.945	0.50%	1.05%
			2680	2.054	39.293	2.051	38.907	0.15%	0.99%
			2700	2.071	39.254	2.073	38.882	-0.10%	0.96%
			2300	1.672	38.276	1.670	39.500	0.12%	-3.10%
			2310	1.680	38.261	1.679	39.480	0.06%	-3.09%
			2320	1.688	38.246	1.687	39.460	0.06%	-3.08%
6/25/2026	2450 Head	20.3	2400	1.746	38.108	1.756	39.289	-0.57%	-3.01%
			2450	1.783	38.019	1.800	39.200	-0.94%	-3.01%
			2480	1.806	37.969	1.833	39.162	-1.47%	-3.05%
			2500	1.821	37.941	1.855	39.136	-1.83%	-3.05%
			2510	1.826	37.919	1.866	39.123	-2.14%	-3.08%
			2535	1.846	37.871	1.893	39.092	-2.48%	-3.12%
			2550	1.859	37.844	1.909	39.073	-2.62%	-3.15%
			2560	1.867	37.823	1.920	39.060	-2.76%	-3.17%
			2600	1.897	37.764	1.964	39.009	-3.41%	-3.19%
			2650	1.938	37.672	2.018	38.945	-3.96%	-3.27%
			2680	1.961	37.622	2.051	38.907	-4.39%	-3.30%
			2700	1.974	37.592	2.073	38.882	-4.78%	-3.32%
			2300	1.654	39.428	1.670	39.500	-0.96%	-0.18%
			2310	1.662	39.414	1.679	39.480	-1.01%	-0.17%
			2320	1.670	39.401	1.687	39.460	-1.01%	-0.15%
			2400	1.733	39.258	1.756	39.289	-1.31%	-0.08%
			2450	1.774	39.199	1.800	39.200	-1.44%	0.00%
6/27/2026	2450 Head	20.8	2480	1.796	39.141	1.833	39.162	-2.02%	-0.05%
			2500	1.813	39.096	1.855	39.136	-2.26%	-0.10%
			2510	1.821	39.078	1.866	39.123	-2.41%	-0.12%
			2535	1.843	39.041	1.893	39.092	-2.64%	-0.13%
			2550	1.855	39.026	1.909	39.073	-2.83%	-0.12%
			2560	1.863	39.015	1.920	39.060	-2.97%	-0.12%
			2600	1.897	38.933	1.964	39.009	-3.41%	-0.19%
			2650	1.942	38.846	2.018	38.945	-3.77%	-0.25%
			2680	1.966	38.800	2.051	38.907	-4.14%	-0.28%
			2700	1.984	38.752	2.073	38.882	-4.29%	-0.33%
			2300	1.653	38.084	1.670	39.500	-1.02%	-3.58%
			2310	1.662	38.071	1.679	39.480	-1.01%	-3.57%
			2320	1.670	38.061	1.687	39.460	-1.01%	-3.55%
			2400	1.730	37.923	1.756	39.289	-1.48%	-3.48%
			2450	1.772	37.864	1.800	39.200	-1.56%	-3.41%
			2480	1.794	37.833	1.833	39.162	-2.13%	-3.39%
			2500	1.810	37.794	1.855	39.136	-2.43%	-3.43%
7/1/2026	2450 Head	19.0	2510	1.819	37.770	1.866	39.123	-2.52%	-3.46%
			2535	1.843	37.717	1.893	39.092	-2.64%	-3.52%
			2550	1.856	37.703	1.909	39.073	-2.78%	-3.51%
			2560	1.865	37.696	1.920	39.060	-2.86%	-3.49%
			2600	1.899	37.630	1.964	39.009	-3.31%	-3.54%
			2650	1.944	37.518	2.018	38.945	-3.67%	-3.66%
			2680	1.971	37.472	2.051	38.907	-3.90%	-3.69%
			2700	1.987	37.426	2.073	38.882	-4.15%	-3.74%

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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
6/12/2026	5200-5800 Head	19.0	5150	4.556	37.502	4.608	36.050	-1.13%	4.03%
			5160	4.569	37.490	4.618	36.040	-1.06%	4.02%
			5170	4.582	37.468	4.629	36.030	-1.02%	3.99%
			5180	4.597	37.434	4.635	36.009	-0.82%	3.96%
			5190	4.612	37.411	4.645	35.998	-0.71%	3.93%
			5200	4.626	37.402	4.655	35.986	-0.62%	3.93%
			5210	4.636	37.397	4.666	35.975	-0.64%	3.95%
			5220	4.643	37.382	4.676	35.963	-0.71%	3.95%
			5240	4.666	37.336	4.696	35.940	-0.64%	3.88%
			5250	4.680	37.318	4.706	35.929	-0.55%	3.87%
			5260	4.694	37.300	4.717	35.917	-0.49%	3.85%
			5270	4.705	37.280	4.727	35.906	-0.47%	3.83%
			5280	4.718	37.252	4.737	35.894	-0.40%	3.78%
			5290	4.732	37.231	4.748	35.883	-0.34%	3.76%
			5300	4.748	37.217	4.758	35.871	-0.21%	3.75%
			5310	4.763	37.204	4.768	35.860	-0.10%	3.75%
			5320	4.776	37.182	4.778	35.849	-0.04%	3.72%
			5500	4.990	36.850	4.963	35.643	0.54%	3.39%
			5510	5.003	36.837	4.973	35.632	0.60%	3.38%
			5520	5.015	36.821	4.983	35.620	0.64%	3.37%
			5530	5.026	36.804	4.994	35.609	0.64%	3.36%
			5540	5.036	36.781	5.004	35.597	0.64%	3.33%
			5550	5.048	36.767	5.014	35.586	0.68%	3.32%
			5560	5.061	36.757	5.024	35.574	0.74%	3.33%
			5580	5.093	36.727	5.045	35.551	0.95%	3.31%
			5600	5.123	36.667	5.065	35.529	1.15%	3.20%
			5610	5.135	36.651	5.076	35.518	1.16%	3.19%
			5620	5.147	36.639	5.086	35.506	1.20%	3.19%
			5640	5.169	36.591	5.106	35.483	1.23%	3.12%
			5660	5.189	36.553	5.127	35.460	1.21%	3.08%
			5670	5.202	36.547	5.137	35.449	1.27%	3.10%
			5680	5.216	36.533	5.147	35.437	1.34%	3.09%
			5690	5.229	36.511	5.158	35.426	1.38%	3.06%
			5700	5.245	36.484	5.168	35.414	1.49%	3.02%
			5710	5.263	36.465	5.178	35.403	1.64%	3.00%
			5720	5.278	36.447	5.188	35.391	1.73%	2.98%
			5745	5.302	36.398	5.214	35.363	1.69%	2.93%
			5750	5.306	36.389	5.219	35.357	1.67%	2.92%
			5755	5.311	36.381	5.224	35.351	1.67%	2.91%
			5765	5.321	36.368	5.234	35.340	1.66%	2.91%
			5775	5.332	36.358	5.245	35.329	1.66%	2.91%
			5785	5.345	36.345	5.255	35.317	1.71%	2.91%
			5795	5.359	36.322	5.265	35.305	1.79%	2.88%
			5800	5.366	36.315	5.270	35.300	1.82%	2.88%
			5805	5.374	36.300	5.275	35.294	1.88%	2.85%
			5825	5.404	36.262	5.296	35.271	2.04%	2.81%
			5835	5.418	36.239	5.305	35.230	2.13%	2.86%
			5845	5.431	36.214	5.315	35.210	2.18%	2.85%
			5850	5.438	36.204	5.320	35.200	2.22%	2.85%
			5855	5.444	36.197	5.325	35.197	2.23%	2.84%
			5865	5.454	36.191	5.336	35.190	2.21%	2.84%
			5875	5.464	36.184	5.347	35.183	2.19%	2.85%
			5885	5.477	36.173	5.357	35.177	2.24%	2.83%
			5905	5.498	36.124	5.379	35.163	2.21%	2.73%

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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
6/22/2026	5200-5800 Head	19.0	5150	4.393	35.290	4.608	36.050	-4.67%	-2.11%
			5160	4.404	35.276	4.618	36.040	-4.63%	-2.12%
			5170	4.417	35.245	4.629	36.030	-4.58%	-2.18%
			5180	4.431	35.205	4.635	36.009	-4.40%	-2.23%
			5190	4.445	35.174	4.645	35.998	-4.31%	-2.29%
			5200	4.459	35.160	4.655	35.986	-4.21%	-2.30%
			5210	4.468	35.143	4.666	35.975	-4.24%	-2.31%
			5220	4.478	35.122	4.676	35.963	-4.23%	-2.34%
			5240	4.502	35.094	4.696	35.940	-4.13%	-2.35%
			5250	4.513	35.091	4.706	35.929	-4.10%	-2.33%
			5260	4.524	35.080	4.717	35.917	-4.09%	-2.33%
			5270	4.535	35.063	4.727	35.906	-4.06%	-2.35%
			5280	4.545	35.038	4.737	35.894	-4.05%	-2.38%
			5290	4.557	35.008	4.748	35.883	-4.02%	-2.44%
			5300	4.568	34.982	4.758	35.871	-3.99%	-2.48%
			5310	4.580	34.962	4.768	35.860	-3.94%	-2.50%
			5320	4.592	34.944	4.778	35.849	-3.89%	-2.52%
			5500	4.794	34.589	4.963	35.643	-3.41%	-2.96%
			5510	4.808	34.579	4.973	35.632	-3.32%	-2.96%
			5520	4.818	34.572	4.983	35.620	-3.31%	-2.94%
			5530	4.825	34.556	4.994	35.609	-3.38%	-2.96%
			5540	4.833	34.540	5.004	35.597	-3.42%	-2.97%
			5550	4.841	34.523	5.014	35.586	-3.45%	-2.99%
			5560	4.849	34.509	5.024	35.574	-3.48%	-2.99%
			5580	4.877	34.465	5.045	35.551	-3.33%	-3.05%
			5600	4.907	34.396	5.065	35.529	-3.12%	-3.19%
			5610	4.921	34.375	5.076	35.518	-3.05%	-3.22%
			5620	4.934	34.358	5.086	35.506	-2.99%	-3.23%
			5640	4.956	34.333	5.106	35.483	-2.94%	-3.24%
			5660	4.972	34.323	5.127	35.460	-3.02%	-3.21%
			5670	4.979	34.313	5.137	35.449	-3.08%	-3.20%
			5680	4.990	34.301	5.147	35.437	-3.05%	-3.21%
			5690	5.003	34.274	5.158	35.426	-3.01%	-3.25%
			5700	5.016	34.237	5.168	35.414	-2.94%	-3.32%
			5710	5.028	34.208	5.178	35.403	-2.90%	-3.38%
			5720	5.042	34.190	5.188	35.391	-2.81%	-3.39%
			5745	5.067	34.114	5.214	35.363	-2.82%	-3.53%
			5750	5.071	34.104	5.219	35.357	-2.84%	-3.54%
			5755	5.074	34.102	5.224	35.351	-2.87%	-3.53%
			5765	5.083	34.096	5.234	35.340	-2.88%	-3.52%
			5775	5.095	34.088	5.245	35.329	-2.86%	-3.51%
			5785	5.109	34.077	5.255	35.317	-2.78%	-3.51%
			5795	5.122	34.063	5.265	35.305	-2.72%	-3.52%
			5800	5.129	34.048	5.270	35.300	-2.68%	-3.55%
			5805	5.136	34.036	5.275	35.294	-2.64%	-3.56%
			5825	5.158	33.973	5.296	35.271	-2.61%	-3.68%
			5835	5.169	33.956	5.305	35.230	-2.56%	-3.62%
			5845	5.181	33.931	5.315	35.210	-2.52%	-3.63%
			5850	5.188	33.918	5.320	35.200	-2.48%	-3.64%
			5855	5.194	33.906	5.325	35.197	-2.46%	-3.67%
			5865	5.207	33.883	5.336	35.190	-2.42%	-3.71%
			5875	5.219	33.866	5.347	35.183	-2.39%	-3.74%
			5885	5.231	33.858	5.357	35.177	-2.35%	-3.75%
			5905	5.255	33.849	5.379	35.163	-2.31%	-3.74%

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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
7/13/2026	5200-5800 Head	19.0	5150	4.386	36.164	4.608	36.050	-4.82%	0.32%
			5160	4.398	36.158	4.618	36.040	-4.76%	0.33%
			5170	4.412	36.135	4.629	36.030	-4.69%	0.29%
			5180	4.425	36.106	4.635	36.009	-4.53%	0.27%
			5190	4.438	36.084	4.645	35.998	-4.46%	0.24%
			5200	4.452	36.071	4.655	35.986	-4.36%	0.24%
			5210	4.463	36.059	4.666	35.975	-4.35%	0.23%
			5220	4.472	36.035	4.676	35.963	-4.36%	0.20%
			5240	4.490	36.001	4.696	35.940	-4.39%	0.17%
			5250	4.499	35.992	4.706	35.929	-4.40%	0.18%
			5260	4.510	35.976	4.717	35.917	-4.39%	0.16%
			5270	4.520	35.946	4.727	35.906	-4.38%	0.11%
			5280	4.534	35.915	4.737	35.894	-4.29%	0.06%
			5290	4.550	35.885	4.748	35.883	-4.17%	0.01%
			5300	4.567	35.869	4.758	35.871	-4.01%	-0.01%
			5310	4.581	35.861	4.768	35.860	-3.92%	0.00%
			5320	4.591	35.855	4.778	35.849	-3.91%	0.02%
			5500	4.786	35.513	4.963	35.643	-3.57%	-0.36%
			5510	4.799	35.501	4.973	35.632	-3.50%	-0.37%
			5520	4.812	35.482	4.983	35.620	-3.43%	-0.39%
			5530	4.822	35.465	4.994	35.609	-3.44%	-0.40%
			5540	4.833	35.441	5.004	35.597	-3.42%	-0.44%
			5550	4.841	35.423	5.014	35.586	-3.45%	-0.46%
			5560	4.851	35.409	5.024	35.574	-3.44%	-0.46%
			5580	4.876	35.376	5.045	35.551	-3.35%	-0.49%
			5600	4.905	35.317	5.065	35.529	-3.16%	-0.60%
			5610	4.919	35.296	5.076	35.518	-3.09%	-0.63%
			5620	4.933	35.281	5.086	35.506	-3.01%	-0.63%
			5640	4.955	35.252	5.106	35.483	-2.96%	-0.65%
			5660	4.975	35.217	5.127	35.460	-2.96%	-0.69%
			5670	4.983	35.208	5.137	35.449	-3.00%	-0.68%
			5680	4.992	35.199	5.147	35.437	-3.01%	-0.67%
			5690	5.005	35.165	5.158	35.426	-2.97%	-0.74%
			5700	5.021	35.140	5.168	35.414	-2.84%	-0.77%
			5710	5.038	35.119	5.178	35.403	-2.70%	-0.80%
			5720	5.056	35.097	5.188	35.391	-2.54%	-0.83%
			5745	5.076	35.051	5.214	35.363	-2.65%	-0.88%
			5750	5.080	35.044	5.219	35.357	-2.66%	-0.89%
			5755	5.084	35.041	5.224	35.351	-2.68%	-0.88%
			5765	5.093	35.033	5.234	35.340	-2.69%	-0.87%
			5775	5.103	35.029	5.245	35.329	-2.71%	-0.85%
			5785	5.114	35.019	5.255	35.317	-2.68%	-0.84%
			5795	5.126	34.991	5.265	35.305	-2.64%	-0.89%
			5800	5.133	34.981	5.270	35.300	-2.60%	-0.90%
			5805	5.140	34.967	5.275	35.294	-2.56%	-0.93%
			5825	5.170	34.908	5.296	35.271	-2.38%	-1.03%
			5835	5.184	34.881	5.305	35.230	-2.28%	-0.99%
			5845	5.194	34.867	5.315	35.210	-2.28%	-0.97%
			5850	5.199	34.856	5.320	35.200	-2.27%	-0.98%
			5855	5.204	34.853	5.325	35.197	-2.27%	-0.98%
			5865	5.215	34.852	5.336	35.190	-2.27%	-0.96%
			5875	5.226	34.848	5.347	35.183	-2.26%	-0.95%
			5885	5.239	34.837	5.357	35.177	-2.20%	-0.97%
			5905	5.258	34.783	5.379	35.163	-2.25%	-1.08%

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 & 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 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
AM14	13	HEAD	07/11/2026	23.2	24.1	1.00	1004	7782	1646	0.559	0.585	0.559	-4.44%	0.346	0.358	0.346	-3.35%
AM6	750	HEAD	06/20/2026	22.1	23.0	0.20	1097	7308	501	1.680	8.270	8.400	1.57%	1.120	5.380	5.600	4.09%
AM6	750	HEAD	06/22/2026	20.2	22.4	0.20	1097	7308	501	1.690	8.270	8.450	2.18%	1.120	5.380	5.600	4.09%
AM6	750	HEAD	06/26/2026	21.8	24.9	0.20	1097	7308	501	1.670	8.270	8.350	0.97%	1.100	5.380	5.500	2.23%
AM6	750	HEAD	06/28/2026	20.0	23.4	0.20	1097	7308	501	1.640	8.270	8.200	-0.85%	1.090	5.380	5.450	1.30%
AM6	750	HEAD	06/30/2026	20.3	23.0	0.20	1097	7308	501	1.690	8.270	8.400	2.18%	1.120	5.380	5.600	4.09%
AM6	750	HEAD	07/12/2026	20.7	23.0	0.20	1097	7308	501	1.610	8.270	8.050	-2.66%	1.070	5.380	5.350	-0.56%
AM10	750	HEAD	07/14/2026	24.1	24.7	0.20	1097	7421	604	1.640	8.270	8.200	-0.85%	1.100	5.380	5.500	2.23%
AM6	750	HEAD	07/15/2026	19.9	23.0	0.20	1097	7308	501	1.680	8.270	8.400	1.57%	1.120	5.380	5.600	4.09%
AM10	835	HEAD	06/21/2026	22.0	23.0	0.20	4d040	7421	604	1.920	9.590	9.600	0.10%	1.300	6.250	6.500	4.00%
AM10	835	HEAD	06/24/2026	22.3	24.9	0.20	4d040	7421	604	1.970	9.590	9.850	2.71%	1.320	6.250	6.600	5.60%
AM10	835	HEAD	06/25/2026	22.4	24.0	0.20	4d040	7421	604	1.980	9.590	9.900	3.23%	1.320	6.250	6.600	5.60%
AM10	835	HEAD	07/24/2026	23.0	23.0	0.20	4d040	7421	604	1.970	9.590	9.850	2.71%	1.340	6.250	6.700	7.20%
AM15	1750	HEAD	06/18/2026	22.0	21.0	0.10	1040	3746	1237	3.690	36.300	36.900	1.65%	1.970	19.300	19.700	2.07%
AM15	1750	HEAD	06/20/2026	23.7	21.4	0.10	1040	3746	1237	3.600	36.300	36.000	-0.83%	1.920	19.300	19.200	-0.52%
AM15	1750	HEAD	07/01/2026	21.9	21.3	0.10	1040	3746	1237	3.480	36.300	34.800	-4.13%	1.860	19.300	18.600	-3.63%
AM13	1900	HEAD	06/24/2026	21.2	20.1	0.10	5d181	7499	1465	4.220	39.900	42.200	5.76%	2.170	21.100	21.700	2.84%
AM13	1900	HEAD	06/26/2026	22.7	22.0	0.10	5d181	7499	1465	3.940	39.900	39.400	-1.25%	2.040	21.100	20.400	-3.32%
AM13	1900	HEAD	06/29/2026	19.9	20.0	0.10	5d030	7499	1465	4.140	39.700	41.400	4.28%	2.110	20.900	21.100	0.96%
AM16	2450	HEAD	06/16/2026	22.5	23.1	0.10	855	7551	1323	5.430	53.300	54.300	1.88%	2.450	25.000	24.500	-2.00%
AM7	2450	HEAD	06/20/2026	21.2	20.9	0.10	921	3837	793	5.390	52.200	53.900	3.26%	2.530	24.300	25.300	4.12%
AM7	2450	HEAD	06/22/2026	20.3	19.5	0.10	921	3837	793	5.170	52.200	51.700	-0.96%	2.430	24.300	24.300	0.00%
AM11	2450	HEAD	06/23/2026	21.0	19.0	0.10	855	7427	1402	5.400	53.300	54.000	1.31%	2.520	25.000	25.200	0.80%
AM11	2450	HEAD	06/25/2026	20.3	20.0	0.10	855	7427	1402	4.990	53.300	49.900	-6.38%	2.310	25.000	23.100	-7.60%
AM11	2450	HEAD	06/27/2026	22.1	21.7	0.10	855	7427	1402	5.390	53.300	53.900	1.13%	2.520	25.000	25.200	0.80%
AM11	2450	HEAD	07/01/2026	20.2	19.1	0.10	855	7427	1402	5.030	53.300	50.300	-5.63%	2.380	25.000	23.800	-4.80%
AM7	2600	HEAD	06/20/2026	21.2	20.9	0.10	1069	3837	793	5.530	56.200	55.300	-1.60%	2.510	25.500	25.100	-1.57%
AM7	2600	HEAD	06/22/2026	20.3	19.5	0.10	1069	3837	793	5.560	56.200	55.600	-1.07%	2.530	25.500	25.300	-0.78%
AM11	2600	HEAD	06/23/2026	21.0	19.0	0.10	1068	7427	1402	5.500	56.100	55.000	-1.96%	2.490	25.200	24.900	-1.19%
AM11	2600	HEAD	06/25/2026	20.3	20.0	0.10	1068	7427	1402	5.450	56.100	54.500	-2.85%	2.460	25.200	24.600	-2.38%
AM11	2600	HEAD	06/27/2026	22.1	21.7	0.10	1068	7427	1402	5.550	56.100	55.500	-1.07%	2.510	25.200	25.100	-0.40%
AM11	2600	HEAD	07/01/2026	20.2	19.1	0.10	1068	7427	1402	5.480	56.100	54.800	-2.32%	2.510	25.200	25.100	-0.40%
AM8	5250	HEAD	06/12/2026	21.5	19.2	0.05	1066	7490	1644	3.800	77.900	76.000	-2.44%	1.090	22.500	21.800	-3.11%
AM8	5250	HEAD	06/22/2026	22.0	20.6	0.05	1066	7490	1644	3.930	77.900	78.600	0.90%	1.130	22.500	22.600	0.44%
AM9	5250	HEAD	07/13/2026	19.6	19.0	0.05	1066	7668	1681	3.900	77.900	78.000	0.13%	1.130	22.500	22.600	0.44%
AM8	5600	HEAD	06/12/2026	21.5	19.2	0.05	1066	7490	1644	4.290	81.800	85.800	4.89%	1.220	23.700	24.400	2.95%
AM8	5600	HEAD	06/22/2026	22.0	20.6	0.05	1066	7490	1644	4.070	81.800	81.400	-0.49%	1.160	23.700	23.200	-2.11%
AM9	5600	HEAD	07/13/2026	19.6	19.0	0.05	1066	7668	1681	4.140	81.800	82.800	1.22%	1.170	23.700	23.400	-1.27%
AM8	5750	HEAD	06/12/2026	21.5	19.2	0.05	1066	7490	1644	4.140	80.700	82.800	2.60%	1.190	23.200	23.800	2.59%
AM8	5750	HEAD	06/22/2026	22.0	20.6	0.05	1066	7490	1644	4.130	80.700	82.600	2.35%	1.180	23.200	23.600	1.72%
AM9	5750	HEAD	07/13/2026	19.6	19.0	0.05	1066	7668	1681	3.920	80.700	79.400	-2.85%	1.130	23.200	22.600	-2.59%
AM8	5850	HEAD	06/12/2026	21.5	19.2	0.05	1066	7490	1644	4.090	77.400	81.800	5.68%	1.160	22.200	23.200	4.50%
AM8	5850	HEAD	06/22/2026	22.0	20.6	0.05	1066	7490	1644	4.130	77.400	82.600	6.72%	1.170	22.200	23.400	5.41%
AM9	5850	HEAD	07/13/2026	19.6	19.0	0.05	1066	7668	1681	4.090	77.400	81.800	5.68%	1.160	22.200	23.200	4.50%

