

Revision Summary

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-	Initial Release	07/27/2026	WKR0000017010
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FCC ID: BCG-A3582	DUT Type: Watch	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Voice/Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Voice/Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Voice/Data	1852.5 - 1907.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685.0 MHz
2.4 GHz 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
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:

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 FDD Band n7	1.90	0.77		1.20	2.27	
NR TDD Band n41	2.10	0.73		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	49.20	34.50
LTE Band 12	24.50	47.80	33.20
LTE Band 17	24.50	N/A	N/A
LTE Band 13	24.50	50.70	32.90
LTE Band 14	24.50	46.80	33.80
LTE Band 26	24.50	51.10	33.70
LTE Band 5	24.50	49.10	33.60
LTE Band 4	24.00	N/A	N/A
LTE Band 66	24.00	32.90	37.00
LTE Band 2	24.00	N/A	N/A
LTE Band 25	24.00	29.90	37.30
LTE Band 7	24.00	22.10	33.40
LTE Band 41	22.00	22.50	32.60
NR Band n71	24.50	50.90	35.00
NR Band n12	24.50	51.30	34.80
NR Band n14	24.50	46.00	32.70
NR Band n26	24.50	46.50	33.70
NR Band n5	24.50	51.20	34.80
NR Band n66	24.00	32.10	36.10
NR Band n2	24.00	N/A	N/A
NR Band n25	24.00	30.40	35.90
NR Band n7	24.00	22.40	31.70
NR Band n41	24.00	22.20	32.90

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.

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.

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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	24.00
	Nominal	22.10
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	24.30
	Nominal	22.40
NR TDD Band n41	Max allowed power	25.20
	Nominal	24.00
NR TDD Band n41 Reduced*	Max allowed power	24.30
	Nominal	22.20

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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	15.75	14.75	15.75	14.75
		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	14.50	13.50	14.50	13.50
		12	18.00	17.00	14.50	13.50	14.50	13.50
		13	13.75	12.75	4.00	3.00	4.00	3.00
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	17.00	16.00	17.00	16.00		
		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.

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 1-1
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Extremity
1	Cellular + 2.4 GHz WI-FI + NFC*	Yes*	Yes
2	Cellular+ 5 GHz WI-FI + NFC*	Yes*	Yes
3	Cellular + 2.4 GHz Bluetooth + NFC*	Yes*	Yes
4	Cellular+ 802.15.4 ab-NB + NFC*	Yes*	Yes
5	Cellular + UWB + NFC*	Yes*	Yes
6	Cellular + 2.4 GHz WI-FI + 802.15.4 ab-NB + NFC*	Yes*	Yes
7	Cellular + 2.4 GHz WI-FI + UWB + NFC*	Yes*	Yes
8	Cellular + 2.4 GHz Bluetooth + 5 GHz WI-FI + NFC*	Yes*	Yes
9	Cellular + 2.4 GHz Bluetooth + 802.15.4 ab-NB + NFC*	Yes*	Yes
10	Cellular + 2.4 GHz Bluetooth + UWB + NFC*	Yes*	Yes
13	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, D05v02r05 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance, Wrist-worn Device Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- IEEE 1528-2013
- 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	1C2604100030-18.BCG
RF Exposure Part 2 Test Report	1C2604100030-20.BCG
RF Exposure Compliance Summary Report	1C2604100030-21.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 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	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.

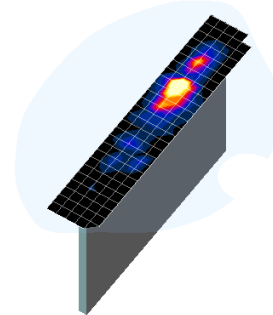


Figure 4-1
Sample SAR Area Scan

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 $\Delta z_{\text{zoom}}(n)$	Graded Grid		
				$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤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.

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

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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.

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.

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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 Pmax 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	24.40	0	0
	1	50	24.43		0
	1	99	24.41		0
	50	0	23.53	0-1	1
	50	25	23.51		1
	50	50	23.49		1
	100	0	23.52		1
	15	0	24.47	0-1	0
	15	42	24.46		0
	15	85	24.41		0
	27	0	23.50	0-2	1
	27	37	23.49		1
	27	73	23.41		1
16QAM	1	0	23.34	0-2	1
	1	50	23.36		1
	1	99	23.33		1
	15	0	23.48	0-3	1
	15	42	23.42		1
	15	85	23.45		1
	27	0	22.31	0-5	2
	27	37	22.31		2
	27	73	22.29		2

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8.1.2

LTE Band 12

Table 8-2

LTE Band 12 Measured Pmax 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	24.21	0	0
	1	25	24.23		0
	1	49	24.24		0
	25	0	23.49	0-1	1
	25	12	23.35		1
	25	25	23.36		1
	50	0	23.38		1
	15	0	23.41	0-1	1
	15	17	23.25		1
	15	35	23.38		1
	27	0	23.34	0-2	1
	27	12	23.31		1
	27	23	23.33		1
16QAM	1	0	22.96	0-2	1
	1	25	23.00		1
	1	49	22.98		1
	25	0	22.11	0-3	2
	25	12	22.08		2
	25	25	22.01		2
	15	0	22.14	0-5	2
	15	17	22.09		2
	15	35	22.10		2
	27	0	22.07		2
	27	12	22.05		2
	27	23	22.00		2

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8.1.3

LTE Band 13

Table 8-3
LTE Band 13 Measured Pmax 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	24.21	0	0
	1	25	24.18		0
	1	49	24.20		0
	25	0	23.23	0-1	1
	25	12	23.24		1
	25	25	23.28		1
	50	0	23.26	0-1	1
	15	0	23.24		1
	15	17	23.27		1
	15	35	23.25	0-2	1
	27	0	23.20		1
	27	12	23.19		1
	27	23	23.24	0-2	1
	1	0	22.98		1
	1	25	22.94		1
16QAM	1	49	22.95	0-2	1
	25	0	21.97	0-3	2
	25	12	22.00		2
	25	25	22.01		2
	15	0	22.06	0-5	2
	15	17	21.94		2
	15	35	21.93		2
	27	0	21.84		2
	27	12	21.91		2
	27	23	21.98		2

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8.1.4

LTE Band 14

Table 8-4

LTE Band 14 Measured Pmax 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	24.21	0	0
	1	25	24.24		0
	1	49	24.27		0
	25	0	23.32	0-1	1
	25	12	23.27		1
	25	25	23.29		1
	50	0	23.28		1
	15	0	23.22	0-1	1
	15	17	23.24		1
	15	35	23.27		1
	27	0	23.26	0-2	1
	27	12	23.22		1
	27	23	23.26		1
16QAM	1	0	23.00	0-2	1
	1	25	22.97		1
	1	49	22.94		1
	25	0	22.12	0-3	2
	25	12	22.01		2
	25	25	22.03		2
	15	0	22.05	0-5	2
	15	17	21.98		2
	15	35	22.06		2
	27	0	21.87		2
	27	12	21.95		2
	27	23	22.00		2

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8.1.5

LTE Band 26

Table 8-5

LTE Band 26 Measured Pmax 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	24.35	24.35	24.40	0	0	
	1	25	24.56	24.41	24.38		0	
	1	49	24.53	24.44	24.46		0	
		25	0	23.52	23.58	23.53	0-1	1
		25	12	23.56	23.60	23.50		1
		25	25	23.61	23.59	23.51		1
		50	0	23.60	23.58	23.53	0-1	1
		15	0	23.45	23.41	23.40		1
		15	17	23.57	23.46	23.43		1
		15	35	23.49	23.40	23.41	0-2	1
		27	0	23.67	23.62	23.48		1
		27	12	23.62	23.59	23.59		1
	27	23	23.58	23.54	23.52		1	
16QAM	1	0	23.49	23.50	23.47	0-2	1	
	1	25	23.47	23.43	23.44		1	
	1	49	23.51	23.42	23.41		1	
		25	0	22.59	22.54	22.49	0-3	2
		25	12	22.58	22.55	22.52		2
		25	25	22.46	22.41	22.39		2
		15	0	22.53	22.50	22.51	0-5	2
		15	17	22.52	22.47	22.46		2
		15	35	22.61	22.51	22.49		2
		27	0	22.53	22.54	22.50	0-5	2
		27	12	22.46	22.51	22.50		2
		27	23	22.49	22.48	22.41		2

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8.1.6

LTE Band 5

Table 8-6

LTE Band 5 Measured Pmax 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	24.32	0	0
	1	25	24.31		0
	1	49	24.33		0
	25	0	23.36	0-1	1
	25	12	23.37		1
	25	25	23.38		1
	50	0	23.37		1
	15	0	23.39	0-1	1
	15	17	23.36		1
	15	35	23.39		1
	27	0	23.34	0-2	1
	27	12	23.33		1
	27	23	23.30		1
16QAM	1	0	23.02	0-2	1
	1	25	23.06		1
	1	49	23.15		1
	25	0	22.08	0-3	2
	25	12	22.13		2
	25	25	22.14		2
	15	0	22.18	0-5	2
	15	17	22.11		2
	15	35	22.06		2
	27	0	22.12		2
	27	12	22.09		2
	27	23	22.12		2

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8.1.7

LTE Band 66

Table 8-7

LTE Band 66 Measured Pmax 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	24.34	24.20	24.15	0	0
	1	50	24.39	24.14	24.06		0
	1	99	24.32	24.03	23.99		0
	50	0	23.40	23.32	23.17	0-1	1
	50	25	23.30	23.16	23.15		1
	50	50	23.24	23.08	23.01		1
	100	0	23.29	23.21	23.11	0-1	1
	15	0	24.23	24.18	24.07		0
	15	42	24.29	24.11	24.06		0
	15	85	24.27	24.09	23.96	0-2	0
	27	0	23.36	23.29	23.12		1
	27	37	23.35	23.28	23.10		1
27	73	23.33	23.22	22.98	1		
16QAM	1	0	23.04	22.92	23.20	0-2	1
	1	50	22.99	23.34	23.07		1
	1	99	23.33	23.09	22.98		1
	15	0	23.37	23.08	23.31	0-3	1
	15	42	23.18	23.01	23.14		1
	15	85	22.99	23.10	23.18		1
	27	0	21.92	22.06	22.00	0-5	2
	27	37	22.36	21.91	22.03		2
27	73	21.99	22.28	21.92			

8.1.8

LTE Band 25

Table 8-8

LTE Band 25 Measured Pmax 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	24.09	24.22	24.33	0	0
	1	50	24.19	24.35	24.41		0
	1	99	24.13	24.33	24.40		0
	50	0	23.12	23.32	23.40	0-1	1
	50	25	23.16	23.35	23.32		1
	50	50	23.14	23.21	23.26		1
	100	0	23.23	23.24	23.27	0-1	1
	15	0	24.08	24.14	24.30		0
	15	42	24.12	24.25	24.29		0
	15	85	24.05	24.20	24.30	0	
	27	0	23.22	23.27	23.08	0-2	1
	27	37	23.15	23.21	23.37		1
	27	73	23.08	23.06	23.30		1
	16QAM	1	0	23.21	23.39	23.36	0-2
1		50	23.05	23.11	23.11	1	
1		99	23.15	23.21	23.21	1	
15		0	23.27	23.35	23.06	0-3	1
15		42	23.23	23.30	23.24		1
15		85	23.37	23.31	23.19		1
27		0	22.06	22.08	22.17	0-5	2
27		37	22.18	22.23	22.25		2
27		73	22.07	22.23	22.35		2

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8.1.9

LTE Band 7

Table 8-9
LTE Band 7 Measured Pmax 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	24.06	24.07	24.02	0	0
	1	50	24.08	24.04	24.04		0
	1	99	24.13	24.04	24.05		0
	50	0	23.25	23.33	23.28	0-1	1
	50	25	23.35	23.23	23.35		1
	50	50	23.36	23.17	23.16		1
	100	0	23.32	23.34	23.29	0-1	1
	15	0	23.88	23.86	24.03		0
	15	42	24.02	23.81	23.77		0
	15	85	23.78	23.95	23.74	0-2	0
	27	0	23.05	22.74	23.00		1
	27	37	22.98	22.96	22.71		1
27	73	22.85	22.76	22.75	1		
16QAM	1	0	22.89	22.81	22.81	0-2	1
	1	50	22.71	22.81	22.93		1
	1	99	22.88	22.93	23.05		1
	15	0	22.99	22.65	22.79	0-3	1
	15	42	23.02	23.09	22.92		1
	15	85	23.07	23.07	22.69		1
	27	0	21.99	22.05	21.86	0-5	2
	27	37	22.04	22.05	21.88		2
27	73	21.98	21.71	21.91			

Table 8-10
LTE Band 7 Measured Plim 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	23.45	23.69	23.62	0	0
	1	50	23.66	23.77	23.86		0
	1	99	23.61	23.75	23.19		0
	50	0	22.84	23.20	23.26	0-1	0
	50	25	23.45	23.31	23.46		0
	50	50	23.10	23.04	23.09		0
	100	0	22.76	22.89	23.35	0-1	0
	15	0	23.39	23.63	23.76		0
	15	42	23.35	23.78	23.28		0
	15	85	23.27	23.64	23.27	0-2	0
	27	0	23.46	23.62	23.38		0
	27	37	23.66	23.79	23.27		0
16QAM	27	73	23.57	23.38	23.47	0-2	0
	1	0	23.55	23.52	23.73		0
	1	50	23.56	23.79	23.34		0
	1	99	23.53	23.33	23.25	0-3	0
	15	0	23.57	23.42	23.50		0
	15	42	23.57	23.35	23.68		0
	15	85	23.63	23.45	23.64	0-5	0
	27	0	22.90	22.84	22.89		0.8
	27	37	22.74	22.81	22.88		0.8
	27	73	22.67	22.89	22.91		0.8

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8.1.10

LTE Band 41

Table 8-11

LTE Band 41 Measured Pmax 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	23.83	23.88	23.98	23.95	23.92	0	0
	1	50	24.07	24.11	24.24	24.18	24.13		0
	1	99	23.86	23.91	23.99	23.93	23.91		0
	50	0	23.01	23.05	23.15	23.12	23.09	0-1	1
	50	25	23.07	23.10	23.17	23.15	23.13		1
	50	50	23.03	23.02	23.13	23.11	23.05		1
	100	0	22.98	23.01	23.11	23.07	23.04	0-1	1
	15	0	23.95	23.74	23.98	23.74	24.00		0
	15	42	24.14	23.71	23.69	24.12	23.75		0
	15	85	24.19	24.16	23.71	24.20	24.09	0	
	27	0	23.21	22.86	22.86	22.89	22.92	0-2	1
	27	37	22.96	23.22	23.12	23.21	22.85		1
	27	73	23.16	23.13	22.81	23.12	23.01		1
	16QAM	1	0	22.93	23.16	22.96	23.00	23.19	0-2
1		50	22.82	23.21	23.05	22.78	23.22	1	
1		99	23.09	22.80	22.89	22.87	22.97	1	
15		0	23.01	23.02	23.00	22.80	22.69	0-3	1
15		42	22.82	23.19	23.14	22.83	22.84		1
15		85	22.86	22.87	22.73	22.89	22.93		1
27		0	22.00	21.94	21.91	21.92	21.78	0-5	2
27		37	22.09	22.22	22.17	22.09	21.92		2
27		73	21.84	21.96	21.75	22.10	21.72		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 Pmax 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	24.39	0	0.0
	1	53	24.32		0.0
	1	104	24.32		0.0
	50	0	23.40	0-1	1.0
	50	28	24.40	0	0.0
	50	56	23.39	0-1	1.0
	100	0	23.41		1.0
DFT-s-OFDM 16QAM	1	1	23.21	0-1	1.0
CP-OFDM QPSK	1	1	22.97	0-1.5	1.5

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8.2.2

NR Band n12

Table 8-13

NR Band n12 Measured Pmax 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	24.80	0	0.0
	1	40	24.72		0.0
	1	77	24.70		0.0
	36	0	23.72	0-1	1.0
	36	22	24.77	0	0.0
	36	43	23.74	0-1	1.0
	75	0	23.76		1.0
DFT-s-OFDM 16QAM	1	1	23.41	0-1	1.0
CP-OFDM QPSK	1	1	23.22	0-1.5	1.5