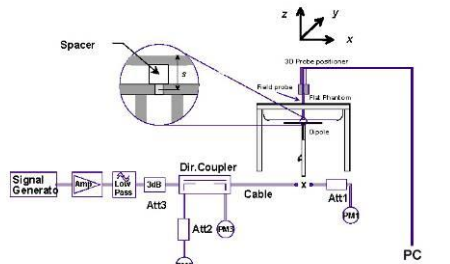


Figure 9-1

System Verification Setup Diagram



Figure 9-2

System Verification Setup Photo

FCC ID: BCG-A3587	DUT Type: Watch	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1C2604100032-19.BCG-R2		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Page 59 of 86

REV 25.0
04/09/2026

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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 #	MFR [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)	P101	P101 [dBm]	Overall P101 [dBm]
Head	LTE Band 71	20	QPSK	Aluminum	Sport	OC2TH	1:1	-0.03	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.003	1.236	0.004	0.003		49.5	
Head	LTE Band 71	20	QPSK	Aluminum	Sport	OC2TH	1:1	0.07	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.000	1.222	0.000	0.000		63.4	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	OC2TH	1:1	-0.07	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.003	1.236	0.004	0.003		49.5	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	OC2TH	1:1	0.07	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.002	1.222	0.002	0.001		50.4	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	OC2TH	1:1	-0.12	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.002	1.236	0.002	0.001		51.3	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	OC2TH	1:1	0.03	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.002	1.222	0.002	0.001		50.4	
Head	LTE Band 71	20	QPSK	Ceramic	Sport	QXVPH	1:1	-0.08	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.002	1.236	0.002	0.001		51.3	
Head	LTE Band 71	20	QPSK	Ceramic	Sport	QXVPH	1:1	0.08	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.000	1.222	0.000	0.000		63.4	
Head	LTE Band 71	20	QPSK	Ceramic	Metal Loop	QXVPH	1:1	-0.18	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.002	1.236	0.002	0.001		51.3	
Head	LTE Band 71	20	QPSK	Ceramic	Metal Loop	QXVPH	1:1	0.01	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.002	1.222	0.002	0.001		50.4	
Head	LTE Band 71	20	QPSK	Ceramic	Metal Links	QXVPH	1:1	-0.12	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.003	1.236	0.004	0.003	A1	49.5	
Head	LTE Band 71	20	QPSK	Ceramic	Metal Links	QXVPH	1:1	0.05	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.002	1.222	0.002	0.001		50.4	
Head	LTE Band 71	20	QPSK	Titanium	Sport	JKMWH	1:1	0.09	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.002	1.236	0.002	0.001		51.3	
Head	LTE Band 71	20	QPSK	Titanium	Sport	JKMWH	1:1	0.03	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.002	1.222	0.002	0.001		50.4	
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	JKMWH	1:1	-0.09	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.002	1.236	0.002	0.001		51.3	
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	JKMWH	1:1	0.15	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.002	1.222	0.002	0.001		50.4	
Head	LTE Band 71	20	QPSK	Titanium	Metal Links	JKMWH	1:1	0.04	680.50	133297	0.0	25.70	24.78	1	99	Front	10	0.003	1.236	0.004	0.003		49.5	
Head	LTE Band 71	20	QPSK	Titanium	Metal Links	JKMWH	1:1	0.09	680.50	133297	1.0	24.70	23.83	50	25	Front	10	0.003	1.222	0.001	0.001		53.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g) averaged over 1 gram				
Spatial Peak																								
Uncontrolled Exposure/General Population																								

10.2 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 #	MFR [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)	P101	P101 [dBm]	Overall P101 [dBm]
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	7C707	1:1	0.07	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.062	1.236	0.077	0.019		40.4	
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	7C707	1:1	-0.16	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.044	1.222	0.054	0.014		40.9	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	7C707	1:1	-0.08	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.086	1.236	0.106	0.027		38.9	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	7C707	1:1	-0.18	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.071	1.222	0.087	0.022		38.8	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	7C707	1:1	0.01	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.214	1.236	0.265	0.066		35.0	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	7C707	1:1	-0.03	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.088	1.222	0.108	0.027		37.9	
Extremity	LTE Band 71	20	QPSK	Ceramic	Sport	JKMWH	1:1	-0.00	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.159	1.236	0.197	0.049		36.3	
Extremity	LTE Band 71	20	QPSK	Ceramic	Sport	GW3VJ	1:1	-0.07	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.129	1.222	0.158	0.040		36.2	
Extremity	LTE Band 71	20	QPSK	Ceramic	Metal Loop	GW3VJ	1:1	0.00	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.209	1.236	0.258	0.065		35.1	
Extremity	LTE Band 71	20	QPSK	Ceramic	Metal Loop	GW3VJ	1:1	-0.06	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.179	1.222	0.219	0.055		34.8	
Extremity	LTE Band 71	20	QPSK	Ceramic	Metal Links	GW3VJ	1:1	-0.16	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.225	1.236	0.282	0.071	A2	34.7	
Extremity	LTE Band 71	20	QPSK	Ceramic	Metal Links	GW3VJ	1:1	0.00	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.181	1.222	0.221	0.055		34.8	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	JKMWH	1:1	0.05	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.058	1.236	0.072	0.018		40.7	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	JKMWH	1:1	-0.01	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.161	1.222	0.201	0.051		37.1	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	JKMWH	1:1	-0.07	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.084	1.236	0.104	0.026		39.0	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	JKMWH	1:1	-0.13	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.071	1.222	0.087	0.022		38.8	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Links	JKMWH	1:1	-0.02	680.50	133297	0.0	25.70	24.78	1	99	Back	0	0.132	1.236	0.237	0.059		35.5	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Links	JKMWH	1:1	0.05	680.50	133297	1.0	24.70	23.83	50	25	Back	0	0.091	1.222	0.111	0.028		37.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Extremity		4.0 W/kg (mW/g) averaged over 10 grams				
Spatial Peak																								
Uncontrolled Exposure/General Population																								

10.3 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 #	MFR [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 #	Limit [dBm]	Overall Limit [dBm]		
Head	LTE Band 12	10	QPSK	Aluminum	Sport	GPQ4W	1:1	0.02	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.003	1.265	0.004	0.003		49.4			
Head	LTE Band 12	10	QPSK	Aluminum	Sport	GPQ4W	1:1	0.06	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.002	1.236	0.002	0.001		50.3			
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	GPQ4W	1:1	0.05	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.002	1.265	0.003	0.002		51.2			
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	GPQ4W	1:1	0.01	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.002	1.236	0.002	0.001		50.3			
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	GPQ4W	1:1	0.06	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.003	1.265	0.004	0.003		49.4			
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	GPQ4W	1:1	-0.01	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.002	1.236	0.004	0.003		48.5			
Head	LTE Band 12	10	QPSK	Ceramic	Sport	QXVPH	1:1	0.03	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.002	1.265	0.003	0.002		51.2			
Head	LTE Band 12	10	QPSK	Ceramic	Sport	QXVPH	1:1	0.09	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.002	1.236	0.002	0.001		50.3			
Head	LTE Band 12	10	QPSK	Ceramic	Metal Loop	QXVPH	1:1	0.05	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.001	1.265	0.000	0.000		64.2			
Head	LTE Band 12	10	QPSK	Ceramic	Metal Loop	QXVPH	1:1	-0.07	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.000	1.236	0.000	0.000		63.3			
Head	LTE Band 12	10	QPSK	Ceramic	Metal Links	QXVPH	1:1	0.07	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.002	1.265	0.003	0.002		51.2			
Head	LTE Band 12	10	QPSK	Ceramic	Metal Links	QXVPH	1:1	0.07	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.001	1.236	0.001	0.001		53.3			
Head	LTE Band 12	10	QPSK	Titanium	Sport	GPQ4W	1:1	0.05	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.002	1.265	0.003	0.002		49.4			
Head	LTE Band 12	10	QPSK	Titanium	Sport	GPQ4W	1:1	0.09	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.002	1.236	0.002	0.001		50.3			
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	6RWG	1:1	0.20	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.003	1.265	0.004	0.003		49.4			
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	6RWG	1:1	0.07	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.003	1.236	0.004	0.003		48.5			
Head	LTE Band 12	10	QPSK	Titanium	Metal Links	6RWG	1:1	0.03	707.50	23095	0.0	25.70	24.68	1	49	Front	10	0.002	1.265	0.003	0.002		51.2			
Head	LTE Band 12	10	QPSK	Titanium	Metal Links	6RWG	1:1	0.04	707.50	23095	1.0	24.70	23.78	25	0	Front	10	0.002	1.236	0.002	0.001		50.3			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																			Head				1.6 W/kg (mW/g)			
Spatial Peak																			averaged over 1 gram							
Uncontrolled Exposure/General Population																										

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	OC2TH	1:1	-0.06	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.084	1.265	0.106	0.027		38.9	
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	OC2TH	1:1	-0.13	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.067	1.236	0.083	0.021		39.0	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	OC2TH	1:1	-0.02	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.114	1.265	0.144	0.036		37.6	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	OC2TH	1:1	-0.15	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.088	1.236	0.109	0.027		37.8	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	OC2TH	1:1	-0.02	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.162	1.265	0.205	0.051		36.1	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	OC2TH	1:1	-0.05	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.140	1.236	0.173	0.043		35.8	
Extremity	LTE Band 12	10	QPSK	Ceramic	Sport	GW3VJ	1:1	-0.18	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.184	1.265	0.233	0.058		35.5	
Extremity	LTE Band 12	10	QPSK	Ceramic	Sport	GW3VJ	1:1	-0.11	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.141	1.236	0.174	0.044		35.8	
Extremity	LTE Band 12	10	QPSK	Ceramic	Metal Loop	GW3VJ	1:1	-0.09	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.214	1.265	0.273	0.068		34.9	
Extremity	LTE Band 12	10	QPSK	Ceramic	Metal Loop	GW3VJ	1:1	-0.07	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.168	1.236	0.208	0.052		35.0	
Extremity	LTE Band 12	10	QPSK	Ceramic	Metal Links	GW3VJ	1:1	-0.10	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.268	1.265	0.339	0.085	A4	33.9	
Extremity	LTE Band 12	10	QPSK	Ceramic	Metal Links	GW3VJ	1:1	-0.09	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.174	1.236	0.215	0.054		34.9	
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	3P9MC	1:1	-0.10	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.070	1.265	0.089	0.022		39.7	
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	3P9MC	1:1	0.04	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.052	1.236	0.064	0.016		40.1	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	3P9MC	1:1	-0.04	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.112	1.265	0.142	0.036		37.7	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	3P9MC	1:1	-0.09	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.087	1.236	0.108	0.027		37.9	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Links	3P9MC	1:1	-0.02	707.50	23095	0.0	25.70	24.68	1	49	Back	0	0.135	1.265	0.173	0.043		36.9	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Links	3P9MC	1:1	-0.09	707.50	23095	1.0	24.70	23.78	25	0	Back	0	0.108	1.236	0.133	0.033		37.0	
ANSI/IEEE C63.19-2012 SAFETY LIMIT																Extremity 4.0 W/kg (mW/g) averaged over 10 grams								
Spatial Peak Uncontrolled Exposure/General Population																								

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 (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 13	10	QPSK	Aluminum	Sport	TV900	1:1	-0.01	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.002	1.259	0.003	0.002		51.2	
Head	LTE Band 13	10	QPSK	Aluminum	Sport	TV900	1:1	0.03	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.001	1.242	0.001	0.001		53.3	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	TV900	1:1	-0.10	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.005	1.259	0.006	0.004	A5	47.3	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	TV900	1:1	0.08	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.004	1.242	0.005	0.003		47.3	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	TV900	1:1	-0.07	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.001	1.259	0.001	0.001		54.2	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	TV900	1:1	0.02	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.000	1.242	0.000	0.000		63.3	
Head	LTE Band 13	10	QPSK	Ceramic	Sport	VTJCI	1:1	0.09	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.001	1.259	0.001	0.001		54.2	
Head	LTE Band 13	10	QPSK	Ceramic	Sport	VTJCI	1:1	-0.03	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.000	1.242	0.000	0.000		63.3	
Head	LTE Band 13	10	QPSK	Ceramic	Metal Loop	VTJCI	1:1	0.09	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	LTE Band 13	10	QPSK	Ceramic	Metal Loop	VTJCI	1:1	0.04	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.000	1.242	0.000	0.000		63.3	
Head	LTE Band 13	10	QPSK	Ceramic	Metal Links	VTJCI	1:1	-0.01	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.001	1.259	0.001	0.001		54.2	
Head	LTE Band 13	10	QPSK	Ceramic	Metal Links	VTJCI	1:1	0.01	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.003	1.242	0.004	0.003		48.5	
Head	LTE Band 13	10	QPSK	Titanium	Sport	952RK	1:1	0.05	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.001	1.259	0.001	0.001		54.2	
Head	LTE Band 13	10	QPSK	Titanium	Sport	952RK	1:1	0.07	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.000	1.242	0.000	0.000		63.3	
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	952RK	1:1	0.08	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.002	1.259	0.003	0.002		51.2	
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	952RK	1:1	0.01	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.001	1.242	0.001	0.001		53.3	
Head	LTE Band 13	10	QPSK	Titanium	Metal Links	952RK	1:1	0.07	782.00	23230	0.0	25.70	24.70	1	25	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	LTE Band 13	10	QPSK	Titanium	Metal Links	952RK	1:1	0.08	782.00	23230	1.0	24.70	23.76	25	25	Front	10	0.002	1.242	0.002	0.001		50.3	
ANSI/IEEE C63.19-2012 SAFETY LIMIT																		Head 1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak Uncontrolled Exposure/General Population																								

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	WCK9	1:1	-0.09	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.073	1.259	0.092	0.023		39.6	
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	WCK9	1:1	-0.16	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.055	1.242	0.068	0.017		39.9	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	WCK9	1:1	-0.18	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.122	1.259	0.154	0.039		37.3	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	WCK9	1:1	-0.10	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.105	1.242	0.120	0.023		37.1	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	WCK9	1:1	-0.01	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.207	1.259	0.261	0.065		35.1	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	WCK9	1:1	-0.07	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.165	1.242	0.205	0.051		35.1	
Extremity	LTE Band 13	10	QPSK	Ceramic	Sport	VTJCI	1:1	-0.09	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.168	1.259	0.212	0.053		36.0	
Extremity	LTE Band 13	10	QPSK	Ceramic	Sport	VTJCI	1:1	-0.08	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.132	1.242	0.164	0.041		36.1	
Extremity	LTE Band 13	10	QPSK	Ceramic	Metal Loop	VTJCI	1:1	0.00	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.229	1.259	0.288	0.072		34.6	
Extremity	LTE Band 13	10	QPSK	Ceramic	Metal Loop	VTJCI	1:1	0.03	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.179	1.242	0.222	0.056		34.7	
Extremity	LTE Band 13	10	QPSK	Ceramic	Metal Links	VTJCI	1:1	-0.06	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.290	1.259	0.365	0.091	A6	33.6	
Extremity	LTE Band 13	10	QPSK	Ceramic	Metal Links	VTJCI	1:1	-0.07	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.231	1.242	0.287	0.072		33.6	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	9209W	1:1	-0.09	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.068	1.259	0.086	0.022		39.9	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	9209W	1:1	0.03	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.052	1.242	0.065	0.016		40.1	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	9209W	1:1	-0.03	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.092	1.259	0.116	0.029		38.6	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	9209W	1:1	-0.02	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.085	1.242	0.106	0.027		38.0	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Links	9209W	1:1	0.01	782.00	23230	0.0	25.70	24.70	1	25	Back	0	0.192	1.259	0.242	0.061		35.4	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Links	9209W	1:1	-0.02	782.00	23230	1.0	24.70	23.76	25	25	Back	0	0.163	1.242	0.202	0.051		35.1	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																							Extremity	
Spatial Peak																							4.0 W/kg (mW/g)	
Average over 1g (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 #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 14	10	QPSK	Aluminum	Sport	TVK90	1:1	-0.16	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.003	1.384	0.004	0.003		49.1	
Head	LTE Band 14	10	QPSK	Aluminum	Sport	TVK90	1:1	0.03	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.001	1.219	0.001	0.001		53.4	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	TVK90	1:1	0.02	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.002	1.384	0.003	0.002		50.8	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	TVK90	1:1	-0.11	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.002	1.219	0.002	0.001		50.4	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	TVK90	1:1	0.03	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.004	1.384	0.006	0.004		47.8	
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	TVK90	1:1	0.06	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.001	1.219	0.004	0.001		48.6	
Head	LTE Band 14	10	QPSK	Ceramic	Sport	VTJCJ	1:1	0.01	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.000	1.384	0.000	0.000		63.8	
Head	LTE Band 14	10	QPSK	Ceramic	Sport	VTJCJ	1:1	0.07	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.000	1.219	0.000	0.000		63.4	
Head	LTE Band 14	10	QPSK	Ceramic	Metal Loop	VTJCJ	1:1	0.06	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.001	1.384	0.001	0.001		53.8	
Head	LTE Band 14	10	QPSK	Ceramic	Metal Loop	VTJCJ	1:1	0.09	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.001	1.219	0.001	0.001		53.4	
Head	LTE Band 14	10	QPSK	Ceramic	Metal Links	VTJCJ	1:1	0.01	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.002	1.384	0.003	0.002		50.8	
Head	LTE Band 14	10	QPSK	Ceramic	Metal Links	VTJCJ	1:1	0.04	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.000	1.219	0.000	0.000		63.4	
Head	LTE Band 14	10	QPSK	Titanium	Sport	952RK	1:1	0.04	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.002	1.384	0.003	0.002		50.8	
Head	LTE Band 14	10	QPSK	Titanium	Sport	952RK	1:1	0.03	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.001	1.219	0.001	0.001		53.4	
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	952RK	1:1	0.01	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.002	1.384	0.003	0.002		50.8	
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	952RK	1:1	0.09	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.000	1.219	0.000	0.000		63.4	
Head	LTE Band 14	10	QPSK	Titanium	Metal Links	952RK	1:1	0.05	793.00	23330	0.0	25.70	24.29	1	49	Front	10	0.004	1.384	0.006	0.004	A7	47.8	
Head	LTE Band 14	10	QPSK	Titanium	Metal Links	952RK	1:1	0.05	793.00	23330	1.0	24.70	23.84	25	25	Front	10	0.002	1.219	0.002	0.001		50.4	
ANSI/IEEE CS-1982 - SAFETY LIMIT															Head Spatial Peak Uncontrolled Exposure/General Population									
															1.6 W/kg (mW/g) averaged over 1 gram									

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 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	7C707	1:1	0.03	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.081	1.384	0.112	0.028		38.7	
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	7C707	1:1	0.02	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.073	1.219	0.089	0.022		38.7	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	7C707	1:1	0.03	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.142	1.384	0.197	0.049		36.3	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	7C707	1:1	-0.13	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.091	1.219	0.111	0.028		37.8	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	7C707	1:1	0.04	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.178	1.384	0.246	0.062		35.3	
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	7C707	1:1	0.02	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.149	1.219	0.182	0.046		35.6	
Extremity	LTE Band 14	10	QPSK	Ceramic	Sport	GW3V	1:1	-0.09	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.180	1.384	0.249	0.062		35.2	
Extremity	LTE Band 14	10	QPSK	Ceramic	Sport	GW3V	1:1	-0.17	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.142	1.219	0.173	0.043		35.8	
Extremity	LTE Band 14	10	QPSK	Ceramic	Metal Loop	GW3V	1:1	-0.08	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.228	1.384	0.316	0.079		34.2	
Extremity	LTE Band 14	10	QPSK	Ceramic	Metal Loop	GW3V	1:1	-0.36	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.182	1.219	0.222	0.056		34.7	
Extremity	LTE Band 14	10	QPSK	Ceramic	Metal Links	GW3V	1:1	0.01	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.281	1.384	0.389	0.097	A8	33.3	
Extremity	LTE Band 14	10	QPSK	Ceramic	Metal Links	GW3V	1:1	-0.19	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.221	1.219	0.265	0.067		33.9	
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	JCMWH	1:1	-0.02	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.072	1.384	0.100	0.025		39.2	
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	JCMWH	1:1	0.03	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.059	1.219	0.072	0.018		39.6	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	JCMWH	1:1	-0.06	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.237	1.384	0.328	0.082		34.1	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	JCMWH	1:1	-0.19	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.186	1.219	0.239	0.060		34.4	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Links	JCMWH	1:1	-0.02	793.00	23330	0.0	25.70	24.29	1	49	Back	0	0.163	1.384	0.226	0.057		35.7	
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Links	JCMWH	1:1	-0.12	793.00	23330	1.0	24.70	23.84	25	25	Back	0	0.125	1.219	0.152	0.038		36.4	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																		Extremity Spatial Peak Uncontrolled Exposure/General Population						
																		4.0 W/kg (mW/g) 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 #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 26	10	QPSK	Aluminum	Sport	Y6VFC	1:1	0.08	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.002	1.213	0.002	0.001		51.4	
Head	LTE Band 26	10	QPSK	Aluminum	Sport	Y6VFC	1:1	0.05	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.000	1.205	0.000	0.000		63.4	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	Y6VFC	1:1	0.02	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.000	1.213	0.000	0.000		64.4	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	Y6VFC	1:1	-0.01	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.000	1.205	0.000	0.000		63.4	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	Y6VFC	1:1	0.02	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.002	1.213	0.002	0.001		51.4	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	Y6VFC	1:1	0.05	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.002	1.205	0.002	0.001		50.4	
Head	LTE Band 26	10	QPSK	Ceramic	Sport	V7VCJ	1:1	0.02	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.002	1.213	0.002	0.001		51.4	
Head	LTE Band 26	10	QPSK	Ceramic	Sport	V7VCJ	1:1	0.03	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.000	1.205	0.000	0.000		63.4	
Head	LTE Band 26	10	QPSK	Ceramic	Metal Loop	V7VCJ	1:1	0.02	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.002	1.213	0.002	0.001		51.4	
Head	LTE Band 26	10	QPSK	Ceramic	Metal Loop	V7VCJ	1:1	0.05	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.001	1.205	0.001	0.001		53.4	
Head	LTE Band 26	10	QPSK	Ceramic	Metal Links	V7VCJ	1:1	0.09	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.003	1.213	0.004	0.003	A9	49.6	
Head	LTE Band 26	10	QPSK	Ceramic	Metal Links	V7VCJ	1:1	0.07	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.003	1.205	0.004	0.003		48.7	
Head	LTE Band 26	10	QPSK	Titanium	Sport	XF19R	1:1	-0.11	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.001	1.213	0.001	0.001		54.4	
Head	LTE Band 26	10	QPSK	Titanium	Sport	XF19R	1:1	0.01	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.000	1.205	0.000	0.000		63.4	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	XF19R	1:1	0.04	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.003	1.213	0.004	0.003		49.6	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	XF19R	1:1	0.02	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.002	1.205	0.002	0.001		50.4	
Head	LTE Band 26	10	QPSK	Titanium	Metal Links	XF19R	1:1	0.05	819.00	26740	0.0	25.70	24.86	1	25	Front	10	0.001	1.213	0.001	0.001		54.4	
Head	LTE Band 26	10	QPSK	Titanium	Metal Links	XF19R	1:1	0.06	819.00	26740	1.0	24.70	23.89	25	25	Front	10	0.002	1.205	0.001	0.001		53.4	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																			Head					
Spatial Peak																			1.6 W/kg (mW/g)					
Unintended 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 #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	H407T	1:1	-0.04	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.070	1.213	0.085	0.021		39.9	
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	H407T	1:1	-0.03	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.055	1.205	0.066	0.017		40.0	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	H407T	1:1	-0.11	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.108	1.213	0.131	0.033		38.0	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	H407T	1:1	0.02	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.087	1.205	0.105	0.026		38.0	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	H407T	1:1	0.07	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.169	1.213	0.205	0.051		36.1	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	H407T	1:1	0.04	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.133	1.205	0.160	0.040		36.0	
Extremity	LTE Band 26	10	QPSK	Ceramic	Sport	0N9IT	1:1	0.07	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.166	1.213	0.201	0.050		36.2	
Extremity	LTE Band 26	10	QPSK	Ceramic	Sport	0N9IT	1:1	-0.09	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.131	1.205	0.158	0.040		36.2	
Extremity	LTE Band 26	10	QPSK	Ceramic	Metal Loop	0N9IT	1:1	-0.02	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.199	1.213	0.241	0.060		35.4	
Extremity	LTE Band 26	10	QPSK	Ceramic	Metal Loop	0N9IT	1:1	-0.05	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.167	1.205	0.201	0.050		35.2	
Extremity	LTE Band 26	10	QPSK	Ceramic	Metal Links	0N9IT	1:1	0.01	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.298	1.213	0.361	0.090	A10	33.6	
Extremity	LTE Band 26	10	QPSK	Ceramic	Metal Links	0N9IT	1:1	-0.01	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.236	1.205	0.284	0.071		33.7	
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	L4305	1:1	-0.09	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.069	1.213	0.084	0.021		40.0	
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	L4305	1:1	-0.07	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.056	1.205	0.067	0.017		39.9	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	L4305	1:1	0.17	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.099	1.213	0.120	0.030		38.4	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	L4305	1:1	-0.12	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.087	1.205	0.105	0.026		38.0	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Links	L4305	1:1	-0.03	819.00	26740	0.0	25.70	24.86	1	25	Back	0	0.225	1.213	0.273	0.068		34.8	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Links	L4305	1:1	0.01	819.00	26740	1.0	24.70	23.89	25	25	Back	0	0.183	1.205	0.221	0.055		34.8	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Extremity		4.0 W/kg (mW/g)				
Spatial Peak																		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 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 5	10	QPSK	Aluminum	Sport	59173	1:1	0.09	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.000	1.400	0.000	0.000		63.8	
Head	LTE Band 5	10	QPSK	Aluminum	Sport	59173	1:1	0.03	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.001	1.227	0.001	0.001		53.4	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	59173	1:1	0.06	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.001	1.400	0.001	0.001		53.8	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	59173	1:1	0.04	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.001	1.227	0.001	0.001		53.4	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	59173	1:1	0.04	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.001	1.400	0.001	0.001		53.8	
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	59173	1:1	0.01	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.002	1.227	0.002	0.001		50.3	
Head	LTE Band 5	10	QPSK	Ceramic	Sport	TVLQP	1:1	0.01	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.000	1.400	0.000	0.000		63.8	
Head	LTE Band 5	10	QPSK	Ceramic	Sport	TVLQP	1:1	0.01	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.000	1.227	0.000	0.000		63.4	
Head	LTE Band 5	10	QPSK	Ceramic	Metal Loop	TVLQP	1:1	0.06	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.001	1.400	0.001	0.001		53.8	
Head	LTE Band 5	10	QPSK	Ceramic	Metal Loop	TVLQP	1:1	0.02	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.000	1.227	0.000	0.000		63.4	
Head	LTE Band 5	10	QPSK	Ceramic	Metal Links	TVLQP	1:1	0.03	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.004	1.400	0.006	0.004		47.8	
Head	LTE Band 5	10	QPSK	Ceramic	Metal Links	TVLQP	1:1	0.09	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.003	1.227	0.004	0.003		48.6	
Head	LTE Band 5	10	QPSK	Titanium	Sport	94XTT	1:1	0.07	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.001	1.400	0.001	0.001		53.8	
Head	LTE Band 5	10	QPSK	Titanium	Sport	94XTT	1:1	0.02	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.002	1.227	0.002	0.001		50.3	
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	94XTT	1:1	0.08	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.001	1.400	0.004	0.003		49.0	
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	94XTT	1:1	0.06	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.002	1.227	0.002	0.001		50.3	
Head	LTE Band 5	10	QPSK	Titanium	Metal Links	94XTT	1:1	0.07	836.50	20525	0.0	25.70	24.24	1	0	Front	10	0.005	1.400	0.007	0.004	A11	46.8	
Head	LTE Band 5	10	QPSK	Titanium	Metal Links	94XTT	1:1	0.06	836.50	20525	1.0	24.70	23.81	25	0	Front	10	0.003	1.227	0.004	0.003		48.6	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Extremity		1.6 W/kg (mW/g)				
Spatial Peak																		Uncontrolled Exposure/General Population		averaged over 1 gram				

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 (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	XDGTX	1:1	0.00	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.070	1.400	0.098	0.025		39.3	
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	XDGTX	1:1	-0.02	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.053	1.227	0.065	0.016		40.1	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	XDGTX	1:1	-0.07	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.123	1.400	0.172	0.043		36.9	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	XDGTX	1:1	0.04	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.097	1.227	0.119	0.030		37.5	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	XDGTX	1:1	-0.13	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.178	1.400	0.249	0.062		35.2	
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	XDGTX	1:1	0.11	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.116	1.227	0.142	0.036		36.7	
Extremity	LTE Band 5	10	QPSK	Ceramic	Sport	V7VCJ	1:1	0.01	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.178	1.400	0.249	0.062		35.2	
Extremity	LTE Band 5	10	QPSK	Ceramic	Sport	V7VCJ	1:1	-0.01	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.141	1.227	0.173	0.043		35.4	
Extremity	LTE Band 5	10	QPSK	Ceramic	Metal Loop	V7VCJ	1:1	0.01	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.232	1.400	0.325	0.081		34.1	
Extremity	LTE Band 5	10	QPSK	Ceramic	Metal Loop	V7VCJ	1:1	0.01	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.194	1.227	0.238	0.060		34.4	
Extremity	LTE Band 5	10	QPSK	Ceramic	Metal Links	V7VCJ	1:1	0.02	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.276	1.400	0.386	0.097	A12	33.3	
Extremity	LTE Band 5	10	QPSK	Ceramic	Metal Links	V7VCJ	1:1	-0.07	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.224	1.227	0.275	0.069		33.8	
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	94XTT	1:1	0.02	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.061	1.400	0.085	0.021		39.9	
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	94XTT	1:1	0.08	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.054	1.227	0.066	0.017		40.0	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	94XTT	1:1	0.03	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.094	1.400	0.132	0.033		38.0	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	94XTT	1:1	-0.07	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.082	1.227	0.101	0.025		38.2	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Links	94XTT	1:1	-0.01	836.50	20525	0.0	25.70	24.24	1	0	Back	0	0.174	1.400	0.244	0.061		35.3	
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Links	94XTT	1:1	-0.05	836.50	20525	1.0	24.70	23.81	25	0	Back	0	0.145	1.227	0.178	0.045		35.7	
ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
Extremity																								
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 #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 66	20	QPSK	Aluminum	Sport	XL14V	1:1	-0.13	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.125	1.143	0.143	0.080		33.2	
Head	LTE Band 66	20	QPSK	Aluminum	Sport	XL14V	1:1	0.00	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.100	1.146	0.115	0.072		33.2	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	XL14V	1:1	-0.07	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.192	1.143	0.219	0.137		31.3	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	XL14V	1:1	-0.06	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.152	1.146	0.174	0.109		31.3	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	XL14V	1:1	0.04	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.169	1.143	0.193	0.121		31.9	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	XL14V	1:1	-0.03	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.137	1.146	0.157	0.098		31.8	
Head	LTE Band 66	20	QPSK	Ceramic	Sport	QXVPH	1:1	0.04	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.158	1.143	0.181	0.113		32.2	
Head	LTE Band 66	20	QPSK	Ceramic	Sport	QXVPH	1:1	-0.02	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.118	1.146	0.135	0.084		32.4	
Head	LTE Band 66	20	QPSK	Ceramic	Metal Loop	QXVPH	1:1	0.01	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.200	1.143	0.229	0.143	A13	31.2	
Head	LTE Band 66	20	QPSK	Ceramic	Metal Loop	QXVPH	1:1	-0.04	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.157	1.146	0.180	0.113		31.2	
Head	LTE Band 66	20	QPSK	Ceramic	Metal Links	QXVPH	1:1	0.07	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.193	1.143	0.221	0.138		31.3	
Head	LTE Band 66	20	QPSK	Ceramic	Metal Links	QXVPH	1:1	0.01	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.138	1.146	0.147	0.092		32.1	
Head	LTE Band 66	20	QPSK	Titanium	Sport	M32F2	1:1	0.04	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.159	1.143	0.182	0.114		32.1	
Head	LTE Band 66	20	QPSK	Titanium	Sport	M32F2	1:1	-0.02	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.128	1.146	0.147	0.092		32.1	
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	M32F2	1:1	0.12	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.174	1.143	0.195	0.122		31.8	
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	M32F2	1:1	-0.02	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.135	1.146	0.155	0.097		31.8	
Head	LTE Band 66	20	QPSK	Titanium	Metal Links	M32F2	1:1	-0.15	1745.00	132322	0.0	25.20	24.62	1	50	Front	10	0.135	1.143	0.154	0.096		32.9	
Head	LTE Band 66	20	QPSK	Titanium	Metal Links	M32F2	1:1	-0.03	1745.00	132322	1.0	24.20	23.61	50	25	Front	10	0.112	1.146	0.128	0.080		32.7	
ANSI/IEEE C95.1.1998 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram		
Spatial Peak Uncontrolled Exposure/General Population																								

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 #	Limit [dBm]	Overall Limit [dBm]
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	N9HWF	1:1	-0.17	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.069	1.143	0.079	0.020		39.7	
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	N9HWF	1:1	-0.09	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.057	1.146	0.065	0.016		39.6	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	N9HWF	1:1	0.03	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.049	1.143	0.056	0.014		41.2	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	N9HWF	1:1	0.02	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.039	1.146	0.045	0.011		41.2	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	N9HWF	1:1	0.04	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.057	1.143	0.065	0.016		40.6	
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	N9HWF	1:1	0.04	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.045	1.146	0.052	0.013		40.6	
Extremity	LTE Band 66	20	QPSK	Ceramic	Sport	6TC2J	1:1	0.02	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.054	1.143	0.073	0.018		40.1	
Extremity	LTE Band 66	20	QPSK	Ceramic	Sport	6TC2J	1:1	-0.13	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.051	1.146	0.058	0.015		40.0	
Extremity	LTE Band 66	20	QPSK	Ceramic	Metal Loop	6TC2J	1:1	-0.15	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.075	1.143	0.086	0.022		39.4	
Extremity	LTE Band 66	20	QPSK	Ceramic	Metal Loop	6TC2J	1:1	0.05	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.051	1.146	0.058	0.015		40.0	
Extremity	LTE Band 66	20	QPSK	Ceramic	Metal Links	6TC2J	1:1	0.01	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.116	1.143	0.131	0.031	A14	37.5	
Extremity	LTE Band 66	20	QPSK	Ceramic	Metal Links	6TC2J	1:1	0.03	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.092	1.146	0.105	0.026		37.5	
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	M32F2	1:1	0.02	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.062	1.143	0.071	0.018		40.2	
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	M32F2	1:1	-0.13	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.053	1.146	0.058	0.015		40.0	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	M32F2	1:1	-0.17	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.069	1.143	0.079	0.020		39.7	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	M32F2	1:1	-0.18	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.053	1.146	0.061	0.015		39.9	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Links	M32F2	1:1	0.06	1745.00	132322	0.0	25.20	24.62	1	50	Back	0	0.047	1.143	0.054	0.014		41.4	
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Links	M32F2	1:1	-0.07	1745.00	132322	1.0	24.20	23.61	50	25	Back	0	0.038	1.146	0.044	0.011		41.3	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Extremity		4.0 W/kg (mW/g)		averaged over 10 grams		
Spatial Peak Uncontrolled Exposure/General Population																								

10.15 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 #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 25	20	QPSK	Aluminum	Sport	123XY	1:1	-0.02	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.238	1.169	0.278	0.174		30.3	
Head	LTE Band 25	20	QPSK	Aluminum	Sport	123XY	1:1	-0.02	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.177	1.183	0.205	0.131		30.5	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	123XY	1:1	-0.09	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.278	1.169	0.325	0.203		28.6	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	123XY	1:1	-0.01	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.112	1.183	0.125	0.157		29.7	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	123XY	1:1	0.05	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.269	1.169	0.314	0.196		29.8	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	123XY	1:1	-0.09	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.201	1.183	0.238	0.149		30.0	
Head	LTE Band 25	20	QPSK	Ceramic	Sport	6TC2J	1:1	0.06	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.298	1.169	0.348	0.218		29.3	
Head	LTE Band 25	20	QPSK	Ceramic	Sport	6TC2J	1:1	0.01	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.218	1.183	0.258	0.161		29.6	
Head	LTE Band 25	20	QPSK	Ceramic	Metal Loop	6TC2J	1:1	0.04	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.330	1.169	0.386	0.241	A15	28.9	
Head	LTE Band 25	20	QPSK	Ceramic	Metal Loop	6TC2J	1:1	0.01	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.251	1.183	0.297	0.186		29.0	
Head	LTE Band 25	20	QPSK	Ceramic	Metal Links	6TC2J	1:1	0.00	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.257	1.169	0.300	0.188		30.0	
Head	LTE Band 25	20	QPSK	Ceramic	Metal Links	6TC2J	1:1	0.04	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.187	1.183	0.221	0.138		30.3	
Head	LTE Band 25	20	QPSK	Titanium	Sport	HS1FT	1:1	0.12	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.241	1.169	0.282	0.176		30.2	
Head	LTE Band 25	20	QPSK	Titanium	Sport	HS1FT	1:1	-0.02	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.179	1.183	0.212	0.133		30.5	
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	HS1FT	1:1	0.08	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.307	1.169	0.359	0.224		29.2	
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	HS1FT	1:1	0.00	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.233	1.183	0.276	0.173		29.3	
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	HS1FT	1:1	0.01	1882.50	26365	0.0	25.20	24.52	1	50	Front	10	0.284	1.169	0.332	0.208		29.5	
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	HS1FT	1:1	-0.03	1882.50	26365	1.0	24.20	23.47	50	0	Front	10	0.212	1.183	0.251	0.157		29.7	
ANSI/IEEE C95.3-1992 - SAFETY LIMIT																								
Spatial Peak																								
Unmodulated Exposure/General Population																								
1.6 W/kg (W/kg)																								
averaged over 1 gram																								