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8.2.3

NR Band n14

Table 8-14

NR Band n14 Measured Pmax 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	24.26	0	0.0
	1	26	24.15		0.0
	1	50	24.23		0.0
	25	0	23.31	0-1	1.0
	25	14	24.27	0	0.0
	25	27	23.25	0-1	1.0
	50	0	23.22		1.0
DFT-s-OFDM 16QAM	1	1	23.15	0-1	1.0
CP-OFDM QPSK	1	1	22.92	0-1.5	1.5

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8.2.4

NR Band n26

Table 8-15

NR Band n26 Measured Pmax 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	24.61	0	0.0
	1	53	24.67		0.0
	1	104	24.57		0.0
	50	0	23.71	0-1	1.0
	50	28	24.70	0	0.0
	50	56	23.69	0-1	1.0
	100	0	23.70		1.0
DFT-s-OFDM 16QAM	1	1	23.53	0-1	1.0
CP-OFDM QPSK	1	1	23.31	0-1.5	1.5

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8.2.5

NR Band n5

Table 8-16

NR Band n5 Measured Pmax 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	24.70	0	0.0
	1	53	24.62		0.0
	1	104	24.63		0.0
	50	0	23.68	0-1	1.0
	50	28	24.63	0	0.0
	50	56	23.65	0-1	1.0
	100	0	23.67		1.0
DFT-s-OFDM 16QAM	1	1	23.41	0-1	1.0
CP-OFDM QPSK	1	1	23.14	0-1.5	1.5

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8.2.6

NR Band n66

Table 8-17

NR Band n66 Measured Pmax 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	24.46	24.43	24.35	0	0.0
	1	53	24.30	24.30	24.22		0.0
	1	104	24.37	24.26	24.19		0.0
	50	0	23.41	23.39	23.30	0-1	1.0
	50	28	24.43	24.39	24.26	0	0.0
	50	56	23.39	23.36	23.21	0-1	1.0
	100	0	23.37	23.35	23.25		1.0
DFT-s-OFDM 16QAM	1	1	23.18	23.16	23.09	0-1	1.0
CP-OFDM QPSK	1	1	22.79	22.76	22.69	0-1.5	1.5

8.2.7

NR Band n25

Table 8-18

NR Band n25 Measured Pmax 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	24.18	24.21	24.25	0	0.0
	1	53	24.13	24.12	24.15		0.0
	1	104	24.09	24.09	24.12		0.0
	50	0	23.19	23.13	23.22	0-1	1.0
	50	28	24.17	24.19	24.20	0	0.0
	50	56	23.13	23.11	23.19	0-1	1.0
	100	0	23.17	23.16	23.20		1.0
DFT-s-OFDM 16QAM	1	1	22.90	22.97	23.09	0-1	1.0
CP-OFDM QPSK	1	1	22.68	22.76	22.79	0-1.5	1.5

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8.2.8

NR Band n7

Table 8-19
NR Band n7 Measured Pmax 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	23.96	23.92	23.97	0	0.0
	1	53	23.87	24.05	23.96		0.0
	1	104	23.99	23.94	23.91		0.0
	50	0	22.91	22.74	22.97	0-1	1.0
	50	28	23.92	23.97	23.96	0	0.0
	50	56	22.87	23.03	22.85	0-1	1.0
	100	0	22.85	22.94	22.89		1.0
DFT-s-OFDM 16QAM	1	1	22.75	22.74	22.65	0-1	1.0
CP-OFDM QPSK	1	1	22.59	22.62	22.54	0-1.5	1.5

Table 8-20
NR Band n7 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	23.30	23.23	23.19	0	0.0
	1	53	23.47	23.43	23.40		0.0
	1	104	23.03	23.14	23.24		0.0
	50	0	22.94	22.97	23.00	0-1	0.1
	50	28	23.26	23.23	23.25	0	0.0
	50	56	22.90	22.99	22.81	0-1	0.1
	100	0	23.06	23.02	22.92		0.1
DFT-s-OFDM 16QAM	1	1	22.70	22.71	22.67	0-1	0.1
CP-OFDM QPSK	1	1	22.58	22.51	22.43	0-1.5	0.6

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8.2.9

NR Band n41

Table 8-21
NR Band n41 Measured Pmax,nom 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	24.32	24.29	24.27	24.24	24.17	0	0.0
	1	26	24.36	24.30	24.37	24.25	24.22		0.0
	1	49	24.34	24.24	24.25	24.22	24.24		0.0
	25	0	23.35	23.30	23.26	23.25	23.18	0-1	1.0
	25	13	24.33	24.29	24.34	24.22	24.26	0	0.0
	25	26	23.30	23.24	23.26	23.27	23.21	0-1	1.0
	50	0	23.29	23.25	23.23	23.24	23.22		1.0
DFT-s-OFDM 16QAM	1	1	23.16	23.28	23.29	23.25	23.22	0-1	1.0
CP-OFDM QPSK	1	1	22.98	22.89	22.99	22.92	22.78	0-1.5	1.5

Table 8-22
NR Band n41 Measured Plim,nom 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	23.38	23.24	23.33	23.52	0	0.0
	1	26	23.60	23.51	23.62	23.52	23.61		0.0
	1	49	23.54	23.38	23.23	23.26	23.24		0.0
	25	0	23.14	23.29	23.49	23.23	23.36	0-1	0.1
	25	13	23.59	23.57	23.61	23.54	23.45	0	0.0
	25	26	23.49	23.22	23.13	23.42	23.38	0-1	0.1
	50	0	22.97	23.01	23.02	22.93	22.91		0.1
DFT-s-OFDM 16QAM	1	1	23.14	23.28	23.26	23.22	23.19	0-1	0.1
CP-OFDM QPSK	1	1	22.64	22.83	22.84	22.81	22.68	0-1.5	0.6

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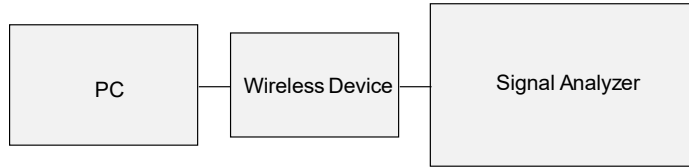


Figure 8-2
Power Measurement Setup

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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 ANT1)				2.4GHz WIFI (20MHz 802.11g SISO ANT1)				2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.99	2412	1	Average	17.59	2412	1	Average	17.61
2437	6		17.88	2437	6		17.48	2437	6		17.50
2462	11		17.90	2462	11		17.50	2462	11		17.56

Table 8-24
5 GHz WLAN Maximum Average RF Power

5GHz WIFI (20MHz 802.11a SISO ANT1)				5GHz WIFI (20MHz 802.11n SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	15.98	UNII-1	5180	36	15.93
	5200	40	15.78		5200	40	15.74
	5220	44	15.75		5220	44	15.72
	5240	48	15.65		5240	48	15.64
UNII-2A	5260	52	15.67	UNII-2A	5260	52	15.62
	5280	56	15.63		5280	56	15.59
	5300	60	15.65		5300	60	15.61
	5320	64	15.70		5320	64	15.66
UNII-2C	5500	100	15.95	UNII-2C	5500	100	15.97
	5600	120	15.90		5600	120	15.92
	5620	124	16.05		5620	124	16.06
	5720	144	16.12		5720	144	16.13
UNII-3	5745	149	15.97	UNII-3	5745	149	15.94
	5785	157	15.83		5785	157	15.82
	5825	165	15.99		5825	165	15.96

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.

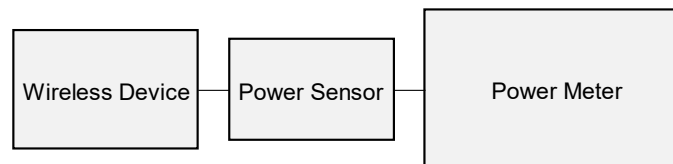


Figure 8-3
Power Measurement Setup

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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	16.27	42.364
2441	GFSK	1.0	39	16.18	41.495
2480	GFSK	1.0	78	16.32	42.855

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	12.11	16.255
2441	GFSK	1.0	39	12.07	16.106
2480	GFSK	1.0	78	12.09	16.181

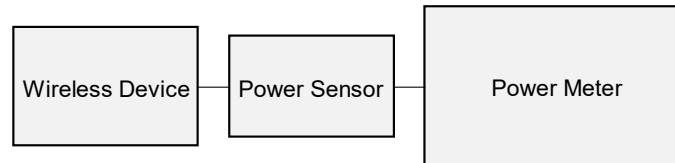


Figure 8-4
Power Measurement Setup

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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	15.92	39.084
5786.25	O-QPSK	1.0	Mid	15.99	39.719
5846.25	O-QPSK	1.0	High	15.95	39.355

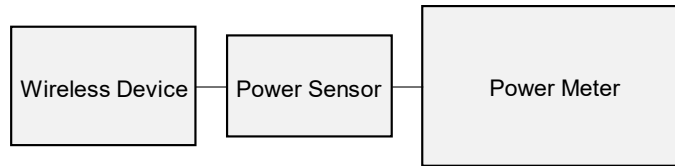
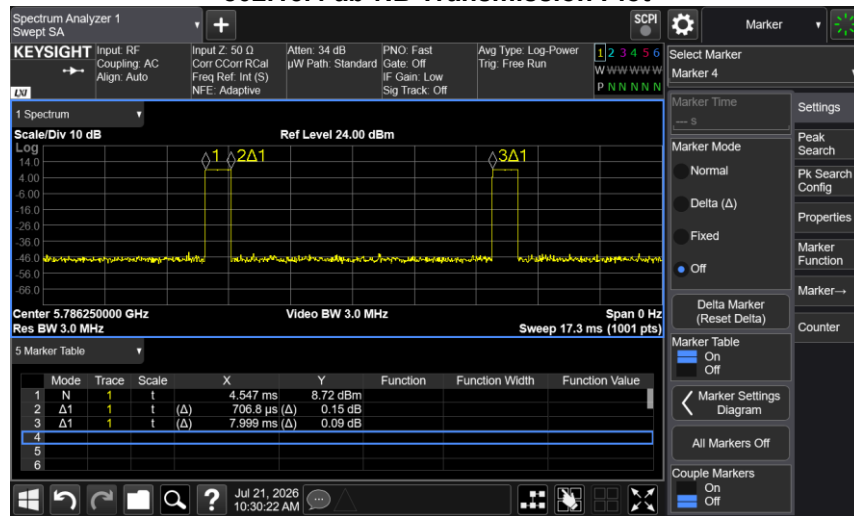


Figure 8-5
Power Measurement Setup

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

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{0.7068 \text{ ms}}{7.999 \text{ ms}} * 100\% = 8.84\%$$

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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%
7/2/2026	750 Head	22.5	680	0.844	43.941	0.888	42.305	-4.96%	3.87%
			695	0.849	43.877	0.889	42.227	-4.50%	3.91%
			700	0.851	43.858	0.889	42.201	-4.27%	3.93%
			710	0.854	43.823	0.890	42.149	-4.05%	3.97%
			725	0.859	43.791	0.891	42.071	-3.59%	4.09%
			750	0.866	43.764	0.894	41.942	-3.13%	4.34%
			770	0.873	43.724	0.895	41.838	-2.46%	4.51%
			785	0.879	43.675	0.896	41.760	-1.90%	4.59%
			800	0.886	43.614	0.897	41.682	-1.25%	4.64%
7/6/2026	750 Head	25.0	680	0.862	41.758	0.888	42.305	-2.93%	-1.29%
			695	0.867	41.716	0.889	42.227	-2.48%	-1.21%
			700	0.869	41.702	0.889	42.201	-2.25%	-1.18%
			710	0.872	41.670	0.890	42.149	-2.02%	-1.14%
			725	0.877	41.615	0.891	42.071	-1.57%	-1.08%
			750	0.885	41.535	0.894	41.942	-1.01%	-0.97%
			770	0.891	41.472	0.895	41.838	-0.45%	-0.88%
			785	0.896	41.420	0.896	41.760	0.00%	-0.81%
			800	0.901	41.374	0.897	41.682	-0.45%	-0.74%
7/8/2026	750 Head	24.5	680	0.846	40.510	0.888	42.305	-4.73%	-4.24%
			695	0.851	40.474	0.889	42.227	-4.27%	-4.15%
			700	0.852	40.463	0.889	42.201	-4.16%	-4.12%
			710	0.856	40.441	0.890	42.149	-3.82%	-4.05%
			725	0.860	40.400	0.891	42.071	-3.48%	-3.97%
			750	0.867	40.330	0.894	41.942	-3.02%	-3.84%
			770	0.873	40.272	0.895	41.838	-2.46%	-3.74%
			785	0.878	40.231	0.896	41.760	-2.01%	-3.66%
			800	0.883	40.197	0.897	41.682	-1.56%	-3.56%
7/8/2026	750 Head	24.0	680	0.896	40.404	0.888	42.305	0.90%	-4.49%
			695	0.903	40.539	0.889	42.227	1.57%	-4.00%
			700	0.906	40.587	0.889	42.201	1.91%	-3.82%
			710	0.909	40.663	0.890	42.149	2.13%	-3.53%
			725	0.913	40.679	0.891	42.071	2.47%	-3.31%
			750	0.914	40.420	0.894	41.942	2.24%	-3.63%
			770	0.918	40.112	0.895	41.838	2.57%	-4.13%
			785	0.924	39.962	0.896	41.760	3.13%	-4.31%
			800	0.934	39.939	0.897	41.682	4.12%	-4.18%
7/10/2026	750 Head	24.9	680	0.850	40.209	0.888	42.305	-4.28%	-4.95%
			695	0.855	40.146	0.889	42.227	-3.82%	-4.93%
			700	0.857	40.126	0.889	42.201	-3.60%	-4.92%
			710	0.860	40.093	0.890	42.149	-3.37%	-4.88%
			725	0.865	40.051	0.891	42.071	-2.92%	-4.80%
			750	0.873	39.983	0.894	41.942	-2.35%	-4.67%
			770	0.878	39.937	0.895	41.838	-1.90%	-4.54%
			785	0.882	39.905	0.896	41.760	-1.56%	-4.44%
			800	0.887	39.869	0.897	41.682	-1.11%	-4.35%

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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
7/12/2026	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%
7/13/2026	750 Head	23.6	800	0.903	40.422	0.897	41.682	0.67%	-3.02%
			680	0.857	40.340	0.888	42.305	-3.49%	-4.64%
			695	0.862	40.302	0.889	42.227	-3.04%	-4.56%
			700	0.863	40.288	0.889	42.201	-2.92%	-4.53%
			710	0.867	40.261	0.890	42.149	-2.58%	-4.48%
			725	0.872	40.213	0.891	42.071	-2.13%	-4.42%
			750	0.879	40.138	0.894	41.942	-1.68%	-4.30%
			770	0.885	40.068	0.895	41.838	-1.12%	-4.23%
7/21/2026	750 Head	24.6	785	0.890	40.028	0.896	41.760	-0.67%	-4.15%
			800	0.894	39.992	0.897	41.682	-0.33%	-4.05%
			680	0.846	40.475	0.888	42.305	-4.73%	-4.33%
			695	0.850	40.431	0.889	42.227	-4.39%	-4.25%
			700	0.852	40.419	0.889	42.201	-4.16%	-4.22%
			710	0.856	40.393	0.890	42.149	-3.82%	-4.17%
			725	0.862	40.358	0.891	42.071	-3.25%	-4.07%
			750	0.870	40.292	0.894	41.942	-2.68%	-3.93%
7/24/2026	750 Head	24.9	770	0.875	40.236	0.895	41.838	-2.23%	-3.83%
			785	0.879	40.188	0.896	41.760	-1.90%	-3.76%
			800	0.884	40.140	0.897	41.682	-1.45%	-3.70%
			680	0.865	40.942	0.888	42.305	-2.59%	-3.22%
			695	0.869	40.904	0.889	42.227	-2.25%	-3.13%
			700	0.871	40.891	0.889	42.201	-2.02%	-3.10%
			710	0.874	40.863	0.890	42.149	-1.80%	-3.05%
			725	0.879	40.825	0.891	42.071	-1.35%	-2.96%
6/30/2026	835 Head	24.9	750	0.886	40.752	0.894	41.942	-0.89%	-2.84%
			770	0.891	40.705	0.895	41.838	-0.45%	-2.71%
			785	0.895	40.674	0.896	41.760	-0.11%	-2.60%
			800	0.900	40.644	0.897	41.682	0.33%	-2.49%
6/30/2026	835 Head	20.8	815	0.872	39.796	0.898	41.594	-2.90%	-4.32%
			820	0.874	39.792	0.899	41.578	-2.78%	-4.30%
			835	0.879	39.783	0.900	41.500	-2.33%	-4.14%
			850	0.883	39.770	0.916	41.500	-3.60%	-4.17%
7/6/2026	835 Head	24.9	815	0.873	40.396	0.898	41.594	-2.78%	-2.88%
			820	0.877	40.335	0.899	41.578	-2.45%	-2.99%
			835	0.890	40.140	0.900	41.500	-1.11%	-3.28%
			850	0.903	39.945	0.916	41.500	-1.42%	-3.75%
7/8/2026	835 Head	21.0	815	0.868	43.009	0.898	41.594	-3.34%	3.40%
			820	0.869	43.007	0.899	41.578	-3.34%	3.44%
			835	0.872	42.993	0.900	41.500	-3.11%	3.60%
			850	0.875	42.953	0.916	41.500	-4.48%	3.50%
7/16/2026	835 Head	24.9	815	0.888	43.047	0.898	41.594	-1.11%	3.49%
			820	0.893	42.982	0.899	41.578	-0.67%	3.38%
			835	0.907	42.783	0.900	41.500	0.78%	3.09%
			850	0.921	42.589	0.916	41.500	0.55%	2.62%
7/16/2026	835 Head	24.9	815	0.870	40.192	0.898	41.594	-3.12%	-3.37%
			820	0.872	40.185	0.899	41.578	-3.00%	-3.35%
			835	0.877	40.169	0.900	41.500	-2.56%	-3.21%
			850	0.882	40.142	0.916	41.500	-3.71%	-3.27%

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6/26/2026	1750 Head	22.6	1700	1.288	39.188	1.343	40.145	-4.10%	-2.38%
			1705	1.290	39.184	1.345	40.141	-4.09%	-2.38%
			1710	1.292	39.177	1.348	40.136	-4.15%	-2.39%
			1720	1.297	39.162	1.354	40.126	-4.21%	-2.40%
			1745	1.311	39.100	1.368	40.087	-4.17%	-2.46%
			1750	1.315	39.088	1.371	40.079	-4.08%	-2.47%
			1770	1.327	39.050	1.383	40.047	-4.05%	-2.49%
7/6/2026	1750 Head	21.0	1790	1.339	39.032	1.394	40.016	-3.95%	-2.46%
			1700	1.292	39.930	1.343	40.145	-3.80%	-0.54%
			1705	1.295	39.925	1.345	40.141	-3.72%	-0.54%
			1710	1.297	39.919	1.348	40.136	-3.78%	-0.54%
			1720	1.302	39.901	1.354	40.126	-3.84%	-0.56%
			1745	1.317	39.837	1.368	40.087	-3.73%	-0.62%
			1750	1.320	39.822	1.371	40.079	-3.72%	-0.64%
7/24/2026	1750 Head	21.0	1770	1.333	39.783	1.383	40.047	-3.62%	-0.66%
			1790	1.344	39.761	1.394	40.016	-3.59%	-0.64%
			1700	1.342	39.910	1.343	40.145	-0.07%	-0.59%
			1705	1.346	39.887	1.345	40.141	0.07%	-0.63%
			1710	1.351	39.864	1.348	40.136	0.22%	-0.68%
			1720	1.361	39.818	1.354	40.126	0.52%	-0.77%
			1745	1.386	39.688	1.368	40.087	1.32%	-1.00%
6/19/2026	1900 Head	23.5	1750	1.391	39.663	1.371	40.079	1.46%	-1.04%
			1770	1.413	39.570	1.383	40.047	2.17%	-1.19%
			1790	1.433	39.488	1.394	40.016	2.80%	-1.32%
			1850	1.359	39.285	1.400	40.000	-2.93%	-1.79%
			1860	1.370	39.230	1.400	40.000	-2.14%	-1.93%
			1880	1.390	39.132	1.400	40.000	-0.71%	-2.17%
			1900	1.411	39.051	1.400	40.000	0.79%	-2.37%
6/22/2026	1900 Head	21.4	1905	1.416	39.031	1.400	40.000	1.14%	-2.42%
			1910	1.422	39.011	1.400	40.000	1.57%	-2.47%
			1920	1.432	38.971	1.400	40.000	2.29%	-2.57%
			1850	1.389	39.276	1.400	40.000	-0.79%	-1.81%
			1860	1.398	39.228	1.400	40.000	-0.14%	-1.93%
			1880	1.418	39.148	1.400	40.000	1.29%	-2.13%
			1900	1.439	39.079	1.400	40.000	2.79%	-2.30%
6/24/2026	1900 Head	21.5	1905	1.445	39.062	1.400	40.000	3.21%	-2.35%
			1910	1.450	39.047	1.400	40.000	3.57%	-2.38%
			1920	1.460	39.013	1.400	40.000	4.29%	-2.47%
			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%

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6/14/2026	2450 Head	24.0	2300	1.691	38.959	1.670	39.500	1.26%	-1.37%
			2310	1.703	38.922	1.679	39.480	1.43%	-1.41%
			2320	1.715	38.883	1.687	39.460	1.66%	-1.46%
			2400	1.801	38.559	1.756	39.289	2.56%	-1.86%
			2450	1.859	38.381	1.800	39.200	3.28%	-2.09%
			2480	1.891	38.266	1.833	39.162	3.16%	-2.29%
			2500	1.913	38.180	1.855	39.136	3.13%	-2.44%
			2510	1.925	38.139	1.866	39.123	3.16%	-2.52%
			2535	1.954	38.039	1.893	39.092	3.22%	-2.69%
			2550	1.973	37.987	1.909	39.073	3.35%	-2.78%
			2560	1.985	37.956	1.920	39.060	3.39%	-2.83%
			2600	2.030	37.798	1.964	39.009	3.36%	-3.10%
			2650	2.089	37.590	2.018	38.945	3.52%	-3.48%
			2680	2.124	37.481	2.051	38.907	3.56%	-3.67%
			2700	2.147	37.398	2.073	38.882	3.57%	-3.82%
6/17/2026	2450 Head	19.0	2300	1.644	38.395	1.670	39.500	-1.56%	-2.80%
			2310	1.652	38.371	1.679	39.480	-1.61%	-2.81%
			2320	1.660	38.345	1.687	39.460	-1.60%	-2.83%
			2400	1.728	38.159	1.756	39.289	-1.59%	-2.88%
			2450	1.769	38.027	1.800	39.200	-1.72%	-2.99%
			2480	1.793	37.946	1.833	39.162	-2.18%	-3.11%
			2500	1.809	37.892	1.855	39.136	-2.48%	-3.18%
			2510	1.818	37.864	1.866	39.123	-2.57%	-3.22%
			2535	1.841	37.804	1.893	39.092	-2.75%	-3.29%
			2550	1.855	37.767	1.909	39.073	-2.83%	-3.34%
			2560	1.863	37.742	1.920	39.060	-2.97%	-3.37%
			2600	1.898	37.627	1.964	39.009	-3.36%	-3.54%
			2650	1.945	37.502	2.018	38.945	-3.62%	-3.71%
			2680	1.970	37.419	2.051	38.907	-3.95%	-3.82%
			2700	1.987	37.370	2.073	38.882	-4.15%	-3.89%
6/24/2026	2450 Head	20.6	2300	1.692	40.304	1.670	39.500	1.32%	2.04%
			2310	1.700	40.297	1.679	39.480	1.25%	2.07%
			2320	1.707	40.289	1.687	39.460	1.19%	2.10%
			2400	1.767	40.171	1.756	39.289	0.63%	2.25%
			2450	1.806	40.114	1.800	39.200	0.33%	2.33%
			2480	1.828	40.048	1.833	39.162	-0.27%	2.26%
			2500	1.845	40.003	1.855	39.136	-0.54%	2.22%
			2510	1.853	39.985	1.866	39.123	-0.70%	2.20%
			2535	1.874	39.947	1.893	39.092	-1.00%	2.19%
			2550	1.885	39.925	1.909	39.073	-1.26%	2.18%
			2560	1.892	39.910	1.920	39.060	-1.46%	2.18%
			2600	1.922	39.823	1.964	39.009	-2.14%	2.09%
			2650	1.964	39.752	2.018	38.945	-2.68%	2.07%
			2680	1.984	39.702	2.051	38.907	-3.27%	2.04%
			2700	2.001	39.660	2.073	38.882	-3.47%	2.00%

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6/25/2026	2450 Head	20.0	2300	1.662	39.087	1.670	39.500	-0.48%	-1.05%
			2310	1.670	39.070	1.679	39.480	-0.54%	-1.04%
			2320	1.678	39.059	1.687	39.460	-0.53%	-1.02%
			2400	1.736	38.950	1.756	39.289	-1.14%	-0.86%
			2450	1.778	38.896	1.800	39.200	-1.22%	-0.78%
			2480	1.798	38.853	1.833	39.162	-1.91%	-0.79%
			2500	1.812	38.807	1.855	39.136	-2.32%	-0.84%
			2510	1.820	38.785	1.866	39.123	-2.47%	-0.86%
			2535	1.842	38.736	1.893	39.092	-2.69%	-0.91%
			2550	1.856	38.722	1.909	39.073	-2.78%	-0.90%
			2560	1.863	38.718	1.920	39.060	-2.97%	-0.88%
			2600	1.893	38.664	1.964	39.009	-3.62%	-0.88%
			2650	1.936	38.553	2.018	38.945	-4.06%	-1.01%
			2680	1.961	38.518	2.051	38.907	-4.39%	-1.00%
			2700	1.977	38.480	2.073	38.882	-4.63%	-1.03%
6/28/2026	2450 Head	24.4	2300	1.717	38.652	1.670	39.500	2.81%	-2.15%
			2310	1.728	38.624	1.679	39.480	2.92%	-2.17%
			2320	1.738	38.593	1.687	39.460	3.02%	-2.20%
			2400	1.830	38.224	1.756	39.289	4.21%	-2.71%
			2450	1.881	38.057	1.800	39.200	4.50%	-2.92%
			2480	1.916	37.871	1.833	39.162	4.53%	-3.30%
			2500	1.942	37.787	1.855	39.136	4.69%	-3.45%
			2510	1.955	37.762	1.866	39.123	4.77%	-3.48%
			2535	1.984	37.706	1.893	39.092	4.81%	-3.55%
			2550	1.998	37.648	1.909	39.073	4.66%	-3.65%
			2560	2.007	37.593	1.920	39.060	4.53%	-3.76%
			2600	2.054	37.367	1.964	39.009	4.58%	-4.21%
			2650	2.116	37.248	2.018	38.945	4.86%	-4.36%
			2680	2.143	37.088	2.051	38.907	4.49%	-4.68%
			2700	2.167	36.976	2.073	38.882	4.53%	-4.90%
6/29/2026	2450 Head	19.0	2300	1.657	37.699	1.670	39.500	-0.78%	-4.56%
			2310	1.665	37.684	1.679	39.480	-0.83%	-4.55%
			2320	1.673	37.665	1.687	39.460	-0.83%	-4.55%
			2400	1.732	37.525	1.756	39.289	-1.37%	-4.49%
			2450	1.770	37.426	1.800	39.200	-1.67%	-4.53%
			2480	1.791	37.365	1.833	39.162	-2.29%	-4.59%
			2500	1.806	37.321	1.855	39.136	-2.64%	-4.64%
			2510	1.814	37.304	1.866	39.123	-2.79%	-4.65%
			2535	1.836	37.273	1.893	39.092	-3.01%	-4.65%
			2550	1.847	37.247	1.909	39.073	-3.25%	-4.67%
			2560	1.855	37.229	1.920	39.060	-3.39%	-4.69%
			2600	1.888	37.159	1.964	39.009	-3.87%	-4.74%
			2650	1.930	37.073	2.018	38.945	-4.36%	-4.81%
			2680	1.955	37.018	2.051	38.907	-4.68%	-4.86%
			2700	1.972	36.982	2.073	38.882	-4.87%	-4.89%

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7/1/2026	2450 Head	19.0	2300	1.653	38.084	1.670	39.500	-1.02%	-3.59%
			2310	1.661	38.071	1.679	39.480	-1.07%	-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%	-3.40%
			2500	1.810	37.794	1.855	39.136	-2.43%	-3.43%
			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	1.857	37.703	1.909	39.073	-2.72%	-3.51%
			2560	1.865	37.696	1.920	39.060	-2.87%	-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%
7/1/2026	2450 Head	19.6	2700	1.987	37.426	2.073	38.882	-4.15%	-3.75%
			2300	1.685	39.175	1.670	39.500	0.90%	-0.82%
			2310	1.694	39.166	1.679	39.480	0.89%	-0.80%
			2320	1.702	39.160	1.687	39.460	0.89%	-0.76%
			2400	1.755	39.005	1.756	39.289	-0.06%	-0.72%
			2450	1.794	38.955	1.800	39.200	-0.33%	-0.63%
			2480	1.813	38.904	1.833	39.162	-1.09%	-0.66%
			2500	1.828	38.857	1.855	39.136	-1.46%	-0.71%
			2510	1.837	38.835	1.866	39.123	-1.55%	-0.74%
			2535	1.859	38.795	1.893	39.092	-1.80%	-0.76%
			2550	1.872	38.783	1.909	39.073	-1.94%	-0.74%
			2560	1.880	38.776	1.920	39.060	-2.08%	-0.73%
			2600	1.913	38.706	1.964	39.009	-2.60%	-0.78%
			2650	1.956	38.608	2.018	38.945	-3.07%	-0.87%
			2680	1.980	38.567	2.051	38.907	-3.46%	-0.87%
			2700	1.998	38.525	2.073	38.882	-3.62%	-0.92%

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6/14/2026	5200-5800 Head	19.0	5150	4.385	36.200	4.608	36.050	-4.84%	0.42%
			5160	4.398	36.186	4.618	36.040	-4.76%	0.41%
			5170	4.408	36.164	4.629	36.030	-4.77%	0.37%
			5180	4.420	36.134	4.635	36.009	-4.64%	0.35%
			5190	4.434	36.110	4.645	35.998	-4.54%	0.31%
			5200	4.446	36.090	4.655	35.986	-4.49%	0.29%
			5210	4.457	36.076	4.666	35.975	-4.48%	0.28%
			5220	4.466	36.060	4.676	35.963	-4.49%	0.27%
			5240	4.488	36.023	4.696	35.940	-4.43%	0.23%
			5250	4.499	36.013	4.706	35.929	-4.40%	0.23%
			5260	4.509	36.005	4.717	35.917	-4.41%	0.25%
			5270	4.520	35.988	4.727	35.906	-4.38%	0.23%
			5280	4.529	35.962	4.737	35.894	-4.39%	0.19%
			5290	4.540	35.929	4.748	35.883	-4.38%	0.13%
			5300	4.553	35.906	4.758	35.871	-4.31%	0.10%
			5310	4.566	35.889	4.768	35.860	-4.24%	0.08%
			5320	4.578	35.875	4.778	35.849	-4.19%	0.07%
			5500	4.772	35.571	4.963	35.643	-3.85%	-0.20%
			5510	4.782	35.559	4.973	35.632	-3.84%	-0.20%
			5520	4.793	35.531	4.983	35.620	-3.81%	-0.25%
			5530	4.804	35.498	4.994	35.609	-3.80%	-0.31%
			5540	4.814	35.473	5.004	35.597	-3.80%	-0.35%
			5550	4.824	35.464	5.014	35.586	-3.79%	-0.34%
			5560	4.836	35.455	5.024	35.574	-3.74%	-0.33%
			5580	4.867	35.420	5.045	35.551	-3.53%	-0.37%
			5600	4.889	35.374	5.065	35.529	-3.47%	-0.44%
			5610	4.899	35.365	5.076	35.518	-3.49%	-0.43%
			5620	4.910	35.348	5.086	35.506	-3.46%	-0.44%
			5640	4.934	35.289	5.106	35.483	-3.37%	-0.55%
			5660	4.953	35.265	5.127	35.460	-3.39%	-0.55%
			5670	4.965	35.263	5.137	35.449	-3.35%	-0.52%
			5680	4.979	35.248	5.147	35.437	-3.26%	-0.53%
			5690	4.992	35.233	5.158	35.426	-3.22%	-0.54%
			5700	5.007	35.211	5.168	35.414	-3.12%	-0.57%
			5710	5.022	35.191	5.178	35.403	-3.01%	-0.60%
			5720	5.033	35.169	5.188	35.391	-2.99%	-0.63%
			5745	5.050	35.120	5.214	35.363	-3.15%	-0.69%
			5750	5.055	35.113	5.219	35.357	-3.14%	-0.69%
			5755	5.062	35.108	5.224	35.351	-3.10%	-0.69%
			5765	5.074	35.100	5.234	35.340	-3.06%	-0.68%
			5775	5.085	35.085	5.245	35.329	-3.05%	-0.69%
			5785	5.098	35.057	5.255	35.317	-2.99%	-0.74%
			5795	5.112	35.035	5.265	35.305	-2.91%	-0.76%
			5800	5.120	35.026	5.270	35.300	-2.85%	-0.78%
			5805	5.128	35.023	5.275	35.294	-2.79%	-0.77%
			5825	5.149	34.994	5.296	35.271	-2.78%	-0.79%
			5835	5.158	34.966	5.305	35.230	-2.77%	-0.75%
			5845	5.168	34.947	5.315	35.210	-2.77%	-0.75%
			5850	5.173	34.941	5.320	35.200	-2.76%	-0.74%
			5855	5.180	34.934	5.325	35.197	-2.72%	-0.75%
			5865	5.192	34.918	5.336	35.190	-2.70%	-0.77%
			5875	5.204	34.898	5.347	35.183	-2.67%	-0.81%
			5885	5.215	34.879	5.357	35.177	-2.65%	-0.85%
			5905	5.239	34.867	5.379	35.163	-2.60%	-0.84%