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 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	XDGTX	1:1	0.10	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.054	1.169	0.063	0.016		40.7	
Extremity	LTE Band 25	20	QPSK	Aluminum	Sport	XDGTX	1:1	0.12	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.042	1.183	0.050	0.013		40.7	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	XDGTX	1:1	-0.12	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.024	1.169	0.028	0.007		44.2	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Loop	XDGTX	1:1	0.03	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.020	1.183	0.024	0.006		44.0	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	XDGTX	1:1	0.05	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.055	1.169	0.064	0.015		40.6	
Extremity	LTE Band 25	20	QPSK	Aluminum	Metal Links	XDGTX	1:1	-0.02	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.045	1.183	0.053	0.013		40.4	
Extremity	LTE Band 25	20	QPSK	Ceramic	Sport	C6207	1:1	0.13	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.074	1.169	0.087	0.022	A16	39.3	
Extremity	LTE Band 25	20	QPSK	Ceramic	Sport	C6207	1:1	0.04	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.056	1.183	0.064	0.017		39.5	
Extremity	LTE Band 25	20	QPSK	Ceramic	Metal Loop	C6207	1:1	0.14	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.048	1.169	0.056	0.014		41.2	
Extremity	LTE Band 25	20	QPSK	Ceramic	Metal Loop	C6207	1:1	0.03	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.036	1.183	0.043	0.011		41.4	
Extremity	LTE Band 25	20	QPSK	Ceramic	Metal Links	C6207	1:1	0.02	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.047	1.169	0.055	0.014		41.3	
Extremity	LTE Band 25	20	QPSK	Ceramic	Metal Links	C6207	1:1	0.03	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.038	1.183	0.045	0.011		41.2	
Extremity	LTE Band 25	20	QPSK	Titanium	Sport	RRWRG	1:1	0.10	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.054	1.169	0.063	0.016		40.7	
Extremity	LTE Band 25	20	QPSK	Titanium	Sport	RRWRG	1:1	0.04	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.041	1.183	0.049	0.012		40.9	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Loop	RRWRG	1:1	-0.19	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.046	1.169	0.054	0.014		41.4	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Loop	RRWRG	1:1	0.03	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.033	1.183	0.039	0.010		41.8	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Links	RRWRG	1:1	0.03	1882.50	26365	0.0	25.20	24.52	1	50	Back	0	0.061	1.169	0.071	0.018		40.2	
Extremity	LTE Band 25	20	QPSK	Titanium	Metal Links	RRWRG	1:1	0.01	1882.50	26365	1.0	24.20	23.47	50	0	Back	0	0.047	1.183	0.056	0.014		40.3	
ANSI/IEEE CS3-1992 - SAFETY LIMIT															Extremity								Overall Plimit [dBm]	
Spatial Peak															4.0 W/kg (mW/g)									
Uncontrolled Exposure/General Population															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 Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 7	20	QPSK	Aluminum	Sport	KY3LK	1:1	-0.03	2510.00	20850	0.0	23.70	23.26	1	50	Front	10	0.828	1.107	0.917	0.573		22.9	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	KY3LK	1:1	0.01	2515.00	21100	0.0	23.70	23.27	1	50	Front	10	0.787	1.104	0.869	0.543		23.1	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	KY3LK	1:1	0.02	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	0.785	1.091	0.856	0.535		23.2	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	KY3LK	1:1	0.01	2510.00	20850	0.0	23.70	23.25	50	25	Front	10	0.857	1.109	0.950	0.584		22.7	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	KY3LK	1:1	0.01	2515.00	21100	0.0	23.70	23.26	50	25	Front	10	0.808	1.107	0.894	0.559		23.0	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	KY3LK	1:1	0.02	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	0.846	1.104	0.934	0.584		22.8	
Head	LTE Band 7	20	QPSK	Aluminum	Sport	KY3LK	1:1	0.01	2560.00	21350	0.0	23.70	23.24	100	0	Front	10	0.770	1.112	0.856	0.535		23.2	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	KY3LK	1:1	0.04	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	0.634	1.091	0.692	0.433		24.1	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Loop	KY3LK	1:1	-0.02	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	0.572	1.104	0.631	0.394		24.5	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	KY3LK	1:1	0.02	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	0.579	1.091	0.632	0.395		24.5	
Head	LTE Band 7	20	QPSK	Aluminum	Metal Links	KY3LK	1:1	0.00	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	0.587	1.104	0.648	0.405		24.4	
Head	LTE Band 7	20	QPSK	Ceramic	Sport	W46CP	1:1	0.01	2510.00	20850	0.0	23.70	23.26	1	50	Front	10	1.030	1.107	1.140	0.713		21.9	
Head	LTE Band 7	20	QPSK	Ceramic	Sport	W46CP	1:1	-0.02	2515.00	21100	0.0	23.70	23.27	1	50	Front	10	1.000	1.104	1.104	0.690		22.1	
Head	LTE Band 7	20	QPSK	Ceramic	Sport	W46CP	1:1	0.02	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	1.070	1.091	1.167	0.729		21.8	
Head	LTE Band 7	20	QPSK	Ceramic	Sport	W46CP	1:1	0.04	2510.00	20850	0.0	23.70	23.25	50	25	Front	10	1.040	1.109	1.151	0.721		21.9	
Head	LTE Band 7	20	QPSK	Ceramic	Sport	W46CP	1:1	0.01	2515.00	21100	0.0	23.70	23.26	50	25	Front	10	1.040	1.107	1.151	0.719		21.9	
Head	LTE Band 7	20	QPSK	Ceramic	Sport	W46CP	1:1	0.01	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	1.080	1.104	1.193	0.745	A17	21.8	
Head	LTE Band 7	20	QPSK	Ceramic	Sport	W46CP	1:1	0.04	2560.00	21350	0.0	23.70	23.24	100	25	Front	10	1.070	1.104	1.170	0.731		21.8	
Head	LTE Band 7	20	QPSK	Ceramic	Sport	W46CP	1:1	0.04	2560.00	21350	0.0	23.70	23.24	100	0	Front	10	1.070	1.112	1.086	0.744		21.8	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Loop	W46CP	1:1	0.01	2510.00	20850	0.0	23.70	23.26	1	50	Front	10	0.805	1.107	0.891	0.557		23.0	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Loop	W46CP	1:1	0.07	2515.00	21100	0.0	23.70	23.27	1	50	Front	10	0.774	1.104	0.854	0.534		23.2	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Loop	W46CP	1:1	0.02	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	0.841	1.091	0.918	0.574		22.9	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Loop	W46CP	1:1	0.03	2510.00	20850	0.0	23.70	23.25	50	25	Front	10	0.819	1.109	0.909	0.568		22.9	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Loop	W46CP	1:1	0.07	2515.00	21100	0.0	23.70	23.26	50	25	Front	10	0.787	1.107	0.871	0.544		23.1	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Loop	W46CP	1:1	0.05	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	0.761	1.104	0.840	0.525		23.3	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Loop	W46CP	1:1	-0.01	2560.00	21350	0.0	23.70	23.24	100	0	Front	10	0.783	1.112	0.871	0.544		23.1	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Links	W46CP	1:1	-0.03	2510.00	20850	0.0	23.70	23.26	1	50	Front	10	0.755	1.107	0.836	0.523		23.3	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Links	W46CP	1:1	0.07	2515.00	21100	0.0	23.70	23.27	1	50	Front	10	0.752	1.104	0.830	0.519		23.3	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Links	W46CP	1:1	0.01	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	0.813	1.091	0.887	0.554		23.0	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Links	W46CP	1:1	0.04	2510.00	20850	0.0	23.70	23.25	50	25	Front	10	0.771	1.109	0.857	0.536		23.2	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Links	W46CP	1:1	0.12	2515.00	21100	0.0	23.70	23.26	50	25	Front	10	0.755	1.107	0.836	0.523		23.3	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Links	W46CP	1:1	0.02	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	0.818	1.104	0.903	0.564		23.0	
Head	LTE Band 7	20	QPSK	Ceramic	Metal Links	W46CP	1:1	0.10	2560.00	21350	0.0	23.70	23.24	100	0	Front	10	0.781	1.112	0.868	0.543		23.1	
Head	LTE Band 7	20	QPSK	Titanium	Sport	GR0KM	1:1	-0.03	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	0.716	1.091	0.781	0.488		23.6	
Head	LTE Band 7	20	QPSK	Titanium	Sport	GR0KM	1:1	0.04	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	0.714	1.104	0.788	0.493		23.5	
Head	LTE Band 7	20	QPSK	Titanium	Sport	GR0KM	1:1	0.02	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	0.531	1.091	0.579	0.362		24.9	
Head	LTE Band 7	20	QPSK	Titanium	Sport	GR0KM	1:1	0.00	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	0.525	1.104	0.580	0.363		24.9	
Head	LTE Band 7	20	QPSK	Titanium	Metal Links	GR0KM	1:1	0.02	2560.00	21350	0.0	23.70	23.32	1	50	Front	10	0.522	1.091	0.570	0.356		25.0	
Head	LTE Band 7	20	QPSK	Titanium	Metal Links	GR0KM	1:1	0.00	2560.00	21350	0.0	23.70	23.27	50	25	Front	10	0.508	1.104	0.561	0.351		25.0	
ANSI/IEEE C63.19-2005 SAFETY LIMIT																			Head					
Spatial Peak																			1.6 W/kg (W/m²)					
Unmodulated/General Population																			averaged over 1 gram					

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 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 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	-0.01	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.679	1.159	0.787	0.493		23.8	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	-0.01	2549.50	40185	0.0	25.20	24.37	1	50	Front	10	0.630	1.211	0.763	0.477		23.9	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	-0.01	2593.00	40620	0.0	25.20	24.25	1	50	Front	10	0.585	1.245	0.728	0.455		24.1	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	-0.01	2636.50	41055	0.0	25.20	24.33	1	50	Front	10	0.604	1.222	0.738	0.461		24.1	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	0.00	2680.00	41490	0.0	25.20	24.32	1	50	Front	10	0.604	1.225	0.740	0.463		24.1	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	-0.02	2506.00	39750	1.0	24.20	23.53	50	25	Front	10	0.523	1.167	0.610	0.381		23.9	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	0.00	2549.50	40185	1.0	24.20	23.41	50	25	Front	10	0.445	1.199	0.534	0.334		24.5	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	-0.06	2593.00	40620	1.0	24.20	23.30	50	25	Front	10	0.463	1.230	0.569	0.356		24.2	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	-0.05	2636.50	41055	1.0	24.20	23.33	50	25	Front	10	0.479	1.222	0.585	0.366		24.1	
Head	LTE Band 41	20	QPSK	Aluminum	Sport	Y6VFC	1:1.58	0.04	2680.00	41490	1.0	24.20	23.28	50	25	Front	10	0.454	1.236	0.561	0.351		24.3	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	Y6VFC	1:1.58	-0.01	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.484	1.159	0.561	0.351		25.3	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	Y6VFC	1:1.58	0.00	2549.50	40185	0.0	25.20	24.32	1	50	Front	10	0.376	1.167	0.439	0.274		25.3	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	Y6VFC	1:1.58	0.05	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.546	1.159	0.633	0.396		24.7	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	Y6VFC	1:1.58	0.03	2549.50	40185	0.0	25.20	24.37	1	50	Front	10	0.521	1.211	0.631	0.394		24.8	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	Y6VFC	1:1.58	0.03	2593.00	40620	0.0	25.20	24.25	1	50	Front	10	0.554	1.245	0.690	0.431		24.4	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	Y6VFC	1:1.58	0.02	2636.50	41055	0.0	25.20	24.33	1	50	Front	10	0.553	1.222	0.676	0.423		24.5	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	Y6VFC	1:1.58	0.05	2680.00	41490	0.0	25.20	24.32	1	50	Front	10	0.505	1.225	0.615	0.387		24.8	
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	Y6VFC	1:1.58	0.02	2506.00	39750	1.0	24.20	23.53	50	25	Front	10	0.431	1.167	0.503	0.314		24.7	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	-0.02	2506.00	39750	0.0	25.20	24.36	1	50	Front	10	0.715	1.159	0.825	0.518		23.6	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	0.02	2549.50	40185	0.0	25.20	24.37	1	50	Front	10	0.671	1.211	0.813	0.508		23.7	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	-0.01	2593.00	40620	0.0	25.20	24.35	1	50	Front	10	0.722	1.245	0.899	0.562	A19	23.2	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	-0.01	2636.50	41055	0.0	25.20	24.33	1	50	Front	10	0.694	1.222	0.848	0.530		23.5	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	-0.01	2680.00	41490	0.0	25.20	24.32	1	50	Front	10	0.628	1.225	0.769	0.481		23.9	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	-0.03	2506.00	39750	1.0	24.20	23.53	50	25	Front	10	0.548	1.167	0.640	0.400		23.7	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	-0.01	2549.50	40185	1.0	24.20	23.41	50	25	Front	10	0.527	1.199	0.622	0.395		23.7	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	0.00	2593.00	40620	1.0	24.20	23.30	50	25	Front	10	0.565	1.230	0.695	0.434		23.3	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	0.00	2636.50	41055	1.0	24.20	23.31	50	25	Front	10	0.549	1.222	0.671	0.419		23.5	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	0.03	2680.00	41490	1.0	24.20	23.28	50	25	Front	10	0.493	1.236	0.605	0.381		23.9	
Head	LTE Band 41	20	QPSK	Ceramic	Sport	V42M3	1:1.58	0.01	2506.00	39750	1.0	24.20	23.50	100	0	Front	10	0.567	1.175	0.666	0.416		23.5	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	-0.08	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.640	1.159	0.742	0.464		24.1	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	0.02	2549.50	40185	0.0	25.20	24.37	1	50	Front	10	0.545	1.211	0.659	0.412		24.6	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	0.04	2593.00	40620	0.0	25.20	24.35	1	50	Front	10	0.573	1.245	0.713	0.446		24.2	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	-0.02	2636.50	41055	0.0	25.20	24.33	1	50	Front	10	0.565	1.222	0.690	0.431		24.4	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	0.04	2680.00	41490	0.0	25.20	24.32	1	50	Front	10	0.531	1.225	0.651	0.408		24.6	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	0.01	2506.00	39750	1.0	24.20	23.53	50	25	Front	10	0.514	1.167	0.600	0.375		24.0	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	0.01	2549.50	40185	1.0	24.20	23.41	50	25	Front	10	0.432	1.199	0.518	0.324		24.6	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	0.01	2593.00	40620	1.0	24.20	23.30	50	25	Front	10	0.456	1.230	0.561	0.351		24.3	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	-0.01	2636.50	41055	1.0	24.20	23.31	50	25	Front	10	0.445	1.222	0.544	0.340		24.4	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	V42M3	1:1.58	0.00	2680.00	41490	1.0	24.20	23.28	50	25	Front	10	0.414	1.236	0.512	0.320		24.7	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	V42M3	1:1.58	0.00	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.568	1.159	0.658	0.411		24.6	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	V42M3	1:1.58	0.02	2549.50	40185	0.0	25.20	24.37	1	50	Front	10	0.558	1.211	0.676	0.423		24.5	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	V42M3	1:1.58	0.02	2593.00	40620	0.0	25.20	24.25	1	50	Front	10	0.559	1.245	0.696	0.435		24.3	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	V42M3	1:1.58	0.01	2636.50	41055	0.0	25.20	24.33	1	50	Front	10	0.534	1.222	0.653	0.408		24.6	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	V42M3	1:1.58	0.02	2680.00	41490	0.0	25.20	24.32	1	50	Front	10	0.429	1.225	0.526	0.329		25.6	
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	V42M3	1:1.58	-0.01	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.438	1.167	0.511	0.319		24.7	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.00	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.674	1.159	0.781	0.488		23.8	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.01	2549.50	40185	0.0	25.20	24.37	1	50	Front	10	0.623	1.211	0.754	0.475		24.0	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.01	2593.00	40620	0.0	25.20	24.25	1	50	Front	10	0.607	1.245	0.756	0.473		24.0	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.01	2636.50	41055	0.0	25.20	24.34	1	50	Front	10	0.522	1.222	0.605	0.405		24.6	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.04	2680.00	41490	0.0	25.20	24.32	1	50	Front	10	0.518	1.225	0.635	0.397		24.7	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.02	2506.00	39750	1.0	24.20	23.53	50	25	Front	10	0.529	1.167	0.617	0.386		23.9	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.03	2549.50	40185	1.0	24.20	23.42	50	25	Front	10	0.484	1.199	0.592	0.370		24.0	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.02	2593.00	40620	1.0	24.20	23.30	50	25	Front	10	0.479	1.230	0.589	0.367		24.1	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	-0.03	2636.50	41055	1.0	24.20	23.31	50	25	Front	10	0.417	1.222	0.510	0.319		24.7	
Head	LTE Band 41	20	QPSK	Titanium	Sport	XF19R	1:1.58	0.00	2680.00	41490	1.0	24.20	23.28	50	25	Front	10	0.362	1.236	0.447	0.279		25.2	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	XF19R	1:1.58	0.08	2506.00	39750	0.0	25.20	24.56	1	50	Front	10	0.452	1.159	0.524	0.328		25.6	
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	XF19R	1:1.58	0.03	2506.00	39750	1.0	24.20	23.53	50	25	Front	10	0.360	1.167	0.420	0.263		25.5	
Head	LTE Band 41																							

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 Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [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 #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n71	20	QPSK	Aluminum	Sport	DC27H	1-1	-0.02	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.001	1.422	0.001	0.001		53.7	
Head	NR Band n71	20	QPSK	Aluminum	Sport	DC27H	1-1	0.04	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.002	1.429	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	DC27H	1-1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.002	1.422	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	DC27H	1-1	0.08	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.002	1.429	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	DC27H	1-1	0.04	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.003	1.422	0.004	0.003		48.9	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	DC27H	1-1	-0.13	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.004	1.429	0.006	0.004	A21	47.7	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	DC27H	1-1	0.08	680.50	136300	CP-OFDM	1.5	24.20	22.63	1	1	Front	30	0.003	1.435	0.000	0.000		52.3	
Head	NR Band n71	20	QPSK	Ceramic	Sport	40775	1-1	0.02	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.002	1.422	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Ceramic	Sport	40775	1-1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.001	1.429	0.001	0.001		53.7	
Head	NR Band n71	20	QPSK	Ceramic	Metal Loop	40775	1-1	0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.002	1.422	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Ceramic	Metal Loop	40775	1-1	0.00	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.003	1.429	0.001	0.001		53.7	
Head	NR Band n71	20	QPSK	Ceramic	Metal Links	40775	1-1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.002	1.422	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Ceramic	Metal Links	40775	1-1	0.04	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.003	1.429	0.004	0.003		48.9	
Head	NR Band n71	20	QPSK	Ceramic	Sport	40775	1-1	0.02	680.50	136300	CP-OFDM	1.5	24.20	22.63	1	1	Front	30	0.000	1.435	0.000	0.000		52.3	
Head	NR Band n71	20	QPSK	Titanium	Sport	X9MSF	1-1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.002	1.422	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Titanium	Sport	X9MSF	1-1	0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.002	1.429	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	X9MSF	1-1	-0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.002	1.422	0.003	0.002		50.7	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	X9MSF	1-1	0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.003	1.429	0.004	0.003		48.9	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	X9MSF	1-1	0.05	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Front	30	0.001	1.422	0.001	0.001		53.7	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	X9MSF	1-1	0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Front	30	0.003	1.429	0.004	0.003		48.9	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	X9MSF	1-1	0.07	680.50	136300	CP-OFDM	1.5	24.20	22.63	1	1	Front	30	0.000	1.435	0.000	0.000		52.3	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Head Spatial Peak 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																									