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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%

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

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%
AM11	750	HEAD	07/02/2026	24.2	21.0	0.20	1094	7427	1402	1.740	8.680	8.700	0.23%	1.150	5.610	5.750	2.50%
AM14	750	HEAD	07/06/2026	21.1	23.0	0.20	1094	7782	1646	1.750	8.680	8.750	0.81%	1.180	5.610	5.900	5.17%
AM14	750	HEAD	07/08/2026	21.9	23.5	0.20	1094	7782	1646	1.600	8.680	8.000	-7.83%	1.060	5.610	5.300	-5.53%
AM6	750	HEAD	07/08/2026	20.6	23.0	0.20	1097	7308	501	1.730	8.270	8.650	4.59%	1.150	5.380	5.750	6.88%
AM6	750	HEAD	07/10/2026	22.7	23.0	0.20	1097	7308	501	1.690	8.270	8.450	2.18%	1.130	5.380	5.650	5.02%
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%
AM11	750	HEAD	07/13/2026	20.8	22.5	0.20	1094	7427	1402	1.620	8.680	8.100	-6.68%	1.070	5.610	5.350	-4.63%
AM6	750	HEAD	07/21/2026	21.7	23.0	0.20	1097	7308	501	1.560	8.270	7.800	-5.68%	1.050	5.380	5.250	-2.42%
AM6	750	HEAD	07/24/2026	23.0	23.0	0.20	1097	7308	501	1.650	8.270	8.250	-0.24%	1.120	5.380	5.600	4.09%
AM10	835	HEAD	06/30/2026	23.2	23.7	0.20	4d040	7421	604	1.870	9.590	9.350	-2.50%	1.250	6.250	6.250	0.00%
AM12	835	HEAD	06/30/2026	22.8	21.0	0.20	4d108	7639	1684	1.960	9.400	9.800	4.26%	1.280	6.050	6.400	5.79%
AM10	835	HEAD	07/06/2026	21.1	23.1	0.20	4d040	7421	604	1.910	9.590	9.550	-0.42%	1.280	6.250	6.400	2.40%
AM12	835	HEAD	07/08/2026	20.0	20.0	0.20	4d108	7639	1684	1.880	9.400	9.400	0.00%	1.240	6.050	6.200	2.48%
AM10	835	HEAD	07/16/2026	24.7	24.9	0.20	4d040	7421	604	1.960	9.590	9.800	2.19%	1.310	6.250	6.550	4.80%
AM15	1750	HEAD	06/26/2026	24.1	23.0	0.10	1040	3746	1237	3.580	36.300	35.800	-1.38%	1.910	19.300	19.100	-1.04%
AM15	1750	HEAD	07/06/2026	21.9	21.2	0.10	1040	3746	1237	3.560	36.300	35.600	-1.93%	1.900	19.300	19.000	-1.55%
AM13	1750	HEAD	07/24/2026	22.8	21.0	0.10	1083	7499	1465	3.630	36.500	36.300	-0.55%	1.930	19.400	19.300	-0.52%
AM13	1900	HEAD	06/19/2026	22.1	22.2	0.10	5d181	7499	1465	4.050	39.900	40.500	1.50%	2.110	21.100	21.100	0.00%
AM13	1900	HEAD	06/22/2026	20.7	20.0	0.10	5d181	7499	1465	4.160	39.900	41.600	4.26%	2.130	21.100	21.300	0.95%
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%
AM16	2450	HEAD	06/14/2026	23.3	22.5	0.10	855	7551	1323	5.090	53.300	50.900	-4.50%	2.320	25.000	23.200	-7.20%
AM11	2450	HEAD	06/17/2026	21.0	20.0	0.10	855	7427	1402	5.430	53.300	54.300	1.88%	2.600	25.000	26.000	4.00%
AM14	2450	HEAD	06/24/2026	22.3	21.2	0.10	855	7782	1646	5.030	53.300	50.300	-5.63%	2.360	25.000	23.600	-5.60%
AM7	2450	HEAD	06/25/2026	22.1	20.1	0.10	921	3837	793	5.480	52.200	54.800	4.98%	2.580	24.300	25.800	6.17%
AM16	2450	HEAD	06/28/2026	22.5	22.9	0.10	855	7551	1323	5.530	53.300	55.300	3.75%	2.490	25.000	24.900	-0.40%
AM11	2450	HEAD	06/29/2026	20.4	20.6	0.10	855	7427	1402	5.420	53.300	54.200	1.69%	2.540	25.000	25.400	1.60%
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	2450	HEAD	07/01/2026	21.0	19.7	0.10	921	3837	793	5.160	52.200	51.600	-1.15%	2.440	24.300	24.400	0.41%
AM11	2600	HEAD	06/17/2026	21.0	20.0	0.10	1068	7427	1402	5.590	56.100	55.900	-0.36%	2.590	25.200	25.900	2.78%
AM14	2600	HEAD	06/24/2026	22.3	21.2	0.10	1068	7782	1646	5.190	56.100	51.900	-7.49%	2.360	25.200	23.600	-6.35%
AM7	2600	HEAD	06/25/2026	22.1	20.1	0.10	1069	3837	793	5.670	56.200	56.700	0.89%	2.580	25.500	25.800	1.18%
AM16	2600	HEAD	06/28/2026	22.5	22.9	0.10	1068	7551	1323	5.720	56.100	57.200	1.96%	2.490	25.200	24.900	-1.19%
AM11	2600	HEAD	06/29/2026	20.4	20.6	0.10	1068	7427	1402	5.520	56.100	55.200	-1.60%	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%
AM7	2600	HEAD	07/01/2026	21.0	19.7	0.10	1069	3837	793	5.370	56.200	53.700	-4.45%	2.480	25.500	24.800	-2.75%
AM9	5250	HEAD	06/14/2026	19.0	19.0	0.05	1123	7668	1681	3.730	80.200	74.600	-6.98%	1.100	22.900	22.000	-3.93%
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	5600	HEAD	06/14/2026	19.0	19.0	0.05	1123	7668	1681	3.860	82.100	77.200	-5.97%	1.130	23.500	22.600	-3.83%
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	5750	HEAD	06/14/2026	19.0	19.0	0.05	1123	7668	1681	3.690	78.500	73.800	-5.99%	1.090	22.300	21.800	-2.24%
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	5850	HEAD	06/14/2026	19.0	19.0	0.05	1123	7668	1681	3.820	82.300	76.400	-7.17%	1.110	23.400	22.200	-5.13%
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%

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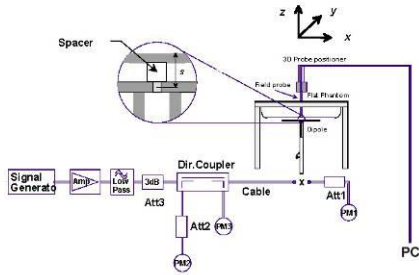


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 LTE Band 71 Standalone Head SAR

Table 10-1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 71	20	QPSK	Aluminum	Sport	RAWCM	1:1	-0.11	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.003	1.340	0.004	0.003	A1	49.2	
Head	LTE Band 71	20	QPSK	Aluminum	Sport	RAWCM	1:1	-0.14	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.002	1.309	0.003	0.002		50.1	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.04	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.000	1.340	0.000	0.000		64.0	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.02	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.000	1.309	0.000	0.000		63.1	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	-0.16	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.001	1.340	0.001	0.001		54.0	
Head	LTE Band 71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	0.04	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.000	1.309	0.000	0.000		63.1	
Head	LTE Band 71	20	QPSK	Ceramic	Sport	65VD	1:1	0.07	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.000	1.340	0.000	0.000		64.0	
Head	LTE Band 71	20	QPSK	Ceramic	Sport	65VD	1:1	0.02	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.000	1.309	0.000	0.000		63.1	
Head	LTE Band 71	20	QPSK	Ceramic	Metal Loop	65VD	1:1	0.01	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.001	1.340	0.001	0.001		54.0	
Head	LTE Band 71	20	QPSK	Ceramic	Metal Loop	65VD	1:1	0.07	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.000	1.309	0.000	0.000		63.1	
Head	LTE Band 71	20	QPSK	Ceramic	Metal Links	65VD	1:1	0.08	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.001	1.340	0.001	0.001		54.0	
Head	LTE Band 71	20	QPSK	Ceramic	Metal Links	65VD	1:1	0.09	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.000	1.309	0.000	0.000		63.1	
Head	LTE Band 71	20	QPSK	Titanium	Sport	N31V4	1:1	0.06	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.002	1.340	0.003	0.002		51.0	
Head	LTE Band 71	20	QPSK	Titanium	Sport	N31V4	1:1	0.05	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.002	1.309	0.001	0.002		50.1	
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	N31V4	1:1	0.06	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.000	1.340	0.000	0.000		64.0	
Head	LTE Band 71	20	QPSK	Titanium	Metal Loop	N31V4	1:1	0.09	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.000	1.309	0.000	0.000		63.1	
Head	LTE Band 71	20	QPSK	Titanium	Metal Links	N31V4	1:1	0.08	680.50	133297	0.0	25.70	24.43	1	50	Front	10	0.002	1.340	0.003	0.002		51.0	
Head	LTE Band 71	20	QPSK	Titanium	Metal Links	N31V4	1:1	0.01	680.50	133297	1.0	24.70	23.53	50	0	Front	10	0.002	1.309	0.003	0.002		50.1	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

10.2 LTE Band 71 Standalone Extremity SAR

Table 10-2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 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 71	20	QPSK	Aluminum	Sport	RAWCM	1:1	-0.16	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.063	1.340	0.064	0.021		39.9	
Extremity	LTE Band 71	20	QPSK	Aluminum	Sport	RAWCM	1:1	-0.04	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.036	1.309	0.047	0.012		41.5	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.01	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.128	1.340	0.172	0.043		36.9	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.00	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.090	1.309	0.118	0.030		37.5	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	-0.05	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.106	1.340	0.145	0.036		37.6	
Extremity	LTE Band 71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	-0.11	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.067	1.309	0.089	0.022		38.8	
Extremity	LTE Band 71	20	QPSK	Ceramic	Sport	196V1	1:1	-0.17	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.131	1.340	0.176	0.044		36.8	
Extremity	LTE Band 71	20	QPSK	Ceramic	Sport	196V1	1:1	0.03	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.095	1.309	0.124	0.031		37.3	
Extremity	LTE Band 71	20	QPSK	Ceramic	Metal Loop	196V1	1:1	0.09	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.155	1.340	0.208	0.052		36.0	
Extremity	LTE Band 71	20	QPSK	Ceramic	Metal Loop	196V1	1:1	0.01	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.126	1.309	0.169	0.042		36.0	
Extremity	LTE Band 71	20	QPSK	Ceramic	Metal Links	196V1	1:1	-0.06	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.220	1.340	0.255	0.074	A2	34.5	
Extremity	LTE Band 71	20	QPSK	Ceramic	Metal Links	196V1	1:1	-0.19	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.161	1.309	0.211	0.053		35.0	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	N31V4	1:1	-0.20	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.060	1.340	0.080	0.020		40.2	
Extremity	LTE Band 71	20	QPSK	Titanium	Sport	N31V4	1:1	-0.19	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.031	1.309	0.043	0.011		41.9	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	N31V4	1:1	-0.08	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.109	1.340	0.146	0.037		37.6	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Loop	N31V4	1:1	-0.06	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.070	1.309	0.092	0.023		38.6	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Links	N31V4	1:1	-0.06	680.50	133297	0.0	25.70	24.43	1	50	Back	0	0.117	1.340	0.157	0.039		37.3	
Extremity	LTE Band 71	20	QPSK	Titanium	Metal Links	N31V4	1:1	-0.02	680.50	133297	1.0	24.70	23.53	50	0	Back	0	0.097	1.309	0.127	0.032		37.2	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

10.3 LTE Band 12 Standalone Head SAR

Table 10-3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	LTE Band 12	10	QPSK	Aluminum	Sport	94JHH	1:1	0.07	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.000	1.400	0.000	0.000		63.8		
Head	LTE Band 12	10	QPSK	Aluminum	Sport	94JHH	1:1	0.05	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.000	1.321	0.000	0.000		63.0		
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	94JHH	1:1	0.02	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.000	1.400	0.000	0.000		63.8		
Head	LTE Band 12	10	QPSK	Aluminum	Metal Loop	94JHH	1:1	0.08	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.000	1.321	0.000	0.000		63.0		
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	94JHH	1:1	-0.12	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.004	1.400	0.006	0.004		47.8		
Head	LTE Band 12	10	QPSK	Aluminum	Metal Links	94JHH	1:1	0.08	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.001	1.321	0.004	0.001		63.8		
Head	LTE Band 12	10	QPSK	Ceramic	Sport	06PJ4	1:1	0.06	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.000	1.400	0.000	0.000		63.8		
Head	LTE Band 12	10	QPSK	Ceramic	Sport	06PJ4	1:1	0.01	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.000	1.321	0.000	0.000		63.0		
Head	LTE Band 12	10	QPSK	Ceramic	Metal Loop	06PJ4	1:1	0.06	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.000	1.400	0.000	0.000		63.8		
Head	LTE Band 12	10	QPSK	Ceramic	Metal Loop	06PJ4	1:1	0.09	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.001	1.321	0.000	0.000		63.0		
Head	LTE Band 12	10	QPSK	Ceramic	Metal Links	06PJ4	1:1	0.09	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.000	1.400	0.000	0.000		63.8		
Head	LTE Band 12	10	QPSK	Ceramic	Metal Links	06PJ4	1:1	0.08	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.000	1.321	0.000	0.000		63.0		
Head	LTE Band 12	10	QPSK	Titanium	Sport	23LR2	1:1	0.07	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.002	1.400	0.003	0.002		50.8		
Head	LTE Band 12	10	QPSK	Titanium	Sport	23LR2	1:1	0.05	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.001	1.321	0.002	0.001		53.0		
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	23LR2	1:1	0.02	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.000	1.400	0.000	0.000		63.8		
Head	LTE Band 12	10	QPSK	Titanium	Metal Loop	23LR2	1:1	0.05	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.000	1.321	0.000	0.000		63.0		
Head	LTE Band 12	10	QPSK	Titanium	Metal Links	23LR2	1:1	0.06	707.50	23095	0.0	25.70	24.24	1	49	Front	10	0.005	1.400	0.008	0.005	A3	37.8		
Head	LTE Band 12	10	QPSK	Titanium	Metal Links	23LR2	1:1	0.02	707.50	23095	1.0	24.70	23.49	25	0	Front	10	0.001	1.321	0.004	0.001		48.3		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																			Head						
Uncontrolled Exposure/General Population																			Spatial Peak		1.6 W/kg (mW/g)				
																			averaged over 1 gram						

10.4 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 (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	LVXXM	1:1	-0.02	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.067	1.400	0.094	0.024		39.5	
Extremity	LTE Band 12	10	QPSK	Aluminum	Sport	LVXXM	1:1	-0.01	707.50	23095	1.0	24.70	23.49	25	0	Back	0	0.048	1.321	0.061	0.016		40.2	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	LVXXM	1:1	0.08	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.106	1.400	0.148	0.037		37.5	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Loop	LVXXM	1:1	0.04	707.50	23095	1.0	24.70	23.49	25	0	Back	0	0.083	1.321	0.110	0.028		37.8	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	LVXXM	1:1	0.00	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.182	1.400	0.255	0.064		35.1	
Extremity	LTE Band 12	10	QPSK	Aluminum	Metal Links	LVXXM	1:1	-0.07	707.50	23095	1.0	24.70	23.49	25	0	Back	0	0.091	1.321	0.123	0.031		37.3	
Extremity	LTE Band 12	10	QPSK	Ceramic	Sport	6H9WK	1:1	0.11	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.170	1.400	0.238	0.060		35.4	
Extremity	LTE Band 12	10	QPSK	Ceramic	Sport	6H9WK	1:1	-0.01	707.50	23095	1.0	24.70	23.49	25	0	Back	0	0.134	1.321	0.177	0.044		35.7	
Extremity	LTE Band 12	10	QPSK	Ceramic	Metal Loop	6H9WK	1:1	0.01	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.232	1.400	0.325	0.081		34.1	
Extremity	LTE Band 12	10	QPSK	Ceramic	Metal Loop	6H9WK	1:1	0.02	707.50	23095	1.0	24.70	23.49	25	0	Back	0	0.181	1.321	0.239	0.060		34.4	
Extremity	LTE Band 12	10	QPSK	Ceramic	Metal Links	6H9WK	1:1	0.02	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.287	1.400	0.402	0.101	A4	33.2	
Extremity	LTE Band 12	10	QPSK	Ceramic	Metal Links	6H9WK	1:1	-0.05	707.50	23095	1.0	24.70	23.49	25	0	Back	0	0.224	1.321	0.296	0.074		33.5	
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	YKG6G	1:1	-0.16	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.061	1.400	0.085	0.021		39.9	
Extremity	LTE Band 12	10	QPSK	Titanium	Sport	YKG6G	1:1	-0.07	707.50	23095	1.0	24.70	23.49	25	0	Back	0	0.047	1.321	0.062	0.016		40.3	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	YKG6G	1:1	-0.02	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.105	1.400	0.147	0.037		37.5	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Loop	YKG6G	1:1	0.09	707.50	23095	0.0	24.70	23.49	25	0	Back	0	0.066	1.321	0.090	0.023		38.7	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Links	YKG6G	1:1	0.00	707.50	23095	0.0	25.70	24.24	1	49	Back	0	0.090	1.400	0.126	0.032		38.2	
Extremity	LTE Band 12	10	QPSK	Titanium	Metal Links	YKG6G	1:1	0.01	707.50	23095	1.0	24.70	23.49	25	0	Back	0	0.070	1.321	0.092	0.023		38.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity		4.0 W/kg (mW/g)		averaged over 10 grams				
Spatial Peak Uncontrolled Exposure/General Population																								

10.5 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	LVXXM	1:1	0.08	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.000	1.409	0.000	0.000		63.8	
Head	LTE Band 13	10	QPSK	Aluminum	Sport	LVXXM	1:1	0.07	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.000	1.387	0.000	0.000		62.8	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	LVXXM	1:1	0.08	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.000	1.409	0.000	0.000		63.8	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Loop	LVXXM	1:1	0.07	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.000	1.387	0.000	0.000		62.8	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	LVXXM	1:1	0.07	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.002	1.409	0.003	0.002		50.7	
Head	LTE Band 13	10	QPSK	Aluminum	Metal Links	LVXXM	1:1	0.04	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.001	1.387	0.001	0.001		52.8	
Head	LTE Band 13	10	QPSK	Ceramic	Sport	SN2QL	1:1	0.06	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.000	1.409	0.000	0.000		63.8	
Head	LTE Band 13	10	QPSK	Ceramic	Sport	SN2QL	1:1	0.08	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.000	1.387	0.000	0.000		62.8	
Head	LTE Band 13	10	QPSK	Ceramic	Metal Loop	SN2QL	1:1	0.02	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.000	1.409	0.000	0.000		63.8	
Head	LTE Band 13	10	QPSK	Ceramic	Metal Loop	SN2QL	1:1	0.03	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.000	1.387	0.000	0.000		62.8	
Head	LTE Band 13	10	QPSK	Ceramic	Metal Links	SN2QL	1:1	0.04	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.002	1.409	0.003	0.002	A5	50.7	
Head	LTE Band 13	10	QPSK	Ceramic	Metal Links	SN2QL	1:1	-0.09	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.001	1.387	0.001	0.001		52.8	
Head	LTE Band 13	10	QPSK	Titanium	Sport	LG353	1:1	0.05	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.002	1.409	0.003	0.002		50.7	
Head	LTE Band 13	10	QPSK	Titanium	Sport	LG353	1:1	0.02	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.001	1.387	0.001	0.001		52.8	
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	LG353	1:1	0.09	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.002	1.409	0.003	0.002		50.7	
Head	LTE Band 13	10	QPSK	Titanium	Metal Loop	LG353	1:1	0.03	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.000	1.387	0.000	0.000		62.8	
Head	LTE Band 13	10	QPSK	Titanium	Metal Links	LG353	1:1	0.01	782.00	23230	0.0	25.70	24.21	1	0	Front	10	0.002	1.409	0.003	0.002		50.7	
Head	LTE Band 13	10	QPSK	Titanium	Metal Links	LG353	1:1	0.09	782.00	23230	1.0	24.70	23.28	25	25	Front	10	0.001	1.387	0.001	0.001		52.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak Uncontrolled Exposure/General Population																								

10.6 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	941HH	1:1	-0.03	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.090	1.409	0.127	0.032		38.2	
Extremity	LTE Band 13	10	QPSK	Aluminum	Sport	941HH	1:1	-0.02	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.073	1.387	0.101	0.025		38.2	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	941HH	1:1	0.02	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.118	1.409	0.166	0.042		37.0	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Loop	941HH	1:1	0.07	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.089	1.387	0.123	0.031		37.3	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	941HH	1:1	0.00	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.182	1.409	0.256	0.064		35.1	
Extremity	LTE Band 13	10	QPSK	Aluminum	Metal Links	941HH	1:1	0.00	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.141	1.387	0.196	0.049		35.3	
Extremity	LTE Band 13	10	QPSK	Ceramic	Sport	SN2QL	1:1	0.01	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.183	1.409	0.258	0.065		35.1	
Extremity	LTE Band 13	10	QPSK	Ceramic	Sport	SN2QL	1:1	0.05	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.159	1.387	0.221	0.055		34.8	
Extremity	LTE Band 13	10	QPSK	Ceramic	Metal Loop	SN2QL	1:1	0.00	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.223	1.409	0.314	0.079		34.2	
Extremity	LTE Band 13	10	QPSK	Ceramic	Metal Loop	SN2QL	1:1	-0.01	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.171	1.387	0.237	0.059		34.5	
Extremity	LTE Band 13	10	QPSK	Ceramic	Metal Links	SN2QL	1:1	0.00	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.282	1.409	0.397	0.099	A6	33.2	
Extremity	LTE Band 13	10	QPSK	Ceramic	Metal Links	SN2QL	1:1	-0.03	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.243	1.387	0.337	0.084		32.9	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	D44MM	1:1	-0.03	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.073	1.409	0.103	0.026		39.1	
Extremity	LTE Band 13	10	QPSK	Titanium	Sport	D44MM	1:1	0.01	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.060	1.387	0.081	0.021		39.0	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	D44MM	1:1	0.06	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.119	1.409	0.168	0.042		37.0	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Loop	D44MM	1:1	0.03	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.081	1.387	0.115	0.029		37.6	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Links	D44MM	1:1	-0.03	782.00	23230	0.0	25.70	24.21	1	0	Back	0	0.183	1.409	0.256	0.064		35.1	
Extremity	LTE Band 13	10	QPSK	Titanium	Metal Links	D44MM	1:1	-0.04	782.00	23230	1.0	24.70	23.28	25	25	Back	0	0.108	1.387	0.150	0.038		36.5	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																		Extremity						
Uncontrolled Exposure/General Population																		4.0 W/kg (mW/g)						
																		averaged over 10 grams						

10.7 LTE Band 14 Standalone Head SAR

Table 10-7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (SAR)	Pilot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	LTE Band 14	10	QPSK	Aluminum	Sport	R4WCM	1:1	0.09	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.002	1.390	0.003	0.002		50.8		
Head	LTE Band 14	10	QPSK	Aluminum	Sport	R4WCM	1:1	0.03	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.002	1.374	0.003	0.002		49.9		
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	R4WCM	1:1	0.07	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.002	1.390	0.003	0.002		50.8		
Head	LTE Band 14	10	QPSK	Aluminum	Metal Loop	R4WCM	1:1	0.04	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.002	1.374	0.003	0.002		49.9		
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	R4WCM	1:1	0.01	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.004	1.390	0.006	0.004	A7	47.8		
Head	LTE Band 14	10	QPSK	Aluminum	Metal Links	R4WCM	1:1	0.01	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.004	1.374	0.005	0.003		46.8		
Head	LTE Band 14	10	QPSK	Ceramic	Sport	196V1	1:1	0.03	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.001	1.390	0.001	0.001		51.8		
Head	LTE Band 14	10	QPSK	Ceramic	Sport	196V1	1:1	0.08	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.000	1.374	0.000	0.000		62.9		
Head	LTE Band 14	10	QPSK	Ceramic	Metal Loop	196V1	1:1	0.01	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.001	1.390	0.001	0.001		51.8		
Head	LTE Band 14	10	QPSK	Ceramic	Metal Loop	196V1	1:1	0.03	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.001	1.374	0.001	0.001		52.9		
Head	LTE Band 14	10	QPSK	Ceramic	Metal Links	196V1	1:1	0.01	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.001	1.390	0.004	0.003		49.0		
Head	LTE Band 14	10	QPSK	Ceramic	Metal Links	196V1	1:1	-0.02	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.002	1.374	0.003	0.002		49.9		
Head	LTE Band 14	10	QPSK	Titanium	Sport	N31V4	1:1	0.03	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.003	1.390	0.004	0.003		49.0		
Head	LTE Band 14	10	QPSK	Titanium	Sport	N31V4	1:1	0.01	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.001	1.374	0.001	0.001		52.9		
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	N31V4	1:1	0.06	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.001	1.390	0.004	0.003		49.0		
Head	LTE Band 14	10	QPSK	Titanium	Metal Loop	N31V4	1:1	0.04	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.002	1.374	0.003	0.002		49.9		
Head	LTE Band 14	10	QPSK	Titanium	Metal Links	N31V4	1:1	0.01	793.00	23330	0.0	25.70	24.27	1	49	Front	10	0.003	1.390	0.004	0.003		49.0		
Head	LTE Band 14	10	QPSK	Titanium	Metal Links	N31V4	1:1	0.03	793.00	23330	1.0	24.70	23.32	25	0	Front	10	0.003	1.374	0.004	0.003		48.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Spatial Peak		Head					1.6 W/kg (mW/g)		Overall Plimit [dBm]
Uncontrolled Exposure/General Population																		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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Pilot #	Plimit [dBm]	Overall Plimit [dBm]	
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	LVXKM	1:1	-0.03	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.068	1.390	0.095	0.024		39.5		
Extremity	LTE Band 14	10	QPSK	Aluminum	Sport	LVXKM	1:1	0.00	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.057	1.374	0.078	0.020		39.3		
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	LVXKM	1:1	0.06	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.134	1.390	0.185	0.047		36.5		
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Loop	LVXKM	1:1	0.00	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.104	1.374	0.143	0.036		36.7		
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	LVXKM	1:1	0.04	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.195	1.390	0.271	0.068		34.9		
Extremity	LTE Band 14	10	QPSK	Aluminum	Metal Links	LVXKM	1:1	-0.01	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.150	1.374	0.206	0.052		35.1		
Extremity	LTE Band 14	10	QPSK	Ceramic	Sport	SN2QL	1:1	0.00	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.193	1.390	0.268	0.067		34.9		
Extremity	LTE Band 14	10	QPSK	Ceramic	Sport	SN2QL	1:1	-0.01	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.156	1.374	0.214	0.054		34.9		
Extremity	LTE Band 14	10	QPSK	Ceramic	Metal Loop	SN2QL	1:1	-0.04	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.251	1.390	0.349	0.087	A8	33.8		
Extremity	LTE Band 14	10	QPSK	Ceramic	Metal Loop	SN2QL	1:1	0.08	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.195	1.374	0.268	0.067		33.9		
Extremity	LTE Band 14	10	QPSK	Ceramic	Metal Links	SN2QL	1:1	-0.02	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.225	1.390	0.311	0.078		34.3		
Extremity	LTE Band 14	10	QPSK	Ceramic	Metal Links	SN2QL	1:1	0.00	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.182	1.374	0.250	0.063		34.2		
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	D44MM	1:1	-0.20	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.081	1.390	0.113	0.028		38.7		
Extremity	LTE Band 14	10	QPSK	Titanium	Sport	D44MM	1:1	0.02	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.064	1.374	0.088	0.022		38.8		
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	D44MM	1:1	0.00	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.119	1.390	0.165	0.041		37.0		
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Loop	D44MM	1:1	0.10	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.104	1.374	0.143	0.036		36.7		
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Links	D44MM	1:1	-0.05	793.00	23330	0.0	25.70	24.27	1	49	Back	0	0.152	1.390	0.211	0.052		36.0		
Extremity	LTE Band 14	10	QPSK	Titanium	Metal Links	D44MM	1:1	0.07	793.00	23330	1.0	24.70	23.32	25	0	Back	0	0.106	1.374	0.146	0.037		36.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Spatial Peak		Extremity					4.0 W/kg (mW/g) averaged over 10 grams		Overall Plimit [dBm]
Uncontrolled Exposure/General Population																		averaged over 10 grams							

10.9 LTE Band 26 (Cell) Standalone Head SAR

Table 10-9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (SAR)	Pilot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 26	10	QPSK	Aluminum	Sport	QL4TM	1:1	0.05	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.000	1.300	0.000	0.000		64.1	
Head	LTE Band 26	10	QPSK	Aluminum	Sport	QL4TM	1:1	0.02	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.000	1.285	0.000	0.000		63.2	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	QL4TM	1:1	0.02	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.000	1.300	0.000	0.000		64.1	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Loop	QL4TM	1:1	0.01	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.000	1.285	0.000	0.000		63.2	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	QL4TM	1:1	0.09	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.001	1.300	0.001	0.001		54.1	
Head	LTE Band 26	10	QPSK	Aluminum	Metal Links	QL4TM	1:1	0.07	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.001	1.285	0.001	0.001		53.2	
Head	LTE Band 26	10	QPSK	Ceramic	Sport	W45R2	1:1	0.01	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.000	1.300	0.000	0.000		64.1	
Head	LTE Band 26	10	QPSK	Ceramic	Sport	W45R2	1:1	0.09	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.000	1.285	0.000	0.000		63.2	
Head	LTE Band 26	10	QPSK	Ceramic	Metal Loop	W45R2	1:1	0.07	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.000	1.300	0.000	0.000		64.1	
Head	LTE Band 26	10	QPSK	Ceramic	Metal Loop	W45R2	1:1	0.08	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.000	1.285	0.000	0.000		63.2	
Head	LTE Band 26	10	QPSK	Ceramic	Metal Links	W45R2	1:1	0.05	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.000	1.300	0.000	0.000		64.1	
Head	LTE Band 26	10	QPSK	Ceramic	Metal Links	W45R2	1:1	0.07	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.000	1.285	0.000	0.000		63.2	
Head	LTE Band 26	10	QPSK	Titanium	Sport	W47TG	1:1	0.04	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.001	1.300	0.001	0.001		54.1	
Head	LTE Band 26	10	QPSK	Titanium	Sport	W47TG	1:1	0.04	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.000	1.285	0.000	0.000		63.2	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	W47TG	1:1	0.04	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.000	1.300	0.000	0.000		64.1	
Head	LTE Band 26	10	QPSK	Titanium	Metal Loop	W47TG	1:1	0.05	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.000	1.285	0.000	0.000		63.2	
Head	LTE Band 26	10	QPSK	Titanium	Metal Links	W47TG	1:1	0.06	819.00	26740	0.0	25.70	24.56	1	25	Front	10	0.001	1.300	0.001	0.001	A9	51.1	
Head	LTE Band 26	10	QPSK	Titanium	Metal Links	W47TG	1:1	0.01	819.00	26740	1.0	24.70	23.61	25	25	Front	10	0.000	1.285	0.000	0.000		53.2	
ANSI/IEEE CS3-11992 - SAFETY LIMIT																								
Spatial Peak																				Head				
Uncontrolled Exposure / General Population																				1.6 W/kg (mW/g)				
																				averaged over 1g				