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	MPE [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 #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	7C707	1-1	-0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.048	1.422	0.058	0.017		40.9	
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	7C707	1-1	-0.09	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.069	1.429	0.084	0.021		40.0	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	7C707	1-1	-0.20	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.075	1.422	0.107	0.027		38.9	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	7C707	1-1	0.08	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.083	1.429	0.119	0.030		38.5	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	7C707	1-1	-0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.141	1.422	0.201	0.050		36.2	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	7C707	1-1	0.02	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.122	1.429	0.174	0.044		36.8	
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	7C707	1-1	-0.08	680.50	136300	CP-OFDM	1.5	24.20	22.63	1	1	Back	0	0.088	1.435	0.141	0.035		36.2	
Extremity	NR Band n71	20	QPSK	Ceramic	Sport	WTFICJ	1-1	0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.167	1.422	0.237	0.069		35.5	
Extremity	NR Band n71	20	QPSK	Ceramic	Sport	WTFICJ	1-1	-0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.168	1.425	0.240	0.060		35.4	
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Loop	WTFICJ	1-1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.173	1.422	0.246	0.062		35.3	
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Loop	WTFICJ	1-1	0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.188	1.429	0.270	0.064		34.9	
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Links	WTFICJ	1-1	-0.05	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.237	1.422	0.337	0.084		33.9	
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Links	WTFICJ	1-1	-0.10	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.248	1.429	0.369	0.092	A22	33.5	
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Links	WTFICJ	1-1	0.09	680.50	136300	CP-OFDM	1.5	24.20	22.63	1	1	Back	0	0.169	1.435	0.244	0.061		33.9	
Extremity	NR Band n71	20	QPSK	Titanium	Sport	YTKGL	1-1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.047	1.422	0.067	0.017		41.0	
Extremity	NR Band n71	20	QPSK	Titanium	Sport	YTKGL	1-1	-0.04	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.063	1.429	0.076	0.019		40.4	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	YTKGL	1-1	-0.20	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.083	1.422	0.090	0.023		39.7	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	YTKGL	1-1	0.08	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.083	1.429	0.119	0.030		38.5	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	YTKGL	1-1	-0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.17	1	1	Back	0	0.105	1.422	0.149	0.037		37.5	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	YTKGL	1-1	-0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.15	50	28	Back	0	0.100	1.429	0.143	0.036		37.7	
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	YTKGL	1-1	-0.12	680.50	136300	CP-OFDM	1.5	24.20	22.63	1	1	Back	0	0.053	1.435	0.076	0.019		38.9	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Extremity Spatial Peak 4.0 W/kg (mW/g) averaged over 10 grams									
Uncontrolled Exposure/General Population																									

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	MPE [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 #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n12	15	QPSK	Aluminum	Sport	WCK99	1-1	-0.14	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Front	10	0.002	1.429	0.003	0.002		50.7	
Head	NR Band n12	15	QPSK	Aluminum	Sport	WCK99	1-1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Front	10	0.003	1.449	0.004	0.003		48.9	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	WCK99	1-1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Front	10	0.003	1.429	0.004	0.003		48.9	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	WCK99	1-1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Front	10	0.002	1.449	0.003	0.002		50.6	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	WCK99	1-1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Front	10	0.005	1.429	0.007	0.004		46.7	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	WCK99	1-1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Front	10	0.004	1.449	0.006	0.004		47.6	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	WCK99	1-1	0.09	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	77	Front	10	0.002	1.445	0.003	0.002		49.1	
Head	NR Band n12	15	QPSK	Ceramic	Sport	DXKPD	1-1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Front	10	0.004	1.429	0.006	0.004		63.7	
Head	NR Band n12	15	QPSK	Ceramic	Sport	DXKPD	1-1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Front	10	0.003	1.449	0.006	0.003		63.6	
Head	NR Band n12	15	QPSK	Ceramic	Metal Loop	DXKPD	1-1	0.03	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	77	Front	10	0.003	1.449	0.006	0.003		48.9	
Head	NR Band n12	15	QPSK	Ceramic	Metal Loop	DXKPD	1-1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Front	10	0.003	1.449	0.004	0.003		48.9	
Head	NR Band n12	15	QPSK	Ceramic	Metal Links	DXKPD	1-1	0.09	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	77	Front	10	0.002	1.445	0.003	0.002		49.1	
Head	NR Band n12	15	QPSK	Ceramic	Metal Links	DXKPD	1-1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Front	10	0.003	1.449	0.001	0.001		53.6	
Head	NR Band n12	15	QPSK	Ceramic	Metal Links	DXKPD	1-1	0.06	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	77	Front	10	0.002	1.445	0.003	0.002		49.1	
Head	NR Band n12	15	QPSK	Aluminum	Sport	XRM5F	1-1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Front	10	0.003	1.429	0.004	0.003		48.9	
Head	NR Band n12	15	QPSK	Titanium	Sport	XRM5F	1-1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Front	10	0.003	1.449	0.004	0.003		48.9	
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	XRM5F	1-1	0.21	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Front	10	0.003	1.429	0.004	0.003		48.9	
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	XRM5F	1-1	0.03	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	77	Front	10	0.003	1.449	0.003	0.003		51.6	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	XRM5F	1-1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Front	10	0.005	1.429	0.007	0.004	A23	46.7	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	XRM5F	1-1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Front	10	0.004	1.449	0.006	0.004		47.6	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	XRM5F	1-1	0.17	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	77	Front	10	0.002	1.445	0.003	0.002		49.1	
AND/HERE C96.1 - SAFETY LIMIT																									
Spot Peak																									
Uncorrected Exposure/General Population																									
Head 1.6 W/kg or 1g average over 1 gram																									

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	MPE [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 #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	7C707	1-1	-0.20	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.086	1.429	0.123	0.031		38.3	
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	7C707	1-1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.076	1.449	0.130	0.028		38.8	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loops	7C707	1-1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.211	1.429	0.302	0.076		34.4	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loops	7C707	1-1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.213	1.449	0.308	0.077		34.3	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loops	7C707	1-1	0.00	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	1	Back	0	0.073	1.445	0.105	0.026		37.5	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	7C707	1-1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.197	1.429	0.282	0.071		34.7	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	7C707	1-1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.201	1.449	0.291	0.073		34.6	
Extremity	NR Band n12	15	QPSK	Ceramic	Sport	GW3V	1-1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.186	1.429	0.266	0.067		35.0	
Extremity	NR Band n12	15	QPSK	Ceramic	Sport	GW3V	1-1	0.00	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.187	1.440	0.271	0.068		34.9	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Loops	GW3V	1-1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.292	1.429	0.417	0.104		33.0	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Loops	GW3V	1-1	0.11	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.293	1.449	0.422	0.106		33.0	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Links	GW3V	1-1	-0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.315	1.429	0.450	0.113	A24	32.7	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Links	GW3V	1-1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.271	1.449	0.393	0.098		33.3	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Links	GW3V	1-1	0.06	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	1	Back	0	0.186	1.445	0.269	0.067		33.4	
Extremity	NR Band n12	15	QPSK	Titanium	Sport	YTKGL	1-1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.070	1.429	0.100	0.025		39.2	
Extremity	NR Band n12	15	QPSK	Titanium	Sport	YTKGL	1-1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.071	1.449	0.103	0.026		39.1	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loops	YTKGL	1-1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.085	1.429	0.126	0.024		37.8	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loops	YTKGL	1-1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.084	1.449	0.136	0.034		37.9	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	YTKGL	1-1	0.15	707.50	141500	DFT-s-OFDM	0.0	25.70	24.15	1	77	Back	0	0.229	1.429	0.327	0.082		34.1	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	YTKGL	1-1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.09	36	22	Back	0	0.191	1.449	0.277	0.069		34.8	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	YTKGL	1-1	0.00	707.50	141500	CP-OFDM	1.5	24.20	22.60	1	1	Back	0	0.105	1.445	0.152	0.038		35.9	
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	MPE [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 #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n14	10	QPSK	Aluminum	Sport	WCK9	1-1	0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.004	1.469	0.006	0.004		47.5	
Head	NR Band n14	10	QPSK	Aluminum	Sport	WCK9	1-1	-0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.004	1.483	0.006	0.004		47.5	
Head	NR Band n14	10	QPSK	Aluminum	Metal Loop	WCK9	1-1	0.05	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.003	1.469	0.004	0.003		48.8	
Head	NR Band n14	10	QPSK	Aluminum	Metal Loop	WCK9	1-1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.001	1.483	0.001	0.001		53.5	
Head	NR Band n14	10	QPSK	Aluminum	Metal Links	WCK9	1-1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.003	1.469	0.004	0.003		48.8	
Head	NR Band n14	10	QPSK	Aluminum	Metal Links	WCK9	1-1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.006	1.483	0.009	0.006	A25	45.7	
Head	NR Band n14	10	QPSK	Aluminum	Metal Links	WCK9	1-1	0.08	793.00	158600	CP-OFDM	1.5	24.20	22.56	1	1	Front	10	0.004	1.459	0.006	0.004		46.6	
Head	NR Band n14	10	QPSK	Ceramic	Sport	GW3V	1-1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.002	1.469	0.003	0.002		50.6	
Head	NR Band n14	10	QPSK	Ceramic	Sport	GW3V	1-1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.000	1.483	0.000	0.000		63.5	
Head	NR Band n14	10	QPSK	Ceramic	Metal Loop	GW3V	1-1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.001	1.469	0.001	0.001		53.6	
Head	NR Band n14	10	QPSK	Ceramic	Metal Loop	GW3V	1-1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.001	1.483	0.001	0.001		53.5	
Head	NR Band n14	10	QPSK	Ceramic	Metal Links	GW3V	1-1	0.05	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.003	1.469	0.004	0.003		48.8	
Head	NR Band n14	10	QPSK	Ceramic	Metal Links	GW3V	1-1	0.11	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.002	1.483	0.003	0.002		50.5	
Head	NR Band n14	10	QPSK	Ceramic	Metal Links	GW3V	1-1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.002	1.469	0.003	0.002		50.6	
Head	NR Band n14	10	QPSK	Titanium	Sport	YTKGL	1-1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.002	1.469	0.003	0.002		50.6	
Head	NR Band n14	10	QPSK	Titanium	Sport	YTKGL	1-1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.002	1.483	0.001	0.002		50.5	
Head	NR Band n14	10	QPSK	Titanium	Metal Loop	YTKGL	1-1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.002	1.469	0.001	0.002		50.6	
Head	NR Band n14	10	QPSK	Titanium	Metal Loop	YTKGL	1-1	-0.20	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.000	1.483	0.000	0.000		53.5	
Head	NR Band n14	10	QPSK	Titanium	Metal Links	YTKGL	1-1	0.05	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Front	10	0.003	1.469	0.004	0.003		48.8	
Head	NR Band n14	10	QPSK	Titanium	Metal Links	YTKGL	1-1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Front	10	0.003	1.483	0.004	0.003		48.8	
Head	NR Band n14	10	QPSK	Titanium	Metal Links	YTKGL	1-1	-0.09	793.00	158600	CP-OFDM	1.5	24.20	22.56	1	1	Front	10	0.003	1.459	0.004	0.003		47.3	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Head 1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																									

10.26 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	MPE [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 #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n14	10	QPSK	Aluminum	Sport	NH9WF	1-1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Back	0	0.078	1.469	0.115	0.020		38.6	
Extremity	NR Band n14	10	QPSK	Aluminum	Sport	NH9WF	1-1	-0.14	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Back	0	0.084	1.483	0.125	0.021		38.3	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Loop	NH9WF	1-1	-0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Back	0	0.140	1.469	0.206	0.052		36.1	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Loop	NH9WF	1-1	-0.07	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Back	0	0.132	1.483	0.196	0.049		36.3	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Links	NH9WF	1-1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Back	0	0.168	1.469	0.247	0.062		35.3	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Links	NH9WF	1-1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	25	14	Back	0	0.179	1.469	0.265	0.066		35.0	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Links	NH9WF	1-1	-0.09	793.00	158600	CP-OFDM	1.5	24.20	22.56	1	1	Back	0	0.120	1.459	0.175	0.044		35.3	
Extremity	NR Band n14	10	QPSK	Ceramic	Sport	VTXKJ	1-1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Back	0	0.192	1.469	0.282	0.071		34.7	
Extremity	NR Band n14	10	QPSK	Ceramic	Sport	VTXKJ	1-1	-0.13	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Back	0	0.209	1.483	0.295	0.074		34.5	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Loop	VTXKJ	1-1	-0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Back	0	0.229	1.469	0.336	0.084		33.9	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Loop	VTXKJ	1-1	-0.14	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Back	0	0.244	1.483	0.362	0.091		33.6	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Links	VTXKJ	1-1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Back	0	0.269	1.469	0.382	0.098	476	12.0	32.9
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Links	VTXKJ	1-1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Back	0	0.250	1.483	0.384	0.096		33.4	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Links	VTXKJ	1-1	-0.10	793.00	158600	CP-OFDM	1.5	24.20	22.56	1	1	Back	0	0.201	1.459	0.209	0.073		33.0	
Extremity	NR Band n14	10	QPSK	Titanium	Sport	RM9SF	1-1	-0.10	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	1	1	Back	0	0.207	1.483	0.211	0.028		32.7	
Extremity	NR Band n14	10	QPSK	Titanium	Sport	RM9SF	1-1	-0.11	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Back	0	0.080	1.483	0.119	0.030		38.5	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	RM9SF	1-1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Back	0	0.144	1.469	0.212	0.053		36.0	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	RM9SF	1-1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Back	0	0.140	1.483	0.206	0.051		36.2	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Links	RM9SF	1-1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.03	1	1	Back	0	0.173	1.469	0.254	0.064		35.2	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Links	RM9SF	1-1	-0.00	793.00	158600	DFT-s-OFDM	0.0	25.70	23.99	25	14	Back	0	0.170	1.483	0.262	0.071		34.7	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Links	RM9SF	1-1	-0.07	793.00	158600	CP-OFDM	1.5	24.20	22.56	1	1	Back	0	0.156	1.483	0.205	0.039		35.8	
AND/SEE CPS 1, 1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure (General Population)																									
0.08 W/kg [mW/g] averaged over 10 grams																									
Extremity																									

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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n26	20	QPSK	Aluminum	Sport	NHWHF	1-1	0.13	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.001	1.306	0.001	0.001		54.1	
Head	NR Band n26	20	QPSK	Aluminum	Sport	NHWHF	1-1	0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.002	1.334	0.003	0.002		51.0	
Head	NR Band n26	20	QPSK	Aluminum	Metal Loop	NHWHF	1-1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.003	1.306	0.004	0.003		49.3	
Head	NR Band n26	20	QPSK	Aluminum	Metal Loop	NHWHF	1-1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.000	1.334	0.000	0.000		64.0	
Head	NR Band n26	20	QPSK	Aluminum	Metal Link	NHWHF	1-1	0.20	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.004	1.306	0.005	0.003	A27	48.1	
Head	NR Band n26	20	QPSK	Aluminum	Metal Link	NHWHF	1-1	0.17	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.006	1.334	0.008	0.005		46.2	
Head	NR Band n26	20	QPSK	Aluminum	Metal Link	NHWHF	1-1	0.05	831.50	166300	CP-OFDM	1.5	24.20	22.95	1	1	Front	10	0.001	1.334	0.001	0.001		52.5	
Head	NR Band n26	20	QPSK	Ceramic	Sport	DN9JIT	1-1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.000	1.306	0.000	0.000		64.1	
Head	NR Band n26	20	QPSK	Ceramic	Sport	DN9JIT	1-1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.000	1.334	0.000	0.000		64.0	
Head	NR Band n26	20	QPSK	Ceramic	Metal Loop	DN9JIT	1-1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.002	1.306	0.003	0.002		51.1	
Head	NR Band n26	20	QPSK	Ceramic	Metal Loop	DN9JIT	1-1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.002	1.334	0.003	0.002		51.0	
Head	NR Band n26	20	QPSK	Ceramic	Metal Link	DN9JIT	1-1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.003	1.306	0.004	0.003		49.3	
Head	NR Band n26	20	QPSK	Ceramic	Metal Link	DN9JIT	1-1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.004	1.334	0.005	0.003		48.0	
Head	NR Band n26	20	QPSK	Ceramic	Metal Link	DN9JIT	1-1	0.09	831.50	166300	CP-OFDM	1.5	24.20	22.95	1	1	Front	10	0.002	1.334	0.003	0.002		49.3	
Head	NR Band n26	20	QPSK	Titanium	Sport	L4305	1-1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.000	1.306	0.000	0.000		64.1	
Head	NR Band n26	20	QPSK	Titanium	Sport	L4305	1-1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.001	1.334	0.001	0.001		54.0	
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	L4305	1-1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.001	1.306	0.001	0.001		54.1	
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	L4305	1-1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.001	1.334	0.001	0.001		54.0	
Head	NR Band n26	20	QPSK	Titanium	Metal Link	L4305	1-1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.003	1.334	0.004	0.003		49.2	
Head	NR Band n26	20	QPSK	Titanium	Metal Link	L4305	1-1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Front	10	0.004	1.306	0.005	0.003		48.1	
Head	NR Band n26	20	QPSK	Titanium	Metal Link	L4305	1-1	0.05	831.50	166300	CP-OFDM	1.5	24.20	22.95	1	1	Front	10	0.002	1.334	0.003	0.002		49.3	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																	Head Spatial Peak 1.6 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 1 gram								

10.28 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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	NR Band n26	20	QPSK	Aluminum	Sport	NHWHF	1-1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.069	1.306	0.090	0.023		39.7	
Extremity	NR Band n26	20	QPSK	Aluminum	Sport	NHWHF	1-1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.074	1.334	0.099	0.025		39.3	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	NHWHF	1-1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.112	1.306	0.146	0.037		37.6	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	NHWHF	1-1	0.11	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.110	1.334	0.147	0.036		37.5	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Link	NHWHF	1-1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.167	1.306	0.218	0.055		35.8	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Link	NHWHF	1-1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.201	1.334	0.268	0.067		34.9	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Link	NHWHF	1-1	0.02	831.50	166300	CP-OFDM	1.5	24.20	22.95	1	1	Back	0	0.105	1.334	0.140	0.035		36.2	
Extremity	NR Band n26	20	QPSK	Ceramic	Sport	DN9JIT	1-1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.175	1.306	0.229	0.057		35.6	
Extremity	NR Band n26	20	QPSK	Ceramic	Sport	DN9JIT	1-1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.183	1.334	0.244	0.061		35.3	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Loop	DN9JIT	1-1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.223	1.306	0.291	0.079		34.6	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Loop	DN9JIT	1-1	0.10	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.222	1.334	0.309	0.077		34.3	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Link	DN9JIT	1-1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.292	1.306	0.381	0.095	A28	33.4	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Link	DN9JIT	1-1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.260	1.334	0.347	0.087		33.8	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Link	DN9JIT	1-1	0.03	831.50	166300	CP-OFDM	1.5	24.20	22.95	1	1	Back	0	0.170	1.334	0.227	0.057		34.2	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	L4305	1-1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.070	1.306	0.091	0.023		39.6	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	L4305	1-1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.073	1.334	0.097	0.024		39.3	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	L4305	1-1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.124	1.306	0.162	0.041		37.1	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	L4305	1-1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.106	1.334	0.141	0.035		37.7	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Link	L4305	1-1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.54	1	1	Back	0	0.136	1.306	0.178	0.045		36.7	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Link	L4305	1-1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.148	1.334	0.191	0.048		36.4	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Link	L4305	1-1	0.19	831.50	166300	CP-OFDM	1.5	24.20	22.95	1	1	Back	0	0.088	1.334	0.117	0.029		37.0	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																	Extremity Spatial Peak 4.0 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 10 grams								

10.29 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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n5	20	QPSK	Aluminum	Sport	GPQ4W	1-1	0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Front	10	0.003	1.318	0.004	0.003		49.3	
Head	NR Band n5	20	QPSK	Aluminum	Sport	GPQ4W	1-1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.002	1.334	0.003	0.002		51.0	
Head	NR Band n5	20	QPSK	Aluminum	Metal Loop	GPQ4W	1-1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Front	10	0.002	1.318	0.003	0.002		51.0	
Head	NR Band n5	20	QPSK	Aluminum	Metal Loop	GPQ4W	1-1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.000	1.334	0.000	0.000		64.0	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	GPQ4W	1-1	0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Front	10	0.003	1.318	0.004	0.003		49.3	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	GPQ4W	1-1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.002	1.334	0.003	0.002		51.0	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	GPQ4W	1-1	0.09	836.50	167300	CP-OFDM	1.5	24.20	22.92	1	1	Front	10	0.002	1.343	0.003	0.002		49.5	
Head	NR Band n5	20	QPSK	Ceramic	Sport	47775	1-1	0.05	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Front	10	0.003	1.318	0.001	0.001		54.0	
Head	NR Band n5	20	QPSK	Ceramic	Sport	47775	1-1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.002	1.334	0.001	0.001		64.0	
Head	NR Band n5	20	QPSK	Ceramic	Metal Loop	47775	1-1	0.05	836.50	167300	CP-OFDM	1.5	24.20	22.92	1	1	Front	10	0.002	1.343	0.003	0.002		49.5	
Head	NR Band n5	20	QPSK	Ceramic	Metal Loop	47775	1-1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Front	10	0.003	1.318	0.000	0.000		64.0	
Head	NR Band n5	20	QPSK	Ceramic	Metal Loop	47775	1-1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.000	1.334	0.000	0.000		64.0	
Head	NR Band n5	20	QPSK	Ceramic	Metal Links	47775	1-1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Front	10	0.000	1.318	0.000	0.000		64.0	
Head	NR Band n5	20	QPSK	Ceramic	Metal Links	47775	1-1	0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.003	1.334	0.000	0.000		54.0	
Head	NR Band n5	20	QPSK	Titanium	Sport	14805	1-1	0.05	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Front	10	0.003	1.318	0.001	0.001		54.0	
Head	NR Band n5	20	QPSK	Titanium	Sport	14805	1-1	0.08	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.001	1.334	0.001	0.001		54.0	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	14805	1-1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Front	10	0.002	1.318	0.003	0.002		51.0	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	14805	1-1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.000	1.334	0.000	0.000		64.0	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	14805	1-1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.40	1	1	Front	10	0.002	1.318	0.003	0.002		51.0	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	14805	1-1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Front	10	0.003	1.334	0.004	0.003	A29	49.2	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	14805	1-1	0.08	836.50	167300	CP-OFDM	1.5	24.20	22.92	1	1	Front	10	0.002	1.343	0.003	0.002		49.5	
AND/SEE CTS 1.1992 - SAFETY LIMIT																									
1.6 W/kg (mW/g) averaged over 1 gram																									
Uncorrelated Exposure/General Population																									