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 #	Plimt [dBm]	Overall Plimt [dBm]
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	KQX04	1:1	-0.17	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.047	1.300	0.063	0.015		41.3	
Extremity	LTE Band 26	10	QPSK	Aluminum	Sport	KQX04	1:1	0.02	819.00	26740	1.0	24.70	23.61	25	25	Back	0	0.036	1.285	0.046	0.012		41.6	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	KQX04	1:1	-0.07	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.091	1.300	0.118	0.030		38.5	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Loop	KQX04	1:1	0.01	819.00	26740	1.0	24.70	23.61	25	25	Back	0	0.075	1.285	0.096	0.024		38.4	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	KQX04	1:1	0.01	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.214	1.300	0.278	0.070		34.8	
Extremity	LTE Band 26	10	QPSK	Aluminum	Metal Links	KQX04	1:1	-0.02	819.00	26740	1.0	24.70	23.61	25	25	Back	0	0.170	1.285	0.218	0.055		34.8	
Extremity	LTE Band 26	10	QPSK	Ceramic	Sport	4T4WN	1:1	0.09	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.165	1.300	0.215	0.054		35.9	
Extremity	LTE Band 26	10	QPSK	Ceramic	Sport	4T4WN	1:1	-0.05	819.00	26740	1.0	24.70	23.61	25	25	Back	0	0.145	1.285	0.186	0.047		35.5	
Extremity	LTE Band 26	10	QPSK	Ceramic	Metal Loop	4T4WN	1:1	0.08	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.161	1.300	0.209	0.052		36.0	
Extremity	LTE Band 26	10	QPSK	Ceramic	Metal Loop	4T4WN	1:1	-0.13	819.00	26740	1.0	24.70	23.61	25	25	Back	0	0.130	1.285	0.167	0.042		36.0	
Extremity	LTE Band 26	10	QPSK	Ceramic	Metal Links	4T4WN	1:1	-0.11	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.274	1.300	0.356	0.089	A10	33.7	
Extremity	LTE Band 26	10	QPSK	Ceramic	Metal Links	4T4WN	1:1	0.00	819.00	26740	1.0	24.70	23.61	25	25	Back	0	0.153	1.285	0.197	0.049		35.3	
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	YGK6G	1:1	-0.08	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.045	1.300	0.059	0.015		41.5	
Extremity	LTE Band 26	10	QPSK	Titanium	Sport	YGK6G	1:1	0.10	819.00	26740	1.0	24.70	23.61	25	25	Back	0	0.031	1.285	0.040	0.010		42.2	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	YGK6G	1:1	-0.10	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.072	1.300	0.094	0.024		39.5	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Loop	YGK6G	1:1	-0.08	819.00	26740	0.0	24.70	23.61	25	25	Back	0	0.052	1.285	0.067	0.017		40.0	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Links	YGK6G	1:1	0.05	819.00	26740	0.0	25.70	24.56	1	25	Back	0	0.076	1.300	0.099	0.025		39.3	
Extremity	LTE Band 26	10	QPSK	Titanium	Metal Links	YGK6G	1:1	-0.19	819.00	26740	1.0	24.70	23.61	25	25	Back	0	0.040	1.285	0.033	0.016		40.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Extremity		4.0 W/kg (mW/g)		averaged over 10 grams				
Spatial Peak																								
Uncontrolled Exposure/General Population																								

10.11 LTE Band 5 (Cell) Standalone Head SAR

Table 10-11

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	
Head	LTE Band 5	10	QPSK	Aluminum	Sport	KQX04	1:1	0.01	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.002	1.371	0.003	0.002		50.9		
Head	LTE Band 5	10	QPSK	Aluminum	Sport	KQX04	1:1	0.08	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.000	1.355	0.000	0.000		62.9		
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	KQX04	1:1	-0.06	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.000	1.371	0.000	0.000		63.9		
Head	LTE Band 5	10	QPSK	Aluminum	Metal Loop	KQX04	1:1	0.09	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.000	1.355	0.000	0.000		62.9		
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	KQX04	1:1	0.04	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.002	1.371	0.003	0.002		50.9		
Head	LTE Band 5	10	QPSK	Aluminum	Metal Links	KQX04	1:1	-0.03	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.002	1.355	0.003	0.002		49.9		
Head	LTE Band 5	10	QPSK	Ceramic	Sport	GPJ14	1:1	0.02	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.001	1.371	0.001	0.001		53.9		
Head	LTE Band 5	10	QPSK	Ceramic	Sport	GPJ14	1:1	0.03	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.000	1.355	0.000	0.000		62.9		
Head	LTE Band 5	10	QPSK	Ceramic	Metal Loop	GPJ14	1:1	0.05	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.000	1.371	0.000	0.000		63.9		
Head	LTE Band 5	10	QPSK	Ceramic	Metal Loop	GPJ14	1:1	0.04	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.000	1.355	0.000	0.000		62.9		
Head	LTE Band 5	10	QPSK	Ceramic	Metal Links	GPJ14	1:1	-0.20	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.001	1.371	0.001	0.001		53.9		
Head	LTE Band 5	10	QPSK	Ceramic	Metal Links	GPJ14	1:1	0.03	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.000	1.355	0.000	0.000		62.9		
Head	LTE Band 5	10	QPSK	Titanium	Sport	YGK6G	1:1	0.03	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.001	1.371	0.001	0.001		53.9		
Head	LTE Band 5	10	QPSK	Titanium	Sport	YGK6G	1:1	0.08	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.000	1.355	0.000	0.000		62.9		
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	YGK6G	1:1	0.04	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.002	1.371	0.003	0.002		50.9		
Head	LTE Band 5	10	QPSK	Titanium	Metal Loop	YGK6G	1:1	0.07	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.002	1.355	0.003	0.002		49.9		
Head	LTE Band 5	10	QPSK	Titanium	Metal Links	YGK6G	1:1	0.02	836.50	20525	0.0	25.70	24.33	1	49	Front	10	0.001	1.371	0.001	0.001	A11	53.1		
Head	LTE Band 5	10	QPSK	Titanium	Metal Links	YGK6G	1:1	0.04	836.50	20525	1.0	24.70	23.38	25	25	Front	10	0.002	1.355	0.003	0.002		49.9		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram			
Spatial Peak																									
Uncontrolled Exposure/General Population																									

10.12 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 (SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]			
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	V910P	1:1	0.08	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.055	1.371	0.075	0.019		40.4				
Extremity	LTE Band 5	10	QPSK	Aluminum	Sport	V910P	1:1	-0.06	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.041	1.355	0.056	0.014		40.8				
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	V910P	1:1	-0.02	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.160	1.371	0.219	0.055		35.8				
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Loop	V910P	1:1	0.02	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.128	1.355	0.173	0.043		35.8				
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	V910P	1:1	0.02	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.195	1.371	0.267	0.067		34.9				
Extremity	LTE Band 5	10	QPSK	Aluminum	Metal Links	V910P	1:1	0.13	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.120	1.355	0.163	0.041		36.1				
Extremity	LTE Band 5	10	QPSK	Ceramic	Sport	J6VQ2	1:1	0.02	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.160	1.371	0.219	0.055		35.8				
Extremity	LTE Band 5	10	QPSK	Ceramic	Sport	J6VQ2	1:1	-0.08	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.126	1.355	0.171	0.043		35.9				
Extremity	LTE Band 5	10	QPSK	Ceramic	Metal Loop	J6VQ2	1:1	-0.04	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.237	1.371	0.325	0.081		34.1				
Extremity	LTE Band 5	10	QPSK	Ceramic	Metal Loop	J6VQ2	1:1	0.01	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.215	1.355	0.291	0.073		33.6				
Extremity	LTE Band 5	10	QPSK	Ceramic	Metal Links	J6VQ2	1:1	-0.04	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.245	1.371	0.336	0.084	A12	33.9				
Extremity	LTE Band 5	10	QPSK	Ceramic	Metal Links	J6VQ2	1:1	0.01	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.192	1.355	0.260	0.065		34.1				
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	C2NWC	1:1	-0.16	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.092	1.371	0.080	0.020		40.2				
Extremity	LTE Band 5	10	QPSK	Titanium	Sport	C2NWC	1:1	0.03	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.066	1.355	0.062	0.016		40.3				
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	C2NWC	1:1	-0.20	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.092	1.371	0.126	0.032		38.2				
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Loop	C2NWC	1:1	0.03	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.080	1.355	0.106	0.026		37.8				
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Links	C2NWC	1:1	-0.10	836.50	20525	0.0	25.70	24.33	1	49	Back	0	0.162	1.371	0.222	0.056		35.7				
Extremity	LTE Band 5	10	QPSK	Titanium	Metal Links	C2NWC	1:1	-0.16	836.50	20525	1.0	24.70	23.38	25	25	Back	0	0.100	1.355	0.136	0.034		36.9				
ANSI/IEEE C95.1-1982 - Safety Limit																			Extremity					4.0 W/kg (mW/g)			
Uncontrolled Exposure/General Population																			Spatial Peak					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 (SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Head	LTE Band 66	20	QPSK	Aluminum	Sport	P9TLJ	1:1	-0.07	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.102	1.205	0.123	0.077		33.8	
Head	LTE Band 66	20	QPSK	Aluminum	Sport	P9TLJ	1:1	-0.02	1720.00	132072	1.0	24.20	23.40	50	0	Front	10	0.085	1.202	0.100	0.064		33.6	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	P9TLJ	1:1	-0.06	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.106	1.205	0.128	0.080		33.7	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Loop	P9TLJ	1:1	-0.08	1720.00	132072	1.0	24.20	23.40	50	0	Front	10	0.091	1.202	0.109	0.068		33.3	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	P9TLJ	1:1	0.00	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.096	1.205	0.116	0.073		34.1	
Head	LTE Band 66	20	QPSK	Aluminum	Metal Links	P9TLJ	1:1	0.08	1720.00	132072	1.0	24.20	23.40	50	0	Front	10	0.071	1.202	0.088	0.095		34.3	
Head	LTE Band 66	20	QPSK	Ceramic	Sport	79PY2	1:1	-0.02	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.110	1.205	0.131	0.083		33.5	
Head	LTE Band 66	20	QPSK	Ceramic	Sport	79PY2	1:1	0.15	1720.00	132072	1.0	24.20	23.40	50	0	Front	10	0.090	1.202	0.108	0.068		33.4	
Head	LTE Band 66	20	QPSK	Ceramic	Metal Loop	79PY2	1:1	-0.02	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.124	1.205	0.149	0.093		33.0	
Head	LTE Band 66	20	QPSK	Ceramic	Metal Loop	79PY2	1:1	0.04	1720.00	132072	1.0	24.20	23.40	50	0	Front	10	0.101	1.202	0.121	0.076		32.9	
Head	LTE Band 66	20	QPSK	Ceramic	Metal Links	79PY2	1:1	0.07	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.125	1.205	0.151	0.094	A13	33.0	
Head	LTE Band 66	20	QPSK	Ceramic	Metal Links	79PY2	1:1	-0.05	1720.00	132072	1.0	24.20	23.40	50	0	Front	10	0.091	1.202	0.109	0.068		33.3	
Head	LTE Band 66	20	QPSK	Titanium	Sport	X9K76	1:1	0.07	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.069	1.205	0.083	0.052		35.5	
Head	LTE Band 66	20	QPSK	Titanium	Sport	X9K76	1:1	-0.04	1720.00	132072	1.0	24.20	23.40	50	0	Front	10	0.060	1.202	0.072	0.045		35.2	
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	X9K76	1:1	-0.12	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.080	1.205	0.108	0.068		34.4	
Head	LTE Band 66	20	QPSK	Titanium	Metal Loop	X9K76	1:1	0.00	1720.00	132072	0.0	25.20	23.40	50	0	Front	10	0.072	1.202	0.087	0.054		34.4	
Head	LTE Band 66	20	QPSK	Titanium	Metal Links	X9K76	1:1	0.09	1720.00	132072	0.0	25.20	24.39	1	50	Front	10	0.093	1.205	0.112	0.070		34.2	
Head	LTE Band 66	20	QPSK	Titanium	Metal Links	X9K76	1:1	0.03	1720.00	132072	1.0	24.20	23.40	50	0	Front	10	0.055	1.202	0.066	0.041		35.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head							
Uncontrolled Exposure/General Population																	Spatial Peak							
																	1.6 W/kg (mW/g)							
																	averaged over 1 gram							

10.14 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 #	Plimt [dBm]	Overall Plimt [dBm]			
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	QL4TM	1:1	0.04	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.038	1.205	0.046	0.012		42.1				
Extremity	LTE Band 66	20	QPSK	Aluminum	Sport	QL4TM	1:1	0.04	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.029	1.202	0.035	0.009		42.3				
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	QL4TM	1:1	-0.20	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.077	1.205	0.091	0.023		39.9				
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Loop	QL4TM	1:1	0.20	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.063	1.202	0.076	0.019		38.9				
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	QL4TM	1:1	-0.18	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.043	1.205	0.052	0.013		41.6				
Extremity	LTE Band 66	20	QPSK	Aluminum	Metal Links	QL4TM	1:1	0.06	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.034	1.202	0.041	0.010		41.6				
Extremity	LTE Band 66	20	QPSK	Ceramic	Sport	79PY2	1:1	0.04	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.115	1.205	0.139	0.035		37.3				
Extremity	LTE Band 66	20	QPSK	Ceramic	Sport	79PY2	1:1	-0.21	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.090	1.202	0.108	0.027		37.4				
Extremity	LTE Band 66	20	QPSK	Ceramic	Metal Loop	79PY2	1:1	0.02	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.124	1.205	0.149	0.037	A14	37.0	37.0			
Extremity	LTE Band 66	20	QPSK	Ceramic	Metal Loop	79PY2	1:1	0.02	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.092	1.202	0.111	0.028		37.3				
Extremity	LTE Band 66	20	QPSK	Ceramic	Metal Links	79PY2	1:1	-0.11	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.115	1.205	0.139	0.035		37.3				
Extremity	LTE Band 66	20	QPSK	Ceramic	Metal Links	79PY2	1:1	-0.03	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.095	1.202	0.114	0.029		37.1				
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	RX2P9	1:1	0.02	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.057	1.205	0.069	0.017		40.3				
Extremity	LTE Band 66	20	QPSK	Titanium	Sport	RX2P9	1:1	-0.20	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.042	1.202	0.050	0.013		40.7				
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	RX2P9	1:1	0.19	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.066	1.205	0.080	0.020		39.7				
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Loop	RX2P9	1:1	0.04	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.045	1.202	0.054	0.014		40.4				
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Links	RX2P9	1:1	0.01	1720.00	132072	0.0	25.20	24.39	1	50	Back	0	0.053	1.205	0.064	0.016		40.7				
Extremity	LTE Band 66	20	QPSK	Titanium	Metal Links	RX2P9	1:1	0.06	1720.00	132072	1.0	24.20	23.40	50	0	Back	0	0.042	1.202	0.050	0.013		40.7				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Extremity 4.0 W/kg (mW/g) averaged over 10 grams										
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 (SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Head	LTE Band 25	20	QPSK	Aluminum	Sport	Y7NJ3	1:1	0.05	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.142	1.199	0.170	0.106		32.4	
Head	LTE Band 25	20	QPSK	Aluminum	Sport	Y7NJ3	1:1	0.07	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.114	1.202	0.137	0.086		32.4	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	Y7NJ3	1:1	0.01	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.202	1.199	0.242	0.151		30.9	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Loop	Y7NJ3	1:1	0.03	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.159	1.202	0.191	0.119		30.9	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	Y7NJ3	1:1	0.02	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.123	1.199	0.147	0.092		33.1	
Head	LTE Band 25	20	QPSK	Aluminum	Metal Links	Y7NJ3	1:1	-0.02	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.098	1.202	0.118	0.074		33.0	
Head	LTE Band 25	20	QPSK	Ceramic	Sport	Q6PJ4	1:1	0.03	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.221	1.199	0.265	0.166		30.5	
Head	LTE Band 25	20	QPSK	Ceramic	Sport	Q6PJ4	1:1	0.03	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.169	1.202	0.203	0.127		30.7	
Head	LTE Band 25	20	QPSK	Ceramic	Metal Loop	Q6PJ4	1:1	0.13	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.249	1.199	0.299	0.187	A15	30.0	
Head	LTE Band 25	20	QPSK	Ceramic	Metal Loop	Q6PJ4	1:1	-0.01	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.200	1.202	0.240	0.150		29.9	
Head	LTE Band 25	20	QPSK	Ceramic	Metal Links	Q6PJ4	1:1	0.05	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.156	1.199	0.187	0.117		32.0	
Head	LTE Band 25	20	QPSK	Ceramic	Metal Links	Q6PJ4	1:1	0.04	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.121	1.202	0.145	0.091		32.1	
Head	LTE Band 25	20	QPSK	Titanium	Sport	D44MM	1:1	-0.02	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.140	1.199	0.168	0.105		32.5	
Head	LTE Band 25	20	QPSK	Titanium	Sport	D44MM	1:1	-0.01	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.115	1.202	0.138	0.086		32.3	
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	D44MM	1:1	0.01	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.178	1.199	0.213	0.133		31.4	
Head	LTE Band 25	20	QPSK	Titanium	Metal Loop	D44MM	1:1	0.02	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.137	1.202	0.165	0.103		31.6	
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	D44MM	1:1	0.04	1905.00	26590	0.0	25.20	24.41	1	50	Front	10	0.169	1.199	0.201	0.129		31.7	
Head	LTE Band 25	20	QPSK	Titanium	Metal Links	D44MM	1:1	0.04	1905.00	26590	1.0	24.20	23.40	50	0	Front	10	0.134	1.202	0.161	0.101		31.7	
ANSI/IEEE C95.3-1992 - SAFETY LIMIT																		Head						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure / General Population																		averaged over 1 gram						