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	MPE [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 Rate (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	NR Band n5	20	QPSK	Aluminum	Sport	H40J7T	1-1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.069	1.318	0.091	0.023		39.6	
Extremity	NR Band n5	20	QPSK	Aluminum	Sport	H40J7T	1-1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.074	1.314	0.099	0.025		39.3	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Loop	H40J7T	1-1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.098	1.318	0.129	0.032		38.1	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Loop	H40J7T	1-1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.099	1.314	0.132	0.031		38.0	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	H40J7T	1-1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.209	1.318	0.275	0.069		34.8	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	H40J7T	1-1	-0.08	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.192	1.314	0.256	0.064		35.1	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	H40J7T	1-1	0.04	836.50	167300	CP-OFDM	1.5	24.20	22.92	1	1	Back	0	0.188	1.343	0.185	0.046		35.0	
Extremity	NR Band n5	20	QPSK	Ceramic	Sport	0N9J7T	1-1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.172	1.318	0.227	0.057		35.7	
Extremity	NR Band n5	20	QPSK	Ceramic	Sport	0N9J7T	1-1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.177	1.314	0.236	0.059		35.5	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Loop	0N9J7T	1-1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.209	1.318	0.264	0.066		35.0	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Loop	0N9J7T	1-1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.210	1.314	0.280	0.070		34.7	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Links	0N9J7T	1-1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.237	1.318	0.312	0.078		34.3	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Links	0N9J7T	1-1	-0.08	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.277	1.314	0.370	0.093	A30	33.5	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Links	0N9J7T	1-1	-0.14	836.50	167300	CP-OFDM	1.5	24.20	22.92	1	1	Back	0	0.157	1.343	0.211	0.053		34.9	
Extremity	NR Band n5	20	QPSK	Titanium	Sport	L4305	1-1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.067	1.318	0.088	0.022		39.7	
Extremity	NR Band n5	20	QPSK	Titanium	Sport	L4305	1-1	-0.12	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.072	1.314	0.096	0.024		39.4	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	L4305	1-1	-0.16	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.060	1.318	0.116	0.020		38.5	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	L4305	1-1	-0.18	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.097	1.314	0.129	0.032		38.1	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	L4305	1-1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.50	1	1	Back	0	0.212	1.318	0.279	0.070		34.7	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	L4305	1-1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.45	50	28	Back	0	0.234	1.314	0.312	0.078		34.3	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	L4305	1-1	-0.13	836.50	167300	CP-OFDM	1.5	24.20	22.92	1	1	Back	0	0.107	1.343	0.144	0.036		36.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams							
Spatial Peak Uncontrolled Exposure/General Population																									

10.31 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	MPE [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 Rate (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n66	20	QPSK	Aluminum	Sport	WCK09	1-1	0.08	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.144	1.169	0.168	0.105		32.5	
Head	NR Band n66	20	QPSK	Aluminum	Sport	WCK09	1-1	0.06	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.146	1.202	0.175	0.109		32.3	
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	WCK09	1-1	0.05	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.171	1.169	0.200	0.125		31.7	
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	WCK09	1-1	0.01	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.207	1.202	0.237	0.136		30.0	
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	WCK09	1-1	0.01	1745.00	349000	CP-OFDM	1.5	23.70	22.98	1	1	Front	10	0.177	1.180	0.150	0.094		31.5	
Head	NR Band n66	20	QPSK	Aluminum	Metal Links	WCK09	1-1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.142	1.169	0.166	0.104		32.5	
Head	NR Band n66	20	QPSK	Aluminum	Metal Links	WCK09	1-1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.166	1.202	0.175	0.109		32.3	
Head	NR Band n66	20	QPSK	Ceramic	Sport	740Z7M	1-1	0.01	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.126	1.169	0.147	0.092		33.1	
Head	NR Band n66	20	QPSK	Ceramic	Sport	740Z7M	1-1	0.04	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.139	1.202	0.167	0.104		32.5	
Head	NR Band n66	20	QPSK	Ceramic	Metal Loop	740Z7M	1-1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.244	1.169	0.274	0.171		30.4	
Head	NR Band n66	20	QPSK	Ceramic	Metal Loop	740Z7M	1-1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.269	1.202	0.281	0.229	A31	29.1	
Head	NR Band n66	20	QPSK	Ceramic	Metal Loop	740Z7M	1-1	0.11	1745.00	349000	CP-OFDM	1.5	23.70	22.98	1	1	Front	10	0.181	1.180	0.214	0.134		29.9	
Head	NR Band n66	20	QPSK	Ceramic	Metal Links	740Z7M	1-1	0.04	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.217	1.169	0.300	0.189		30.0	
Head	NR Band n66	20	QPSK	Ceramic	Metal Links	740Z7M	1-1	0.04	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.209	1.202	0.251	0.157		30.7	
Head	NR Band n66	20	QPSK	Titanium	Sport	9209W	1-1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.114	1.169	0.133	0.083		33.5	
Head	NR Band n66	20	QPSK	Titanium	Sport	9209W	1-1	0.09	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.129	1.202	0.155	0.097		32.8	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	9209W	1-1	0.07	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.183	1.169	0.214	0.134		31.4	
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	9209W	1-1	0.03	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.183	1.202	0.220	0.138		31.3	
Head	NR Band n66	20	QPSK	Titanium	Metal Links	9209W	1-1	-0.04	1745.00	349000	CP-OFDM	1.5	23.70	22.98	1	1	Front	10	0.110	1.180	0.130	0.081		32.1	
Head	NR Band n66	20	QPSK	Titanium	Metal Links	9209W	1-1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Front	10	0.168	1.169	0.196	0.123		31.8	
Head	NR Band n66	20	QPSK	Titanium	Metal Links	9209W	1-1	0.07	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Front	10	0.166	1.202	0.200	0.125		31.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak Uncontrolled Exposure/General Population																									

10.32 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	MPE [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 Rate (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	NR Band n66	20	QPSK	Aluminum	Sport	WCK09	1-1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.066	1.169	0.077	0.025		39.8	
Extremity	NR Band n66	20	QPSK	Aluminum	Sport	WCK09	1-1	-0.13	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Back	0	0.064	1.202	0.077	0.019		39.8	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Loop	WCK09	1-1	0.03	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.046	1.169	0.054	0.014		41.4	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Loop	WCK09	1-1	0.07	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Back	0	0.041	1.202	0.045	0.012		41.8	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	WCK09	1-1	0.08	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.071	1.169	0.083	0.021		39.5	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	WCK09	1-1	0.01	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.060	1.202	0.077	0.019		40.1	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	WCK09	1-1	0.08	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.049	1.169	0.083	0.021		39.3	
Extremity	NR Band n66	20	QPSK	Ceramic	Sport	4U775	1-1	0.16	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.070	1.169	0.082	0.021		39.6	
Extremity	NR Band n66	20	QPSK	Ceramic	Sport	4U775	1-1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.071	1.202	0.084	0.021		39.5	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Loop	4U775	1-1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.049	1.169	0.083	0.021	A32	40.3	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Loop	4U775	1-1	0.17	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Back	0	0.133	1.202	0.160	0.040		36.7	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Links	4U775	1-1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.049	1.169	0.083	0.021		40.3	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Links	4U775	1-1	0.17	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.061	1.169	0.077	0.019		41.4	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Links	4U775	1-1	0.20	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Back	0	0.074	1.202	0.089	0.022		40.2	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	7FN1K	1-1	0.08	1745.00	349000	CP-OFDM	1.5	23.70	22.98	1	1	Back	0	0.062	1.169	0.077	0.019		40.0	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	7FN1K	1-1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Back	0	0.062	1.202	0.075	0.019		40.0	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	7FN1K	1-1	0.08	1745.00	349000	CP-OFDM	1.5	23.70	22.98	1	1	Back	0	0.062	1.180	0.050	0.013		40.3	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	7FN1K	1-1	0.09	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.061	1.202	0.067	0.016		40.5	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	7FN1K	1-1	0.07	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.066	1.202	0.067	0.017		40.4	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Links	7FN1K	1-1	0.06	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.52	1	1	Back	0	0.053	1.169	0.062	0.016		40.8	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Links	7FN1K	1-1	0.09	1745.00	349000	DFT-s-OFDM	0.0	25.20	24.40	50	28	Back	0	0.059	1.202	0.066	0.017		40.5	
AND/ENR C803.1.1992 - SAFETY LIMIT																			Extremity						
Spot/Fast																			Averaged over 10 grams						
Uncontrolled Exposure-General Population																									

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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n25	20	QPSK	Aluminum	Sport	59173	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.172	1.216	0.209	0.131		31.5	
Head	NR Band n25	20	QPSK	Aluminum	Sport	59173	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.159	1.225	0.195	0.122		31.8	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	59173	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.244	1.216	0.297	0.186		30.0	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	59173	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.165	1.225	0.195	0.123		29.6	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	59173	1:1	0.02	1882.50	376500	CP-OFDM	1.5	23.70	22.73	1	1	Front	10	0.187	1.250	0.234	0.146		29.6	
Head	NR Band n25	20	QPSK	Aluminum	Metal Links	59173	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.157	1.216	0.191	0.119		31.9	
Head	NR Band n25	20	QPSK	Aluminum	Metal Links	59173	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.181	1.225	0.222	0.139		31.3	
Head	NR Band n25	20	QPSK	Ceramic	Sport	40775	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.202	1.216	0.246	0.154		30.8	
Head	NR Band n25	20	QPSK	Ceramic	Sport	40775	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.226	1.225	0.277	0.173		30.3	
Head	NR Band n25	20	QPSK	Ceramic	Metal Loop	40775	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.277	1.216	0.337	0.211		29.5	
Head	NR Band n25	20	QPSK	Ceramic	Metal Loop	40775	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.278	1.225	0.341	0.213		29.4	
Head	NR Band n25	20	QPSK	Ceramic	Metal Loop	40775	1:1	0.03	1882.50	376500	CP-OFDM	1.5	23.70	22.73	1	1	Front	10	0.188	1.250	0.248	0.155		29.3	
Head	NR Band n25	20	QPSK	Ceramic	Metal Links	40775	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.184	1.216	0.224	0.140		31.2	
Head	NR Band n25	20	QPSK	Ceramic	Metal Links	40775	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.187	1.225	0.229	0.143		31.3	
Head	NR Band n25	20	QPSK	Titanium	Sport	3PMAC	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.192	1.216	0.233	0.146		31.1	
Head	NR Band n25	20	QPSK	Titanium	Sport	3PMAC	1:1	0.17	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.187	1.225	0.229	0.143		31.1	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	3PMAC	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.179	1.216	0.208	0.127		32.4	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	3PMAC	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.205	1.225	0.261	0.206	A33	29.2	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	3PMAC	1:1	-0.03	1882.50	376500	CP-OFDM	1.5	23.70	22.73	1	1	Front	10	0.195	1.250	0.244	0.153		29.4	
Head	NR Band n25	20	QPSK	Titanium	Metal Links	3PMAC	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Front	10	0.185	1.216	0.225	0.141		31.2	
Head	NR Band n25	20	QPSK	Titanium	Metal Links	3PMAC	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Front	10	0.220	1.225	0.270	0.169		30.4	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																	Head 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																									

10.34 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	MPE [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 #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	NR Band n25	20	QPSK	Aluminum	Sport	75P6	1:1	0.15	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.067	1.216	0.069	0.017		40.3	
Extremity	NR Band n25	20	QPSK	Aluminum	Sport	75P6	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.067	1.225	0.070	0.018		40.3	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	75P6	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.065	1.216	0.079	0.020		39.7	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	75P6	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.042	1.225	0.051	0.013		41.6	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	75P6	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.055	1.216	0.067	0.017		40.5	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	75P6	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.067	1.225	0.082	0.021		39.6	
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	75P6	1:1	-0.10	1882.50	376500	CP-OFDM	1.5	23.70	22.73	1	1	Back	0	0.034	1.250	0.043	0.011		40.9	
Extremity	NR Band n25	20	QPSK	Ceramic	Sport	40775	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.075	1.216	0.091	0.023		39.1	
Extremity	NR Band n25	20	QPSK	Ceramic	Sport	40775	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.082	1.225	0.100	0.025		38.7	
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Loop	40775	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.034	1.216	0.041	0.010		42.5	
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Loop	40775	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.055	1.225	0.063	0.011		42.4	
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Links	40775	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.072	1.216	0.088	0.022		39.3	
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Links	40775	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.088	1.225	0.108	0.027	A34	38.4	
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Links	40775	1:1	0.01	1882.50	376500	CP-OFDM	1.5	23.70	22.73	1	1	Back	0	0.052	1.250	0.065	0.016		39.1	
Extremity	NR Band n25	20	QPSK	Titanium	Sport	3PMAC	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.063	1.216	0.064	0.016		40.6	
Extremity	NR Band n25	20	QPSK	Titanium	Sport	3PMAC	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.049	1.225	0.060	0.015		40.9	
Extremity	NR Band n25	20	QPSK	Titanium	Sport	3PMAC	1:1	0.09	1882.50	376500	CP-OFDM	1.5	23.70	22.73	1	1	Back	0	0.034	1.250	0.043	0.011		40.9	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	3PMAC	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.033	1.216	0.040	0.010		42.7	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	3PMAC	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.029	1.225	0.036	0.009		43.2	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Links	3PMAC	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.35	1	1	Back	0	0.051	1.216	0.062	0.016		40.8	
Extremity	NR Band n25	20	QPSK	Titanium	Metal Links	3PMAC	1:1	0.14	1882.50	376500	DFT-s-OFDM	0.0	25.20	24.32	50	28	Back	0	0.044	1.225	0.054	0.014		41.4	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																	Extremity 4.0 W/kg (mW/g) averaged over 10 grams								
Spatial Peak Uncontrolled Exposure/General Population																									

FCC ID: BCG-A3587	DUT Type: Watch	RF EXPOSURE PART 1 TEST REPORT										Approved by: Technical Manager									
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REV 25.0
04/09/2026

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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	MPE [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 [SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]		
Head	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	-0.02	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.820	1.169	0.599	0.599	23.1				
Head	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	24.10	23.32	1	53	Front	10	0.793	1.197	0.601	0.563	23.4				
Head	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	-0.01	2560.00	512000	DFT-s-OFDM	0.0	24.10	23.31	1	53	Front	10	0.776	1.199	0.590	0.581	23.2				
Head	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	0.00	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.787	1.180	0.629	0.585	23.2				
Head	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	0.00	2535.00	507000	DFT-s-OFDM	0.0	24.10	23.32	50	28	Front	10	0.810	1.197	0.670	0.606	23.1				
Head	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	0.01	2560.00	512000	DFT-s-OFDM	0.0	24.10	23.30	50	28	Front	10	0.809	1.202	0.672	0.608	23.0				
Head	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	0.01	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.35	100	0	Front	10	0.873	1.180	1.038	0.649	22.8				
Head	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	-0.01	2510.00	502000	CP-OFDM	0.4	23.70	22.80	1	1	Front	10	0.734	1.230	0.903	0.564	23.0				
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	KY3LK	1-1	0.03	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.616	1.169	0.720	0.450	24.3				
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	KY3LK	1-1	0.00	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.658	1.180	0.776	0.485	24.0				
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	KY3LK	1-1	0.05	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.613	1.169	0.717	0.448	24.4				
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	KY3LK	1-1	0.03	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.621	1.180	0.733	0.458	24.3				
Head	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	0.01	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.942	1.169	1.021	0.688	22.5				
Head	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	0.02	2535.00	507000	DFT-s-OFDM	0.0	24.10	23.32	1	53	Front	10	0.910	1.197	1.089	0.681	22.5				
Head	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	-0.02	2560.00	512000	DFT-s-OFDM	0.0	24.10	23.31	1	53	Front	10	0.888	1.199	1.065	0.666	22.6				
Head	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	-0.04	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.962	1.180	1.135	0.709	22.4				
Head	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	0.02	2535.00	507000	DFT-s-OFDM	0.0	24.10	23.32	50	28	Front	10	0.968	1.197	1.147	0.717	22.3				
Head	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	0.02	2560.00	512000	DFT-s-OFDM	0.0	24.10	23.30	50	28	Front	10	0.991	1.202	1.171	0.744	A35	22.2			
Head	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	0.00	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.35	100	0	Front	10	0.909	1.189	1.081	0.676	22.6				
Head	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	0.01	2510.00	502000	CP-OFDM	0.4	23.70	22.80	1	1	Front	10	0.865	1.230	1.064	0.665	22.2				
Head	NR Band n7	20	QPSK	Ceramic	Metal Loop	W4GCP	1-1	0.01	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.683	1.169	0.798	0.499	23.9				
Head	NR Band n7	20	QPSK	Ceramic	Metal Loop	W4GCP	1-1	0.01	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.702	1.180	0.828	0.518	23.7				
Head	NR Band n7	20	QPSK	Ceramic	Metal Loop	W4GCP	1-1	0.00	2535.00	507000	DFT-s-OFDM	0.0	24.10	23.32	50	28	Front	10	0.724	1.197	0.867	0.542	23.5				
Head	NR Band n7	20	QPSK	Ceramic	Metal Loop	W4GCP	1-1	0.02	2560.00	512000	DFT-s-OFDM	0.0	24.10	23.30	50	28	Front	10	0.720	1.202	0.865	0.541	23.5				
Head	NR Band n7	20	QPSK	Ceramic	Metal Loop	W4GCP	1-1	0.01	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.35	100	0	Front	10	0.678	1.189	0.806	0.504	23.9				
Head	NR Band n7	20	QPSK	Ceramic	Metal Links	W4GCP	1-1	0.01	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.668	1.169	0.781	0.488	24.0				
Head	NR Band n7	20	QPSK	Ceramic	Metal Links	W4GCP	1-1	-0.01	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.676	1.180	0.798	0.499	23.9				
Head	NR Band n7	20	QPSK	Titanium	Sport	84XTT	1-1	-0.05	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.783	1.169	0.915	0.572	23.3				
Head	NR Band n7	20	QPSK	Titanium	Sport	84XTT	1-1	0.01	2535.00	507000	DFT-s-OFDM	0.0	24.10	23.32	1	53	Front	10	0.793	1.197	0.949	0.593	23.1				
Head	NR Band n7	20	QPSK	Titanium	Sport	84XTT	1-1	0.01	2560.00	512000	DFT-s-OFDM	0.0	24.10	23.31	1	53	Front	10	0.768	1.199	0.921	0.576	23.3				
Head	NR Band n7	20	QPSK	Titanium	Sport	84XTT	1-1	0.00	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.764	1.180	0.902	0.564	23.4				
Head	NR Band n7	20	QPSK	Titanium	Sport	84XTT	1-1	0.01	2535.00	507000	DFT-s-OFDM	0.0	24.10	23.32	50	28	Front	10	0.787	1.197	0.942	0.589	23.2				
Head	NR Band n7	20	QPSK	Titanium	Sport	84XTT	1-1	0.02	2560.00	512000	DFT-s-OFDM	0.0	24.10	23.30	50	28	Front	10	0.793	1.202	0.905	0.566	23.2				
Head	NR Band n7	20	QPSK	Titanium	Sport	84XTT	1-1	0.00	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.35	100	0	Front	10	0.811	1.189	0.964	0.601	23.1				
Head	NR Band n7	20	QPSK	Titanium	Sport	84XTT	1-1	0.00	2510.00	502000	CP-OFDM	0.4	23.70	22.80	1	1	Front	10	0.746	1.230	0.918	0.574	22.9				
Head	NR Band n7	20	QPSK	Titanium	Metal Loop	84XTT	1-1	0.08	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.999	1.169	0.700	0.438	24.5				
Head	NR Band n7	20	QPSK	Titanium	Metal Loop	84XTT	1-1	0.09	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.997	1.180	0.704	0.440	24.4				
Head	NR Band n7	20	QPSK	Titanium	Metal Links	84XTT	1-1	0.01	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.42	1	53	Front	10	0.959	1.169	0.653	0.408	24.8				
Head	NR Band n7	20	QPSK	Titanium	Metal Links	84XTT	1-1	0.03	2510.00	502000	DFT-s-OFDM	0.0	24.10	23.38	50	28	Front	10	0.984	1.180	0.689	0.411	24.5				
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Head		1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																											

10.36 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	MPE [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 #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	0.01	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.163	1.189	0.194	0.049	35.8		
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	KY3LK	1-1	-0.02	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.60	50	28	Back	0	0.141	1.148	0.162	0.041	36.6		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	KY3LK	1-1	-0.04	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.160	1.189	0.190	0.046	35.9		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	KY3LK	1-1	0.05	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.60	50	28	Back	0	0.217	1.148	0.249	0.062	34.7		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	KY3LK	1-1	0.00	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.284	1.189	0.338	0.085	33.4		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	KY3LK	1-1	0.00	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.60	50	28	Back	0	0.277	1.148	0.261	0.065	34.5		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	KY3LK	1-1	-0.07	2560.00	512000	CP-OFDM	1.5	23.70	22.85	1	1	Back	0	0.171	1.216	0.208	0.052	34.0		
Extremity	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	-0.02	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.335	1.189	0.398	0.100	32.7		
Extremity	NR Band n7	20	QPSK	Ceramic	Sport	W4GCP	1-1	0.05	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.60	50	28	Back	0	0.323	1.148	0.371	0.090	33.0		
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Loop	W4GCP	1-1	-0.03	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.567	1.189	0.674	0.189	30.4		
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Loop	W4GCP	1-1	0.01	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.60	50	28	Back	0	0.491	1.148	0.564	0.141	31.2		
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Links	W4GCP	1-1	-0.04	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.578	1.189	0.687	0.172	A16	30.3	
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Links	W4GCP	1-1	-0.08	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.568	1.148	0.652	0.163	30.3		
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Links	W4GCP	1-1	0.00	2560.00	512000	CP-OFDM	1.5	23.70	22.85	1	1	Back	0	0.303	1.216	0.441	0.110	30.8		
Extremity	NR Band n7	20	QPSK	Titanium	Sport	ZH2NH	1-1	0.00	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.147	1.189	0.163	0.040	36.0		
Extremity	NR Band n7	20	QPSK	Titanium	Sport	ZH2NH	1-1	0.01	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.142	1.148	0.163	0.041	36.6		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	ZH2NH	1-1	0.11	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.137	1.189	0.140	0.035	37.5		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	ZH2NH	1-1	0.10	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.60	50	28	Back	0	0.140	1.148	0.159	0.040	37.2		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	ZH2NH	1-1	0.02	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.45	1	53	Back	0	0.142	1.189	0.147	0.036	37.6		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	ZH2NH	1-1	0.04	2560.00	512000	DFT-s-OFDM	0.0	25.20	24.60	50	28	Back	0	0.161	1.148	0.409	0.112	32.2		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	ZH2NH	1-1	-0.05	2560.00	512000	CP-OFDM	1.5	23.70	22.85	1	1	Back	0	0.202	1.216	0.268	0.065	32.9		
AND/SEE CPS 1.192 - SAFETY LIMIT																							Extremity 4.0 W/kg (m/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 Density [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g W/kg	Power Scaling Factor	Reported 1g W/kg	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	0.04	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.35	1	26	Front	10	0.937	1.084	1.016	0.635	22.7		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	0.02	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.25	1	26	Front	10	0.848	1.109	0.940	0.588	23.0		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.20	1	26	Front	10	0.847	1.122	0.950	0.594	23.0		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	0.01	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.04	1	26	Front	10	0.831	1.164	0.967	0.604	23.9		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	-0.03	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.03	1	26	Front	10	0.753	1.167	0.879	0.549	23.3		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	-0.02	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.45	25	13	Front	10	0.899	1.059	0.952	0.595	22.9		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	-0.01	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.38	25	13	Front	10	0.810	1.102	0.903	0.565	23.2		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.34	25	13	Front	10	0.814	1.112	0.905	0.566	23.2		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	0.03	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	0.847	1.148	0.972	0.608	22.9		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	0.01	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	0.784	1.148	0.900	0.563	23.2		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	-0.02	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.31	50	0	Front	10	0.875	1.094	0.957	0.598	22.9		
Head	NR Band n41	20	QPSK	Aluminum	Sport	2670	1:1	0.04	2506.02	501204	CP-OFDM	0.0	23.70	22.99	1	1	Front	10	0.779	1.178	0.918	0.574	23.1		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	0.03	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.35	1	26	Front	10	0.741	1.084	0.803	0.502	23.7		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	-0.03	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.35	1	26	Front	10	0.703	1.109	0.780	0.488	23.8		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.20	1	26	Front	10	0.713	1.122	0.800	0.500	23.7		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	-0.01	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.04	1	26	Front	10	0.672	1.164	0.782	0.489	23.8		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	0.00	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.03	1	26	Front	10	0.684	1.167	0.780	0.463	24.0		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	-0.01	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.45	25	13	Front	10	0.722	1.059	0.765	0.478	23.9		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	0.03	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.28	25	13	Front	10	0.738	1.102	0.813	0.508	23.6		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.24	25	13	Front	10	0.729	1.112	0.811	0.507	23.6		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	-0.02	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	0.639	1.148	0.734	0.459	24.1		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	0.02	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	0.613	1.148	0.704	0.440	24.3		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	-0.01	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.31	50	0	Front	10	0.689	1.094	0.760	0.475	23.9		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	2670	1:1	0.04	2506.02	501204	CP-OFDM	0.0	23.70	22.99	1	1	Front	10	0.799	1.084	0.866	0.541	23.4		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	0.04	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.25	1	26	Front	10	0.684	1.109	0.759	0.474	23.9		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.20	1	26	Front	10	0.704	1.122	0.790	0.484	23.8		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	0.04	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.04	1	26	Front	10	0.742	1.164	0.864	0.514	23.4		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	0.03	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.03	1	26	Front	10	0.707	1.167	0.819	0.512	23.6		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	0.03	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.45	25	13	Front	10	0.619	1.059	0.867	0.542	23.4		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	-0.01	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.38	25	13	Front	10	0.743	1.102	0.874	0.484	23.8		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.24	25	13	Front	10	0.712	1.112	0.792	0.495	23.8		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	-0.01	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	0.711	1.148	0.816	0.510	23.6		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	2670	1:1	-0.01	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	0.683	1.148	0.792	0.499	23.8		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.04	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.35	1	26	Front	10	0.813	1.094	0.871	0.540	23.5		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.03	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.35	1	26	Front	10	1.000	1.084	1.192	0.745	A37	22.0	
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.02	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.25	1	26	Front	10	0.848	1.109	0.925	0.601	22.3		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.10	1	26	Front	10	0.790	1.122	0.742	0.492	22.0		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.00	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.04	1	26	Front	10	0.862	1.167	0.806	0.479	22.7		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	-0.01	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.03	1	26	Front	10	0.823	1.178	0.811	0.493	22.7		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.00	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.45	25	13	Front	10	1.050	1.059	1.112	0.695	22.0		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	-0.03	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.28	25	13	Front	10	0.988	1.102	1.089	0.691	22.4		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.24	25	13	Front	10	0.912	1.059	1.112	0.716	22.1		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	-0.01	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	1.030	1.148	1.182	0.739	22.0		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.07	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	0.861	1.148	0.988	0.618	22.8		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	-0.01	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.31	50	0	Front	10	0.810	1.094	1.025	0.691	22.3		
Head	NR Band n41	20	QPSK	Ceramic	Sport	V363X	1:1	0.02	2549.49	509898	DFT-s-OFDM	0.0	23.70	22.99	1	1	Front	10	0.843	1.178	1.111	0.694	22.3		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	0.02	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.35	1	26	Front	10	0.860	1.084	0.932	0.583	23.0		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	0.01	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.25	1	26	Front	10	0.751	1.109	0.833	0.521	23.5		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.10	1	26	Front	10	0.697	1.122	0.744	0.485	23.1		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	-0.02	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.04	1	26	Front	10	0.851	1.164	0.991	0.619	22.8		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	0.01	2679.99	535998	DFT-s-OFDM	0.0	23.70	23.03	1	26	Front	10	0.745	1.167	0.869	0.543	23.3		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	0.02	2506.02	501204	DFT-s-OFDM	0.0	23.70	23.45	25	13	Front	10	0.863	1.059	0.914	0.571	23.1		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	-0.03	2549.49	509898	DFT-s-OFDM	0.0	23.70	23.28	25	13	Front	10	0.767	1.102	0.845	0.528	23.5		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	23.70	23.24	25	13	Front	10	0.866	1.112	0.963	0.602	22.9		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	V363X	1:1	0.04	2636.49	527298	DFT-s-OFDM	0.0	23.70	23.10	25	13	Front	10	0.857	1.148	0.984	0.615	22.8		

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	MPE [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 #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	KYSLK	1-1	-0.03	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.301	1.153	0.116	0.029		38.0	
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	KYSLK	1-1	-0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.106	1.143	0.121	0.030		37.9	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	KYSLK	1-1	-0.05	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.135	1.153	0.156	0.039		36.8	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loop	KYSLK	1-1	-0.07	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.156	1.143	0.178	0.045		36.2	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	KYSLK	1-1	-0.02	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.219	1.153	0.253	0.063		34.7	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	KYSLK	1-1	0.02	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.214	1.143	0.245	0.061		34.8	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	KYSLK	1-1	0.04	2506.02	501204	CP-OFDM	1.5	23.70	23.04	1	1	Back	0	0.140	1.164	0.163	0.041		35.1	
Extremity	NR Band n41	20	QPSK	Ceramic	Sport	QWVGK	1-1	0.08	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.241	1.153	0.278	0.070		34.3	
Extremity	NR Band n41	20	QPSK	Ceramic	Sport	QWVGK	1-1	0.00	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.249	1.143	0.285	0.071		34.2	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Loop	QWVGK	1-1	-0.06	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.257	1.153	0.296	0.074		34.0	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Loop	QWVGK	1-1	-0.05	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.248	1.143	0.283	0.071		34.2	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Links	QWVGK	1-1	-0.03	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.350	1.153	0.404	0.101		32.6	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Links	QWVGK	1-1	-0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.357	1.143	0.408	0.102	A38	32.6	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Links	QWVGK	1-1	-0.03	2506.02	501204	CP-OFDM	1.5	23.70	23.04	1	1	Back	0	0.233	1.164	0.271	0.068		32.9	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	WCM7	1-1	-0.05	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.148	1.153	0.171	0.043		36.4	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	WCM7	1-1	-0.03	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.149	1.143	0.170	0.043		36.4	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	WCM7	1-1	-0.04	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.210	1.153	0.242	0.061		34.9	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loop	WCM7	1-1	-0.04	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.221	1.143	0.253	0.063		34.7	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	WCM7	1-1	-0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.58	1	26	Back	0	0.223	1.153	0.257	0.064		34.6	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	WCM7	1-1	-0.01	2506.02	501204	DFT-s-OFDM	0.0	25.20	24.62	25	13	Back	0	0.212	1.143	0.242	0.061		34.9	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	WCM7	1-1	-0.07	2506.02	501204	CP-OFDM	1.5	23.70	23.04	1	1	Back	0	0.162	1.164	0.189	0.047		34.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Extremity 4.0 W/kg (mW/g) averaged over 10 grams										
Spatial Peak Uncontrolled Exposure/General Population																									

10.39 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	QGBWQ	99.76	-0.05	2412	1	1.0	18.00	17.99	Front	10	0.299	1.002	1.002	0.300	0.188	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	QGBWQ	99.76	-0.04	2412	1	1.0	18.00	17.99	Front	10	0.214	1.002	1.002	0.215	0.134	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Links	QGBWQ	99.76	-0.02	2412	1	1.0	18.00	17.99	Front	10	0.156	1.002	1.002	0.157	0.123	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Ceramic	Sport	M2XVT	99.76	-0.04	2412	1	1.0	18.00	17.99	Front	10	0.302	1.002	1.002	0.303	0.189	A39
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Ceramic	Metal Loop	M2XVT	99.76	-0.01	2412	1	1.0	18.00	17.99	Front	10	0.216	1.002	1.002	0.217	0.136	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Ceramic	Metal Links	M2XVT	99.76	-0.01	2412	1	1.0	18.00	17.99	Front	10	0.193	1.002	1.002	0.194	0.121	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	YTXGL	99.76	-0.03	2412	1	1.0	18.00	17.99	Front	10	0.263	1.002	1.002	0.264	0.165	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	YTXGL	99.76	-0.02	2412	1	1.0	18.00	17.99	Front	10	0.191	1.002	1.002	0.192	0.120	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Links	YTXGL	99.76	-0.02	2412	1	1.0	18.00	17.99	Front	10	0.173	1.002	1.002	0.174	0.109	
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 10-40

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	QGBWQ	29.07	-0.00	2412	1	1.0	18.00	17.99	Front	10	0.076	1.002	1.032	0.079	0.049	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	QGBWQ	29.07	-0.04	2412	1	1.0	18.00	17.99	Front	10	0.063	1.002	1.032	0.065	0.041	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Aluminum	Metal Links	QGBWQ	29.07	-0.08	2412	1	1.0	18.00	17.99	Front	10	0.058	1.002	1.032	0.060	0.038	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Ceramic	Sport	M2XVT	29.07	-0.02	2412	1	1.0	18.00	17.99	Front	10	0.086	1.002	1.032	0.089	0.056	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Ceramic	Metal Loop	M2XVT	29.07	-0.09	2412	1	1.0	18.00	17.99	Front	10	0.072	1.002	1.032	0.074	0.046	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Ceramic	Metal Links	M2XVT	29.07	-0.21	2412	1	1.0	18.00	17.99	Front	10	0.063	1.002	1.032	0.065	0.041	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Sport	YTXGL	29.07	-0.03	2412	1	1.0	18.00	17.99	Front	10	0.071	1.002	1.032	0.073	0.046	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	YTXGL	29.07	-0.06	2412	1	1.0	18.00	17.99	Front	10	0.051	1.002	1.032	0.053	0.033	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Titanium	Metal Links	YTXGL	29.07	-0.04	2412	1	1.0	18.00	17.99	Front	10	0.056	1.002	1.032	0.058	0.036	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head 1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																					

Note: The reported SAR for WLAN scenarios with the licensed antenna active was scaled to 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 was tested at 29.07% transmission duty factor due to the software limitation and the cellular antenna was not active.

FCC ID: BCG-A3587	DUT Type: Watch	RF EXPOSURE PART 1 TEST REPORT										Approved by: Technical Manager									
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REV 25.0

04/09/2026

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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 1g-SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g-SAR [W/kg]	Exposure Ratio (1g-SAR)	Plot #
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Sport	0Q6WQ	99.76	0.06	2412	1	1.0	18.00	17.99	Back	0	0.026	1.002	1.002	0.026	0.007	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	0Q6WQ	99.76	-0.01	2412	1	1.0	18.00	17.99	Back	0	0.042	1.002	1.002	0.042	0.011	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Aluminum	Metal Links	0Q6WQ	99.76	-0.02	2412	1	1.0	18.00	17.99	Back	0	0.028	1.002	1.002	0.028	0.007	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Ceramic	Sport	M2XVT	99.76	-0.07	2412	1	1.0	18.00	17.99	Back	0	0.043	1.002	1.002	0.043	0.011	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Ceramic	Metal Loop	M2XVT	99.76	0.02	2412	1	1.0	18.00	17.99	Back	0	0.051	1.002	1.002	0.051	0.013	A40
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Ceramic	Metal Links	M2XVT	99.76	-0.11	2412	1	1.0	18.00	17.99	Back	0	0.042	1.002	1.002	0.042	0.011	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Sport	YTXGL	99.76	0.04	2412	1	1.0	18.00	17.99	Back	0	0.024	1.002	1.002	0.024	0.006	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Metal Loop	YTXGL	99.76	-0.08	2412	1	1.0	18.00	17.99	Back	0	0.044	1.002	1.002	0.044	0.011	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	Titanium	Metal Links	YTXGL	99.76	-0.01	2412	1	1.0	18.00	17.99	Back	0	0.026	1.002	1.002	0.026	0.007	
ANS/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak Uncontrolled Exposure/General Population																Extremity 4.0 W/kg (mW/g) averaged over 10 grams					

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	2G7J0	98.67	0.06	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.121	1.172	1.013	0.144	0.090	A41
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Aluminum	Sport	2G7J0	98.67	-0.10	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.128	1.167	1.013	0.151	0.094	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Aluminum	Sport	2G7J0	98.67	0.02	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.131	1.208	1.013	0.160	0.100	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	98.67	0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.117	1.172	1.013	0.139	0.087	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	98.67	0.01	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.122	1.167	1.013	0.144	0.090	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	98.67	0.08	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.124	1.208	1.013	0.152	0.095	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	2G7J0	98.67	-0.16	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.115	1.172	1.013	0.137	0.086	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	2G7J0	98.67	0.06	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.126	1.167	1.013	0.149	0.093	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	2G7J0	98.67	0.01	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.121	1.208	1.013	0.148	0.093	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	98.67	0.05	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.090	1.172	1.013	0.107	0.067	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	98.67	0.08	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.085	1.167	1.013	0.100	0.063	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	98.67	0.07	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.079	1.208	1.013	0.097	0.061	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	M2XVT	98.67	0.06	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.079	1.172	1.013	0.094	0.059	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	M2XVT	98.67	0.03	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.082	1.167	1.013	0.097	0.061	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	M2XVT	98.67	0.03	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.080	1.208	1.013	0.098	0.061	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	98.67	0.04	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.082	1.172	1.013	0.097	0.061	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	98.67	0.05	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.090	1.167	1.013	0.106	0.066	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	98.67	0.07	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.088	1.208	1.013	0.108	0.068	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	98.67	0.05	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.075	1.172	1.013	0.089	0.056	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	98.67	0.06	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.082	1.167	1.013	0.097	0.061	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	98.67	0.08	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.081	1.208	1.013	0.099	0.062	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	98.67	0.09	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.073	1.172	1.013	0.087	0.054	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	98.67	0.09	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.091	1.167	1.013	0.108	0.068	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	98.67	0.05	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.079	1.208	1.013	0.097	0.061	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	98.67	0.07	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.082	1.172	1.013	0.097	0.061	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	98.67	0.04	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.091	1.167	1.013	0.108	0.068	
Head	5 GHz WIFI / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	98.67	0.08	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.089	1.208	1.013	0.109	0.068	
ANS/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-43

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	2G7J0	29.93	-0.10	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.033	1.172	1.002	0.039	0.024	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	2G7J0	29.93	0.14	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.033	1.167	1.002	0.039	0.024	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	2G7J0	29.93	0.03	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.033	1.208	1.002	0.040	0.025	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	29.93	0.06	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.034	1.172	1.002	0.040	0.025	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	29.93	0.10	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.037	1.167	1.002	0.043	0.027	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	29.93	0.08	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.032	1.208	1.002	0.039	0.024	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	2G7J0	29.93	-0.07	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.034	1.172	1.002	0.040	0.025	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	2G7J0	29.93	0.05	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.033	1.167	1.002	0.039	0.024	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	2G7J0	29.93	0.02	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.024	1.208	1.002	0.029	0.018	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	29.93	0.04	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.024	1.172	1.002	0.028	0.018	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	29.93	0.01	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.026	1.167	1.002	0.030	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	29.93	0.08	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.020	1.208	1.002	0.024	0.015	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	M2XVT	29.93	-0.20	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.023	1.172	1.002	0.027	0.017	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	M2XVT	29.93	0.05	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.024	1.167	1.002	0.028	0.018	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	29.93	0.01	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.015	1.208	1.002	0.031	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	29.93	0.04	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.016	1.172	1.002	0.031	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	29.93	0.02	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.017	1.167	1.002	0.030	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	29.93	0.07	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.015	1.208	1.002	0.031	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	29.93	0.07	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.020	1.172	1.002	0.023	0.014	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	29.93	0.08	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.024	1.167	1.002	0.028	0.018	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	29.93	0.01	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.019	1.208	1.002	0.029	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	29.93	0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.017	1.172	1.002	0.020	0.013	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	29.93	0.01	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.017	1.167	1.002	0.020	0.013	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	29.93	0.04	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.018	1.208	1.002	0.022	0.014	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	29.93	0.08	5300	60	U-NII-2A	6.0	17.00	16.31	Front	10	0.017	1.172	1.002	0.020	0.013	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	29.93	-0.13	5720	144	U-NII-2C	6.0	17.00	16.33	Front	10	0.022	1.167	1.002	0.026	0.016	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	29.93	0.01	5745	149	U-NII-3	6.0	17.00	16.18	Front	10	0.019	1.208	1.002	0.023	0.014	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head						
Uncontrolled Exposure/General Population																16 W/kg/[g] averaged over 1 gram						