Table 10-16

10.17 LTE Band 7 Standalone Head SAR

Note: Blue entry represents variability measurement

Table 10-18

FCC ID: BCG-A3582	DUT Type: Watch	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1C2604100030-19.BCG-R1		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 62 of 85

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 #	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)	Plex #	PLimit [dBm]	Overall PLimit [dBm]
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.01	2506.00	37550	0.0	25.20	24.07	1	50	Front	10	0.592	1.297	0.768	0.480	23.9		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.02	2549.50	40185	0.0	25.20	24.11	1	50	Front	10	0.607	1.285	0.844	0.528	23.5		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.01	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.608	1.247	0.889	0.531	23.3		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.02	2636.50	41055	0.0	25.20	24.18	1	50	Front	10	0.693	1.265	0.877	0.548	23.1		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.01	2680.00	41490	0.0	25.20	24.13	1	50	Front	10	0.688	1.279	0.880	0.550	23.1		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.02	2506.00	37550	1.0	24.20	23.07	50	25	Front	10	0.457	1.297	0.581	0.311	24.6		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.02	2549.50	40185	1.0	24.20	23.10	50	25	Front	10	0.537	1.288	0.692	0.433	23.4		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.04	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.536	1.268	0.680	0.425	23.4		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.03	2636.50	41055	1.0	24.20	23.15	50	25	Front	10	0.532	1.274	0.652	0.408	23.6		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.02	2680.00	41490	1.0	24.20	23.13	50	25	Front	10	0.493	1.279	0.631	0.394	23.8		
Head	LTE Band 41	20	QPSK	Aluminum	Sport	KX004	1:1:58	-0.03	2593.00	42620	1.0	24.20	23.11	100	0	Front	10	0.513	1.285	0.695	0.412	23.6		
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	KX004	1:1:58	-0.01	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.631	1.247	0.413	0.209	26.6		
Head	LTE Band 41	20	QPSK	Aluminum	Metal Loop	KX004	1:1:58	-0.05	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.763	1.268	0.333	0.208	26.5		
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	KX004	1:1:58	-0.02	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.462	1.247	0.578	0.260	25.7		
Head	LTE Band 41	20	QPSK	Aluminum	Metal Links	KX004	1:1:58	-0.01	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.394	1.268	0.500	0.313	24.5		
Head	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1:58	-0.03	2506.00	37550	0.0	25.20	24.07	1	50	Front	10	0.555	1.297	0.720	0.420	24.2		
Head	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1:58	-0.02	2549.50	40185	0.0	25.20	24.11	1	50	Front	10	0.618	1.285	0.794	0.456	23.8		
Head	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1:58	-0.03	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.631	1.247	0.787	0.482	23.8		
Head	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1:58	-0.04	2636.50	41055	0.0	25.20	24.18	1	50	Front	10	0.631	1.265	0.798	0.499	23.7		
Head	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1:58	-0.05	2680.00	41490	0.0	25.20	24.13	1	50	Front	10	0.645	1.279	0.821	0.516	23.6		
Head	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1:58	-0.05	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.493	1.268	0.587	0.367	24.1		
Head	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1:58	-0.03	2593.00	42620	1.0	24.20	23.11	100	0	Front	10	0.472	1.285	0.607	0.379	23.9		
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	65VD	1:1:58	-0.01	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.457	1.247	0.570	0.266	25.7		
Head	LTE Band 41	20	QPSK	Ceramic	Metal Loop	65VD	1:1:58	-0.01	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.394	1.297	0.511	0.319	25.7		
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	65VD	1:1:58	-0.07	2549.50	40185	0.0	25.20	24.11	1	50	Front	10	0.370	1.285	0.475	0.287	26.0		
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	65VD	1:1:58	-0.01	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.538	1.247	0.671	0.419	24.5		
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	65VD	1:1:58	-0.03	2636.50	41055	0.0	25.20	24.18	1	50	Front	10	0.421	1.265	0.533	0.333	25.5		
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	65VD	1:1:58	-0.01	2680.00	41490	0.0	25.20	24.13	1	50	Front	10	0.521	1.279	0.707	0.442	24.8		
Head	LTE Band 41	20	QPSK	Ceramic	Metal Links	65VD	1:1:58	-0.05	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.433	1.268	0.549	0.243	24.4		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.03	2506.00	37550	0.0	25.20	24.07	1	50	Front	10	0.697	1.297	0.904	0.561	23.2		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.01	2549.50	40185	0.0	25.20	24.11	1	50	Front	10	0.708	1.285	0.920	0.641	23.6		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.02	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.826	1.247	1.020	0.644	A19	22.6	
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.02	2636.50	41055	0.0	25.20	24.18	1	50	Front	10	0.825	1.265	1.044	0.653	22.6		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.01	2680.00	41490	0.0	25.20	24.13	1	50	Front	10	0.761	1.279	0.975	0.608	22.8		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.01	2506.00	37550	1.0	24.20	23.07	50	25	Front	10	0.508	1.297	0.650	0.412	23.6		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.04	2549.50	40185	1.0	24.20	23.10	50	25	Front	10	0.596	1.288	0.768	0.480	22.8		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.05	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.669	1.268	0.848	0.510	22.8		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.03	2636.50	41055	1.0	24.20	23.15	50	25	Front	10	0.619	1.274	0.789	0.493	22.8		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.04	2680.00	41490	1.0	24.20	23.13	50	25	Front	10	0.604	1.279	0.773	0.483	22.8		
Head	LTE Band 41	20	QPSK	Titanium	Sport	MR97W	1:1:58	-0.04	2593.00	42620	1.0	24.20	23.11	100	0	Front	10	0.570	1.285	0.710	0.418	23.1		
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	MR97W	1:1:58	-0.04	2506.00	37550	0.0	25.20	24.07	1	50	Front	10	0.503	1.297	0.652	0.408	24.6		
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	MR97W	1:1:58	-0.02	2549.50	40185	0.0	25.20	24.11	1	50	Front	10	0.568	1.285	0.730	0.456	24.3		
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	MR97W	1:1:58	-0.01	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.575	1.247	0.717	0.448	24.2		
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	MR97W	1:1:58	-0.02	2636.50	41055	0.0	25.20	24.18	1	50	Front	10	0.586	1.265	0.741	0.463	24.1		
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	MR97W	1:1:58	-0.01	2680.00	41490	0.0	25.20	24.13	1	50	Front	10	0.561	1.279	0.718	0.449	24.2		
Head	LTE Band 41	20	QPSK	Titanium	Metal Loop	MR97W	1:1:58	-0.01	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.470	1.268	0.586	0.315	24.6		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.04	2506.00	37550	0.0	25.20	24.07	1	50	Front	10	0.508	1.297	0.529	0.321	25.5		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.04	2549.50	40185	0.0	25.20	24.11	1	50	Front	10	0.518	1.285	0.666	0.416	24.5		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.04	2593.00	42620	0.0	25.20	24.24	1	50	Front	10	0.607	1.247	0.751	0.469	24.6		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.04	2636.50	41055	0.0	25.20	24.18	1	50	Front	10	0.564	1.265	0.713	0.446	24.2		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.00	2680.00	41490	0.0	25.20	24.13	1	50	Front	10	0.528	1.279	0.714	0.446	24.2		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.04	2506.00	37550	1.0	24.20	23.07	50	25	Front	10	0.321	1.297	0.459	0.252	25.5		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.04	2549.50	40185	1.0	24.20	23.10	50	25	Front	10	0.413	1.288	0.532	0.333	24.5		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.06	2593.00	42620	1.0	24.20	23.17	50	25	Front	10	0.490	1.268	0.621	0.388	23.8		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links	MR97W	1:1:58	-0.01	2636.50	41055	1.0	24.20	23.15	50	25	Front	10	0.451	1.274	0.575	0.309	24.7		
Head	LTE Band 41	20	QPSK	Titanium	Metal Links																			

10.20 LTE Band 41 Standalone Extremity SAR

Table 10-20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power 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 41	20	QPSK	Aluminum	Sport	323VY	1:1.58	0.30	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.104	1.247	0.130	0.033		35.6	
Extremity	LTE Band 41	20	QPSK	Aluminum	Sport	323VY	1:1.58	0.04	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.070	1.268	0.089	0.022	A20	36.2	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	323VY	1:1.58	0.09	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.208	1.247	0.259	0.065		32.6	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Loop	323VY	1:1.58	0.01	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.163	1.268	0.207	0.052		32.6	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	323VY	1:1.58	-0.01	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.176	1.247	0.219	0.055		33.3	
Extremity	LTE Band 41	20	QPSK	Aluminum	Metal Links	323VY	1:1.58	0.03	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.142	1.268	0.180	0.045		33.2	
Extremity	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1.58	0.01	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.069	1.247	0.086	0.022		37.4	
Extremity	LTE Band 41	20	QPSK	Ceramic	Sport	65VD	1:1.58	0.16	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.057	1.268	0.072	0.018		37.1	
Extremity	LTE Band 41	20	QPSK	Ceramic	Metal Loop	65VD	1:1.58	0.05	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.166	1.247	0.207	0.052		33.6	
Extremity	LTE Band 41	20	QPSK	Ceramic	Metal Loop	65VD	1:1.58	0.02	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.128	1.268	0.162	0.041		33.6	
Extremity	LTE Band 41	20	QPSK	Ceramic	Metal Links	65VD	1:1.58	0.00	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.147	1.247	0.181	0.046		34.1	
Extremity	LTE Band 41	20	QPSK	Ceramic	Metal Links	65VD	1:1.58	0.02	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.120	1.268	0.152	0.038		33.9	
Extremity	LTE Band 41	20	QPSK	Titanium	Sport	LPK64	1:1.58	0.05	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.086	1.247	0.107	0.027		36.4	
Extremity	LTE Band 41	20	QPSK	Titanium	Sport	LPK64	1:1.58	0.06	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.069	1.268	0.087	0.022		36.3	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Loop	LPK64	1:1.58	0.02	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.154	1.247	0.192	0.048		33.9	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Loop	LPK64	1:1.58	0.02	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.119	1.268	0.151	0.038		33.9	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Links	LPK64	1:1.58	0.03	2593.00	40620	0.0	25.20	24.24	1	50	Back	0	0.139	1.247	0.173	0.043		34.3	
Extremity	LTE Band 41	20	QPSK	Titanium	Metal Links	LPK64	1:1.58	0.04	2593.00	40620	1.0	24.20	23.17	50	25	Back	0	0.114	1.268	0.145	0.036		34.1	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Extremity Spatial Peak 4.0 W/kg (mW/g) averaged over 10 grams								
Uncontrolled Exposure/General Population																								

10.21 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	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	NR Band n71	20	QPSK	Aluminum	Sport	RAWCM	1:1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.002	1.352	0.003	0.002		50.9	
Head	NR Band n71	20	QPSK	Aluminum	Sport	RAWCM	1:1	0.08	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.002	1.349	0.003	0.002		50.9	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.002	1.352	0.003	0.002		50.9	
Head	NR Band n71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.000	1.349	0.000	0.000		63.9	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	-0.02	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.002	1.352	0.003	0.002		50.9	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	0.05	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.002	1.349	0.003	0.002		50.9	
Head	NR Band n71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	0.09	680.50	136300	CP-OFDM	1.5	24.20	22.97	1	1	Front	10	0.000	1.327	0.000	0.000		62.5	
Head	NR Band n71	20	QPSK	Ceramic	Sport	196V1	1:1	0.09	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.000	1.352	0.000	0.000		63.9	
Head	NR Band n71	20	QPSK	Ceramic	Sport	196V1	1:1	0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.000	1.349	0.000	0.000		63.9	
Head	NR Band n71	20	QPSK	Ceramic	Metal Loop	196V1	1:1	0.04	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.001	1.352	0.001	0.001		53.9	
Head	NR Band n71	20	QPSK	Ceramic	Metal Loop	196V1	1:1	0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.000	1.349	0.000	0.000		63.9	
Head	NR Band n71	20	QPSK	Ceramic	Metal Links	196V1	1:1	0.01	680.50	136300	CP-OFDM	1.5	24.20	22.97	1	1	Front	10	0.000	1.327	0.000	0.000		62.5	
Head	NR Band n71	20	QPSK	Ceramic	Metal Links	196V1	1:1	0.05	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.000	1.352	0.000	0.000		63.9	
Head	NR Band n71	20	QPSK	Ceramic	Metal Links	196V1	1:1	0.04	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.000	1.349	0.000	0.000		63.9	
Head	NR Band n71	20	QPSK	Titanium	Sport	X9K76	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.001	1.352	0.001	0.001		53.9	
Head	NR Band n71	20	QPSK	Titanium	Sport	X9K76	1:1	0.02	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.001	1.349	0.001	0.001		53.9	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	X9K76	1:1	0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.002	1.352	0.003	0.002		50.9	
Head	NR Band n71	20	QPSK	Titanium	Metal Loop	X9K76	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.000	1.349	0.000	0.000		63.9	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	X9K76	1:1	0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Front	10	0.002	1.352	0.003	0.002		50.9	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	X9K76	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Front	10	0.002	1.349	0.003	0.002	A21	50.9	
Head	NR Band n71	20	QPSK	Titanium	Metal Links	X9K76	1:1	0.06	680.50	136300	CP-OFDM	1.5	24.20	22.97	1	1	Front	10	0.001	1.327	0.001	0.001		52.5	
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	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	NR Band n71	20	QPSK	Aluminum	Sport	RAWCM	1:1	0.05	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.099	1.352	0.080	0.020		40.2		
Extremity	NR Band n71	20	QPSK	Aluminum	Sport	RAWCM	1:1	-0.09	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.055	1.349	0.074	0.019		40.5		
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	-0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.187	1.352	0.253	0.063		35.2		
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.11	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.155	1.349	0.209	0.052		36.0		
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Loop	RAWCM	1:1	-0.02	680.50	136300	CP-OFDM	1.5	24.20	22.97	1	1	Back	0	0.065	1.327	0.086	0.022		38.4		
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.110	1.352	0.149	0.037		37.5		
Extremity	NR Band n71	20	QPSK	Aluminum	Metal Links	RAWCM	1:1	0.07	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.111	1.349	0.150	0.038		37.5		
Extremity	NR Band n71	20	QPSK	Ceramic	Sport	XHVCC	1:1	-0.15	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.115	1.352	0.155	0.039		37.3		
Extremity	NR Band n71	20	QPSK	Ceramic	Sport	XHVCC	1:1	-0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.119	1.349	0.161	0.040		37.2		
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	-0.08	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.179	1.352	0.234	0.059		35.0		
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	-0.06	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.195	1.349	0.263	0.066		35.0		
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.196	1.352	0.265	0.066	A22	35.0		
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	0.19	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.198	1.349	0.266	0.066		35.1		
Extremity	NR Band n71	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	-0.02	680.50	136300	CP-OFDM	1.5	24.20	22.97	1	1	Back	0	0.131	1.327	0.174	0.044		35.3		
Extremity	NR Band n71	20	QPSK	Titanium	Sport	N31V4	1:1	0.20	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.061	1.352	0.082	0.021		40.0		
Extremity	NR Band n71	20	QPSK	Titanium	Sport	N31V4	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.053	1.349	0.071	0.018		40.3		
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	N31V4	1:1	-0.25	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.146	1.352	0.197	0.046		36.3		
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	N31V4	1:1	0.03	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.059	1.349	0.134	0.034		38.0		
Extremity	NR Band n71	20	QPSK	Titanium	Metal Loop	N31V4	1:1	-0.06	680.50	136300	CP-OFDM	1.5	24.20	22.97	1	1	Back	0	0.076	1.327	0.101	0.025		37.7		
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	N31V4	1:1	0.08	680.50	136300	DFT-s-OFDM	0.0	25.70	24.39	1	1	Back	0	0.095	1.352	0.128	0.033		38.3		
Extremity	NR Band n71	20	QPSK	Titanium	Metal Links	N31V4	1:1	0.01	680.50	136300	DFT-s-OFDM	0.0	25.70	24.40	50	28	Back	0	0.100	1.349	0.135	0.034		37.9		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																							Extremity			
Spatial Peak																							4.0 W/kg (mw/kg)			
Uncontrolled Exposure (General Population)																							averaged over 30 days			