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	2G7J0	98.67	0.09	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.008	1.172	1.013	0.009	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	2G7J0	98.67	0.08	5720	144	U-NII-2C	6.0	17.00	16.33	Back	0	0.020	1.167	1.013	0.024	0.006	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	2G7J0	98.67	0.09	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.020	1.208	1.013	0.024	0.006	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	98.67	0.01	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.004	1.172	1.013	0.005	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	98.67	0.01	5720	144	U-NII-2C	6.0	17.00	16.33	Back	0	0.010	1.167	1.013	0.012	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	2G7J0	98.67	0.04	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.013	1.208	1.013	0.016	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	2G7J0	98.67	0.01	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.009	1.172	1.013	0.011	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	2G7J0	98.67	0.05	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.017	1.208	1.013	0.021	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	98.67	0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.006	1.172	1.013	0.007	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	98.67	0.01	5720	144	U-NII-2C	6.0	17.00	16.33	Back	0	0.017	1.167	1.013	0.020	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	M2XVT	98.67	0.09	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.017	1.208	1.013	0.021	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	M2XVT	98.67	0.01	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.021	1.172	1.013	0.025	0.006	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	M2XVT	98.67	0.06	5720	144	U-NII-2C	6.0	17.00	16.33	Back	0	0.015	1.167	1.013	0.018	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	M2XVT	98.67	0.09	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.019	1.208	1.013	0.023	0.006	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	98.67	0.02	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.007	1.172	1.013	0.008	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	M2XVT	98.67	0.01	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.023	1.208	1.013	0.026	0.007	A42
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	98.67	0.04	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.002	1.172	1.013	0.002	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	98.67	0.05	5720	144	U-NII-2C	6.0	17.00	16.33	Back	0	0.020	1.167	1.013	0.024	0.006	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X6CM7	98.67	0.08	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.010	1.208	1.013	0.012	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	98.67	0.06	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.004	1.172	1.013	0.005	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	98.67	0.01	5720	144	U-NII-2C	6.0	17.00	16.33	Back	0	0.008	1.167	1.013	0.009	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X6CM7	98.67	0.09	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.011	1.208	1.013	0.013	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	98.67	0.01	5300	60	U-NII-2A	6.0	17.00	16.31	Back	0	0.002	1.172	1.013	0.002	0.001	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	98.67	0.07	5720	144	U-NII-2C	6.0	17.00	16.33	Back	0	0.019	1.167	1.013	0.022	0.006	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X6CM7	98.67	0.02	5745	149	U-NII-3	6.0	17.00	16.18	Back	0	0.012	1.208	1.013	0.015	0.004	
ANSI/IEEE C55.1.1992 - SAFETY LIMIT																	Extremity 4.0 W/kg (mW/g) averaged over 10 grams					
Spatial Peak																						
Uncontrolled Exposure/General Population																						

10.43 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	GFSK	Aluminum	Sport	Q06WQ	100.00	0.00	2441	39	1	16.50	16.49	Front	10	0.253	1.002	1.000	0.254	0.159	
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Loop	Q06WQ	100.00	-0.02	2441	39	1	16.50	16.49	Front	10	0.202	1.002	1.000	0.202	0.126	
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Links	Q06WQ	100.00	-0.01	2441	39	1	16.50	16.49	Front	10	0.170	1.002	1.000	0.170	0.106	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Sport	QXVPH	100.00	-0.01	2441	39	1	16.50	16.49	Front	10	0.298	1.002	1.000	0.299	0.187	A43
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Loop	QXVPH	100.00	0.00	2441	39	1	16.50	16.49	Front	10	0.239	1.002	1.000	0.239	0.149	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Links	QXVPH	100.00	0.00	2441	39	1	16.50	16.49	Front	10	0.200	1.002	1.000	0.200	0.125	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Sport	YTXGL	100.00	-0.01	2441	39	1	16.50	16.49	Front	10	0.214	1.002	1.000	0.214	0.134	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Metal Loop	YTXGL	100.00	0.01	2441	39	1	16.50	16.49	Front	10	0.164	1.002	1.000	0.164	0.103	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Metal Links	YTXGL	100.00	0.04	2441	39	1	16.50	16.49	Front	10	0.157	1.002	1.000	0.157	0.098	
ANSI/IEEE C55.1.1992 - SAFETY LIMIT																	Head 1.6 W/kg (mW/g) averaged over 1 gram			
Spatial Peak																				
Uncontrolled Exposure/General Population																				

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	GFSK	Aluminum	Sport	Q06WQ	100.00	0.02	2441	39	1	13.00	12.72	Front	10	0.088	1.067	1.000	0.094	0.059	
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Loop	Q06WQ	100.00	0.00	2441	39	1	13.00	12.72	Front	10	0.067	1.067	1.000	0.071	0.044	
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Links	Q06WQ	100.00	0.03	2441	39	1	13.00	12.72	Front	10	0.066	1.067	1.000	0.070	0.044	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Sport	QXVPH	100.00	-0.02	2441	39	1	13.00	12.72	Front	10	0.102	1.067	1.000	0.109	0.068	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Loop	QXVPH	100.00	0.03	2441	39	1	13.00	12.72	Front	10	0.077	1.067	1.000	0.082	0.051	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Links	QXVPH	100.00	0.02	2441	39	1	13.00	12.72	Front	10	0.075	1.067	1.000	0.080	0.050	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Sport	YTXGL	100.00	0.05	2441	39	1	13.00	12.72	Front	10	0.084	1.067	1.000	0.090	0.056	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Metal Loop	YTXGL	100.00	0.01	2441	39	1	13.00	12.72	Front	10	0.062	1.067	1.000	0.066	0.041	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Metal Links	YTXGL	100.00	-0.10	2441	39	1	13.00	12.72	Front	10	0.061	1.067	1.000	0.065	0.041	
ANSI/IEEE C55.1.1992 - SAFETY LIMIT															Head 1.6 W/kg (mW/g) averaged over 1 gram					
Spatial Peak																				
Uncontrolled Exposure/General Population																				

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	GFSK	Aluminum	Sport	Q06WQ	100.00	-0.04	2441	39	1	16.50	16.49	Back	0	0.021	1.002	1.000	0.021	0.005	
Extremity	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Loop	Q06WQ	100.00	-0.06	2441	39	1	16.50	16.49	Back	0	0.038	1.002	1.000	0.038	0.010	
Extremity	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Links	Q06WQ	100.00	0.03	2441	39	1	16.50	16.49	Back	0	0.037	1.002	1.000	0.037	0.009	
Extremity	2.4 GHz Bluetooth	GFSK	Ceramic	Sport	QXVPH	100.00	-0.01	2441	39	1	16.50	16.49	Back	0	0.038	1.002	1.000	0.038	0.010	
Extremity	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Loop	QXVPH	100.00	0.00	2441	39	1	16.50	16.49	Back	0	0.047	1.002	1.000	0.047	0.012	A44
Extremity	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Links	QXVPH	100.00	-0.16	2441	39	1	16.50	16.49	Back	0	0.041	1.002	1.000	0.041	0.010	
Extremity	2.4 GHz Bluetooth	GFSK	Titanium	Sport	YTXGL	100.00	-0.04	2441	39	1	16.50	16.49	Back	0	0.023	1.002	1.000	0.023	0.006	
Extremity	2.4 GHz Bluetooth	GFSK	Titanium	Metal Loop	YTXGL	100.00	0.07	2441	39	1	16.50	16.49	Back	0	0.040	1.002	1.000	0.040	0.010	
Extremity	2.4 GHz Bluetooth	GFSK	Titanium	Metal Links	YTXGL	100.00	-0.08	2441	39	1	16.50	16.49	Back	0	0.035	1.002	1.000	0.035	0.009	
A45/IEEE C95.1 LIMIT - SAFETY LIMIT																				
Spatial Peak															Extremity					
Uncontrolled Exposure/General Population															4.0 W/kg (mW/g)					
															averaged over 10 grams					

10.45 5 GHz 802.15.4 ab-NB SISO Standalone Head SAR

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 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	3QY92	7.60	0.03	5786	Mid	1	16.0	15.93	Front	10	0.005	1.016	1.171	0.006	0.004	A45
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Loop	3QY92	7.60	0.04	5786	Mid	1	16.0	15.93	Front	10	0.003	1.016	1.171	0.004	0.003	
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Links	3QY92	7.60	0.08	5786	Mid	1	16.0	15.93	Front	10	0.002	1.016	1.171	0.002	0.001	
Head	802.15.4 ab-NB	O-QPSK	Ceramic	Sport	QXVPH	7.60	0.07	5786	Mid	1	16.0	15.93	Front	10	0.009	1.016	1.171	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Ceramic	Metal Loop	QXVPH	7.60	0.06	5786	Mid	1	16.0	15.93	Front	10	0.000	1.016	1.171	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Ceramic	Metal Links	QXVPH	7.60	0.06	5786	Mid	1	16.0	15.93	Front	10	0.000	1.016	1.171	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Sport	94XTT	7.60	0.03	5786	Mid	1	16.0	15.93	Front	10	0.001	1.016	1.171	0.001	0.001	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Metal Loop	94XTT	7.60	0.07	5786	Mid	1	16.0	15.93	Front	10	0.000	1.016	1.171	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Metal Links	94XTT	7.60	0.03	5786	Mid	1	16.0	15.93	Front	10	0.000	1.016	1.171	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																				

Note: The reported SAR was scaled to the 8.9% transmission duty factor.

10.46 5 GHz 802.15.4 ab-NB SISO Standalone Extremity SAR

Table 10-49

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	802.15.4 ab-NB	O-QPSK	Aluminum	Sport	3QY92	7.60	0.05	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Loop	3QY92	7.60	0.03	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	A46
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Links	3QY92	7.60	0.07	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Ceramic	Sport	QXVPH	7.60	0.04	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Ceramic	Metal Loop	QXVPH	7.60	0.08	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Ceramic	Metal Links	QXVPH	7.60	0.06	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Sport	94XTT	7.60	0.08	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Metal Loop	94XTT	7.60	0.03	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Metal Links	94XTT	7.60	0.07	5786	Mid	1	16.0	15.93	Back	0	0.000	1.016	1.171	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Extremity 4.0 W/kg (mW/g) averaged over 10 grams							
Spatial Peak Uncontrolled Exposure/General Population																				

Note: The reported SAR was scaled to the 8.9% transmission duty factor.

10.47 NFC Standalone Extremity SAR

Table 10-50

Exposure	Band / Mode	Ant.	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	BCM	Aluminum	Sport	2G7J0	0.01	13.60	Back	0	0.000	0.000	
Extremity	NFC	BCM	Aluminum	Metal Loop	2G7J0	0.05	13.60	Back	0	0.000	0.000	
Extremity	NFC	BCM	Aluminum	Metal Links	2G7J0	0.04	13.60	Back	0	0.000	0.000	
Extremity	NFC	BCM	Ceramic	Sport	V7VCJ	0.01	13.60	Back	0	0.000	0.000	A47
Extremity	NFC	BCM	Ceramic	Metal Loop	V7VCJ	0.04	13.60	Back	0	0.000	0.000	
Extremity	NFC	BCM	Ceramic	Metal Links	V7VCJ	0.02	13.60	Back	0	0.000	0.000	
Extremity	NFC	BCM	Titanium	Sport	94XTT	0.01	13.60	Back	0	0.000	0.000	
Extremity	NFC	BCM	Titanium	Metal Loop	94XTT	0.05	13.60	Back	0	0.000	0.000	
Extremity	NFC	BCM	Titanium	Metal Links	94XTT	0.01	13.60	Back	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Extremity 4.0 W/kg (mW/g) averaged over 10 grams		
Spatial Peak Uncontrolled Exposure/General Population												

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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 IEEE 1528-2013, and 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 frequency bands were greater than or equal to 0.8 W/kg. Please see section 11 for variability analysis.
7. This device has three housing types: Aluminum, Ceramic, 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 W/kg for 1g SAR evaluations and > 1.5 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 ≤ 0.8 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 ≤ 1.20 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.

UWB Notes:

1. 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.

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11 SAR MEASUREMENT VARIABILITY

11.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01, 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	2506.02	501204	NR Band n41, 20 MHz Bandwidth	QPSK, 1 RB, 26 RB Offset	Front	10 mm	1.100	1.020	1.08
2600	2560	21350	LTE Band 7, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	Front	10 mm	1.080	1.060	1.02
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 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	11/2/2025	Annual	11/2/2026	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	3/23/2026	Annual	3/23/2027	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	4/13/2026	Annual	4/13/2027	MY48180366
Agilent	8753ES	5-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MY40030841
Agilent	8753ES	5-Parameter Vector Network Analyzer	10/27/2025	Annual	10/27/2026	US39170118
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	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	8/21/2025	Annual	8/21/2026	1138001
Anritsu	ML2496A	Power Meter	4/6/2046	Annual	4/6/2027	1351001
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1027293
Mini-Circuits	PWR-4GH5	9-KHz-4000MHz USB Power Sensor	1/28/2026	Annual	1/28/2027	11710030062
Insize	1108-150	Insize - Digital Caliper	1/7/2026	Annual	1/7/2027	1410255640
Anritsu	MA24106A	USB Power Sensor	2/20/2026	Annual	2/20/2027	1520501
Anritsu	MA24106A	USB Power Sensor	12/12/2025	Annual	12/12/2026	1344554
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770121
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770096
Thermo Products Inc	23NU21	Long Stem Thermometer	9/30/2024	Biennial	9/30/2026	129319
Control Company	4040	Therm./ Clock/ Humidity Monitor	12/29/2025	Biennial	12/29/2027	250778120
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/24/2025	Biennial	10/24/2027	250652331
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Keysight Technologies	N9020A	MXA Signal Analyzer	6/5/2026	Annual	6/5/2027	MY54500644
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
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	7/22/2025	Annual	7/22/2026	32028
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	ZUDC10-83-5+	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
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	168544
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	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)	3/3/2026	Annual	3/3/2027	1102
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	CLA13	13 MHz SAR Dipole	11/7/2025	Annual	11/7/2026	1004
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Triennial	9/13/2026	1097
SPEAG	D835V2	835 MHz SAR Dipole	10/25/2024	Biennial	10/25/2026	48040
SPEAG	D1750V2	1750 MHz SAR Dipole	11/6/2025	Annual	11/6/2026	1040
SPEAG	D1900V2	1900 MHz SAR Dipole	10/15/2025	Annual	10/15/2026	54030
SPEAG	D1900V2	1900 MHz SAR Dipole	9/7/2023	Triennial	9/7/2026	54181
SPEAG	D2450V2	2450 MHz SAR Dipole	10/23/2024	Biennial	10/23/2026	921
SPEAG	D2450V2	2450 MHz SAR Dipole	11/10/2025	Annual	11/10/2026	855
SPEAG	D2600V2	2600 MHz SAR Dipole	9/12/2023	Triennial	9/12/2026	1069
SPEAG	D2600V2	2600 MHz SAR Dipole	11/10/2025	Annual	11/10/2026	1068
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/8/2024	Biennial	11/8/2026	1066
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/3/2025	Annual	12/3/2026	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2026	Annual	2/6/2027	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/6/2025	Annual	8/6/2026	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/8/2025	Annual	8/8/2026	1681
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/14/2025	Annual	10/14/2026	1237
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/9/2026	Annual	3/9/2027	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/10/2026	Annual	3/10/2027	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/12/2026	Annual	1/12/2027	1465
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2026	Annual	4/13/2027	501
SPEAG	EX3DV3	SAR Probe	9/15/2025	Annual	9/15/2026	7782
SPEAG	EX3DV4	SAR Probe	2/11/2026	Annual	2/11/2027	7308
SPEAG	EX3DV4	SAR Probe	3/10/2026	Annual	3/10/2027	7421
SPEAG	EX3DV4	SAR Probe	2/12/2026	Annual	2/12/2027	7499
SPEAG	EX3DV4	SAR Probe	8/11/2025	Annual	8/11/2026	7668
SPEAG	EX3DV4	SAR Probe	2/12/2026	Annual	2/12/2027	7427
SPEAG	EX3DV4	SAR Probe	10/10/2025	Annual	10/10/2026	3746
SPEAG	EX3DV4	SAR Probe	3/10/2026	Annual	3/10/2027	7551
SPEAG	EX3DV4	SAR Probe	8/13/2025	Annual	8/13/2026	3837
SPEAG	EX3DV4	SAR Probe	12/23/2025	Annual	12/23/2026	7490

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

SAR Uncertainty Budget based on IEEE 1528-2013 and SPEAG (0.3 GHz to 6 GHz)

a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	1g ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	6.55	N	1	1	1	6.55	6.55	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	2.00	R	1.73	1	1	1.15	1.15	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
RF ambient conditions - reflections	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	0.80	R	1.73	1	1	0.46	0.46	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	4.00	R	1.73	1	1	2.31	2.31	∞
Test sample related									
Test sample positioning	E.4.2	3.12	N	1	1	1	3.12	3.12	35
Device holder uncertainty	E.4.1	1.67	N	1	1	1	1.67	1.67	5
Output power variation - SAR drift	E.2.9	5.00	R	1.73	1	1	2.89	2.89	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	7.60	R	1.73	1	1	4.39	4.39	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	2.50	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement	E.3.3	2.50	N	1	0.23	0.26	0.58	0.65	∞
Liquid conductivity - temperature uncertainty	E.3.4	3.36	R	1.73	0.78	0.71	1.51	1.38	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.77	R	1.73	0.23	0.26	0.10	0.12	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							11.0	10.8	40
Expanded uncertainty (95% confidence interval)							21.9	21.6	

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SAR Uncertainty Budget based on IEC/IEEE 62209-1528:2020 (4 MHz to 10 GHz)

Symbol	Input quantity X (source of uncertainty)	Ref.	Prob. Dist. PDFi	Unc. a(xi)	Div. qi	u(xi) = a(xi)/qi	ci (1g)	ci (10g)	u(y) = cixu(xi) 1g (± %)	u(y) = cixu(xi) 10g (± %)	vi
Measurement system errors											
CF	Probe calibration	8.4.1.1	N (k=2)	9.30	1	9.30	1	1	9.30	9.30	∞
CFdrift	Probe calibration drift	8.4.1.2	R	1.70	1.73	0.98	1	1	0.98	0.98	∞
LIN	Probe linearity and detection limit	8.4.1.3	R	4.70	1.73	2.71	1	1	2.71	2.71	∞
BBS	Broadband signal	8.4.1.4	R	2.80	1.73	1.62	1	1	1.62	1.62	∞
ISO	Probe isotropy	8.4.1.5	R	7.60	1.73	4.39	1	1	4.39	4.39	∞
DAE	Other probe and data acquisition errors	8.4.1.6	N	2.40	1	2.40	1	1	2.40	2.40	∞
AMB	RF ambient and noise	8.4.1.7	N	1.80	1	1.80	1	1	1.80	1.80	∞
Δxyz	Probe positioning errors	8.4.1.8	N	0.30	1	0.30	1	1	0.30	0.30	∞
DAT	Data processing errors	8.4.1.9	N	3.50	1.00	3.50	1	1	3.50	3.50	∞
Phantom and device (DUT or validation antenna) errors											
LIQ(σ)	Measurement of phantom conductivity	8.4.2.1	N	2.50	1	2.50	0.78	0.71	1.95	1.78	∞
LIQ(Tc)	Temperature effects (medium)	8.4.2.2	R	5.40	1.73	3.12	0.78	0.71	2.43	2.21	∞
EPS	Shell permittivity	8.4.2.3	R	14.00	1.73	8.08	0.5	0.5	4.04	4.04	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	8.4.2.4	N	2.00	1	2.00	2	2	4.00	4.00	∞
Dxyz	Repeatability of positioning the DUT or source against the phantom	8.4.2.5	N	3.12	1	3.12	1	1	3.12	3.12	35
H	Device holder effects	8.4.2.6	N	1.67	1	1.67	1	1	1.67	1.67	5
MOD	Effect of operating mode on probe sensitivity	8.4.2.7	R	2.40	1.73	1.39	1	1	1.39	1.39	∞
TAS	Time-average SAR	8.4.2.8	R	1.73	1.73	1.00	1	1	1.00	1.00	∞
RFdrift	Variation in SAR due to drift in output power of DUT	8.4.2.9	N	2.50	1	2.50	1	1	2.50	2.50	∞
VAL	Validation antenna uncertainty (validation measurement only)	8.4.2.10	N	0.00	1	0.00	1	1	0.00	0.00	∞
Pin	Uncertainty in accepted power (validation measurement only)	8.4.2.11	N	0.00	1	0.00	1	1	0.00	0.00	∞
Corrections to the SAR result (if applied)											
C(ε',σ)	Phantom deviation from target	8.4.3.1	R	5.00	1.73	2.89	0.64	0.43	1.85	1.24	∞
C(R)	SAR scaling	8.4.3.2	R	0.00	1.73	0.00	1	1	0.00	0.00	∞
u(ASAR)	Combined uncertainty								14.32	14.20	40
U	Expanded uncertainty and effective degrees of freedom								28.65	28.40	

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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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