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 #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n12	15	QPSK	Aluminum	Sport	FCFV6	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Aluminum	Sport	FCFV6	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	FCFV6	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Aluminum	Metal Loop	FCFV6	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	FCFV6	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.001	1.230	0.001	0.001		54.3	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	FCFV6	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Aluminum	Metal Links	FCFV6	1:1	0.01	707.50	141500	CP-OFDM	1.5	24.20	23.22	1	1	Front	10	0.000	1.253	0.000	0.000		62.8	
Head	NR Band n12	15	QPSK	Ceramic	Sport	GSVD	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Ceramic	Sport	GSVD	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.001	1.230	0.001	0.001		54.3	
Head	NR Band n12	15	QPSK	Ceramic	Sport	GSVD	1:1	0.02	707.50	141500	CP-OFDM	1.5	24.20	23.22	1	1	Front	10	0.000	1.253	0.000	0.000		62.8	
Head	NR Band n12	15	QPSK	Ceramic	Metal Loop	GSVD	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Ceramic	Metal Loop	GSVD	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Ceramic	Metal Links	GSVD	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Ceramic	Metal Links	GSVD	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Sport	KCSLX	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Sport	KCSLX	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	KCSLX	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.000	1.230	0.000	0.000		64.3	
Head	NR Band n12	15	QPSK	Titanium	Metal Loop	KCSLX	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.001	1.230	0.001	0.001		54.3	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	KCSLX	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Front	10	0.002	1.230	0.002	0.002		51.3	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	KCSLX	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Front	10	0.002	1.230	0.002	0.002		51.3	
Head	NR Band n12	15	QPSK	Titanium	Metal Links	KCSLX	1:1	0.01	707.50	141500	CP-OFDM	1.5	24.20	23.22	1	1	Front	10	0.000	1.253	0.000	0.000	A23	61.8	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged 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 #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	LVXXM	1:1	-0.17	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.042	1.230	0.052	0.013		42.1	
Extremity	NR Band n12	15	QPSK	Aluminum	Sport	LVXXM	1:1	0.10	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.049	1.230	0.061	0.015		41.4	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loop	LVXXM	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.108	1.230	0.133	0.034		38.0	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Loop	LVXXM	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.096	1.230	0.119	0.030		38.5	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	LVXXM	1:1	0.17	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.113	1.230	0.139	0.035		37.8	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	LVXXM	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.108	1.230	0.134	0.034		37.9	
Extremity	NR Band n12	15	QPSK	Aluminum	Metal Links	LVXXM	1:1	-0.02	707.50	141500	CP-OFDM	1.5	24.20	23.22	1	1	Back	0	0.075	1.253	0.094	0.024		38.0	
Extremity	NR Band n12	15	QPSK	Ceramic	Sport	GSVD	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.152	1.230	0.187	0.047		36.5	
Extremity	NR Band n12	15	QPSK	Ceramic	Sport	GSVD	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.149	1.230	0.185	0.046		36.5	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Loop	GSVD	1:1	0.11	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.185	1.230	0.228	0.057		35.6	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Loop	GSVD	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.187	1.230	0.232	0.058		35.6	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Links	GSVD	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.221	1.230	0.272	0.068	A24	34.9	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Links	GSVD	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.207	1.230	0.256	0.064		35.1	
Extremity	NR Band n12	15	QPSK	Ceramic	Metal Links	GSVD	1:1	0.09	707.50	141500	CP-OFDM	1.5	24.20	23.22	1	1	Back	0	0.157	1.253	0.197	0.049		34.8	
Extremity	NR Band n12	15	QPSK	Titanium	Sport	73K6P	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.041	1.230	0.050	0.013		42.2	
Extremity	NR Band n12	15	QPSK	Titanium	Sport	73K6P	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.040	1.230	0.050	0.013		42.3	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	73K6P	1:1	-0.10	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.071	1.230	0.087	0.022		39.8	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Loop	73K6P	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.068	1.230	0.084	0.021		40.0	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	73K6P	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	25.70	24.80	1	1	Back	0	0.160	1.230	0.197	0.049		36.3	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	73K6P	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	25.70	24.77	36	22	Back	0	0.158	1.230	0.154	0.039		37.3	
Extremity	NR Band n12	15	QPSK	Titanium	Metal Links	73K6P	1:1	-0.11	707.50	141500	CP-OFDM	1.5	24.20	23.22	1	1	Back	0	0.085	1.253	0.107	0.027		37.4	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

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 #	PLimit [dBm]	Overall PLimit [dBm]	
Head	NR Band n14	10	QPSK	Aluminum	Sport	RAWCM	1:1	-0.17	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.001	1.393	0.001	0.001		53.8		
Head	NR Band n14	10	QPSK	Aluminum	Sport	RAWCM	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Front	10	0.002	1.390	0.003	0.002		50.8		
Head	NR Band n14	10	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.000	1.393	0.000	0.000		63.8		
Head	NR Band n14	10	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Front	10	0.000	1.390	0.000	0.000		63.8		
Head	NR Band n14	10	QPSK	Aluminum	Metal Links	RAWCM	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.006	1.393	0.006	0.005		46.0		
Head	NR Band n14	10	QPSK	Aluminum	Metal Links	RAWCM	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Front	10	0.004	1.390	0.004	0.004		47.8		
Head	NR Band n14	10	QPSK	Aluminum	Metal Links	RAWCM	1:1	0.15	793.00	158600	CP-OFDM	1.5	24.20	22.92	1	1	Front	10	0.003	1.343	0.004	0.003		47.7		
Head	NR Band n14	10	QPSK	Ceramic	Sport	196V1	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.000	1.393	0.000	0.000		63.8		
Head	NR Band n14	10	QPSK	Ceramic	Sport	196V1	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Front	10	0.002	1.390	0.003	0.002		50.8		
Head	NR Band n14	10	QPSK	Ceramic	Metal Loop	196V1	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.000	1.393	0.000	0.000		63.8		
Head	NR Band n14	10	QPSK	Ceramic	Metal Loop	196V1	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	25	14	Front	10	0.000	1.390	0.000	0.000		63.8		
Head	NR Band n14	10	QPSK	Ceramic	Metal Links	196V1	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.000	1.393	0.000	0.000		63.8		
Head	NR Band n14	10	QPSK	Ceramic	Metal Links	196V1	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Front	10	0.001	1.390	0.002	0.001		50.8		
Head	NR Band n14	10	QPSK	Ceramic	Metal Links	196V1	1:1	0.06	793.00	158600	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 n14	10	QPSK	Titanium	Sport	X976	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.002	1.393	0.003	0.002		50.8		
Head	NR Band n14	10	QPSK	Titanium	Sport	X976	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Front	10	0.001	1.390	0.002	0.001		50.8		
Head	NR Band n14	10	QPSK	Titanium	Metal Loop	X976	1:1	0.21	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.000	1.393	0.000	0.000		63.8		
Head	NR Band n14	10	QPSK	Titanium	X976	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Front	10	0.000	1.390	0.000	0.000		63.8			
Head	NR Band n14	10	QPSK	Titanium	Metal Links	X976	1:1	0.18	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Front	10	0.000	1.393	0.007	0.004		46.8		
Head	NR Band n14	10	QPSK	Titanium	Metal Links	X976	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Front	10	0.000	1.390	0.002	0.001	A25	46.0		
Head	NR Band n14	10	QPSK	Titanium	Metal Links	X976	1:1	0.04	793.00	158600	CP-OFDM	1.5	24.20	22.92	1	1	Front	10	0.004	1.343	0.005	0.003		46.4		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																										
																			Head							
																			1.6 W/kg (mW/g)							
																			averaged over 1 gram							

10.26 NR Band n14 Standalone Extremity SAR

Table 10-26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	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]
Extremity	NR Band n14	10	QPSK	Aluminum	Sport	RAWCM	1:1	-0.13	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Back	0	0.079	1.393	0.110	0.028		38.8	
Extremity	NR Band n14	10	QPSK	Aluminum	Sport	RAWCM	1:1	-0.14	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.080	1.390	0.111	0.028		38.7	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Loop	RAWCM	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Back	0	0.123	1.393	0.450	0.113	A26	32.7	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Loop	RAWCM	1:1	-0.20	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.186	1.390	0.259	0.065		35.1	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Loop	RAWCM	1:1	-0.07	793.00	158600	CP-OFDM	1.5	24.20	22.92	1	1	Back	0	0.119	1.343	0.160	0.040		35.7	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Links	RAWCM	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Back	0	0.215	1.393	0.299	0.075		34.4	
Extremity	NR Band n14	10	QPSK	Aluminum	Metal Links	RAWCM	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.201	1.390	0.279	0.070		34.7	
Extremity	NR Band n14	10	QPSK	Ceramic	Sport	196V1	1:1	-0.10	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.192	1.393	0.267	0.067		34.9	
Extremity	NR Band n14	10	QPSK	Ceramic	Sport	196V1	1:1	-0.10	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.186	1.390	0.259	0.065		35.1	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Loop	196V1	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Back	0	0.248	1.393	0.345	0.086		33.8	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Loop	196V1	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.120	1.390	0.445	0.111		32.7	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Loop	196V1	1:1	-0.14	793.00	158600	CP-OFDM	1.5	24.20	22.92	1	1	Back	0	0.207	1.343	0.278	0.070		33.3	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Links	196V1	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Back	0	0.280	1.393	0.390	0.098		32.3	
Extremity	NR Band n14	10	QPSK	Ceramic	Metal Links	196V1	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.290	1.390	0.403	0.101		33.2	
Extremity	NR Band n14	10	QPSK	Titanium	Sport	W477G	1:1	-0.10	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Back	0	0.076	1.393	0.106	0.027		39.0	
Extremity	NR Band n14	10	QPSK	Titanium	Sport	W477G	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.088	1.390	0.095	0.024		39.5	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	W477G	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Back	0	0.236	1.393	0.315	0.079		34.2	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	W477G	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.274	1.390	0.381	0.095		33.4	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Loop	W477G	1:1	-0.03	793.00	158600	CP-OFDM	1.5	24.20	22.92	1	1	Back	0	0.139	1.343	0.187	0.047		35.0	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Links	W477G	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.70	24.26	1	1	Back	0	0.221	1.393	0.308	0.077		34.3	
Extremity	NR Band n14	10	QPSK	Titanium	Metal Links	W477G	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	25.70	24.27	25	14	Back	0	0.218	1.390	0.303	0.076		34.4	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

10.27 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 #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n26	20	QPSK	Aluminum	Sport	KC004	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.000	1.268	0.000	0.000		64.2	
Head	NR Band n26	20	QPSK	Aluminum	Sport	KC004	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n26	20	QPSK	Aluminum	Metal Loop	KC004	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.001	1.268	0.001	0.001		64.2	
Head	NR Band n26	20	QPSK	Aluminum	Metal Loop	KC004	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n26	20	QPSK	Aluminum	Metal Links	KC004	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.005	1.268	0.006	0.004		47.2	
Head	NR Band n26	20	QPSK	Aluminum	Metal Links	KC004	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.004	1.259	0.005	0.003		48.2	
Head	NR Band n26	20	QPSK	Aluminum	Metal Links	KC004	1:1	0.05	831.50	166300	CP-OFDM	1.5	24.20	23.31	1	1	Front	10	0.003	1.227	0.004	0.003		48.1	
Head	NR Band n26	20	QPSK	Ceramic	Sport	Q6P14	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.000	1.268	0.000	0.000		64.2	
Head	NR Band n26	20	QPSK	Ceramic	Sport	Q6P14	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n26	20	QPSK	Ceramic	Metal Loop	Q6P14	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.000	1.268	0.000	0.000		64.2	
Head	NR Band n26	20	QPSK	Ceramic	Metal Loop	Q6P14	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.002	1.259	0.003	0.002		51.2	
Head	NR Band n26	20	QPSK	Ceramic	Metal Links	Q6P14	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.002	1.268	0.003	0.002		51.2	
Head	NR Band n26	20	QPSK	Ceramic	Metal Links	Q6P14	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.002	1.259	0.003	0.002		51.2	
Head	NR Band n26	20	QPSK	Ceramic	Metal Links	Q6P14	1:1	0.02	831.50	166300	CP-OFDM	1.5	24.20	23.31	1	1	Front	10	0.002	1.227	0.002	0.001		49.8	
Head	NR Band n26	20	QPSK	Titanium	Sport	YKGGG	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.000	1.268	0.000	0.000		64.2	
Head	NR Band n26	20	QPSK	Titanium	Sport	YKGGG	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	YKGGG	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.001	1.268	0.001	0.001		54.2	
Head	NR Band n26	20	QPSK	Titanium	Metal Loop	YKGGG	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.002	1.259	0.003	0.002		51.2	
Head	NR Band n26	20	QPSK	Titanium	Metal Links	YKGGG	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Front	10	0.004	1.268	0.005	0.003		48.2	
Head	NR Band n26	20	QPSK	Titanium	Metal Links	YKGGG	1:1	0.10	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Front	10	0.006	1.259	0.008	0.005	A27	46.5	
Head	NR Band n26	20	QPSK	Titanium	Metal Links	YKGGG	1:1	0.02	831.50	166300	CP-OFDM	1.5	24.20	23.31	1	1	Front	10	0.003	1.227	0.004	0.003		48.1	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram						

10.28 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 (SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n26	20	QPSK	Aluminum	Sport	KC004	1:1	-0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.053	1.268	0.067	0.017		40.9	
Extremity	NR Band n26	20	QPSK	Aluminum	Sport	KC004	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.055	1.268	0.069	0.017		40.8	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	KC004	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.211	1.268	0.268	0.067		34.9	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Loop	KC004	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.081	1.259	0.102	0.026		39.1	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Links	KC004	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.263	1.268	0.359	0.080	A28	33.7	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Links	KC004	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.152	1.259	0.191	0.048		36.4	
Extremity	NR Band n26	20	QPSK	Aluminum	Metal Links	KC004	1:1	-0.05	831.50	166300	CP-OFDM	1.5	24.20	23.31	1	1	Back	0	0.138	1.227	0.169	0.040		35.4	
Extremity	NR Band n26	20	QPSK	Ceramic	Sport	Q6P14	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.151	1.268	0.191	0.048		36.4	
Extremity	NR Band n26	20	QPSK	Ceramic	Sport	Q6P14	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.153	1.268	0.202	0.050		36.5	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Loop	Q6P14	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.159	1.268	0.252	0.063		35.2	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Loop	Q6P14	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.208	1.259	0.262	0.066		35.0	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Links	Q6P14	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.233	1.268	0.295	0.074		34.5	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Links	Q6P14	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.159	1.268	0.202	0.050		35.1	
Extremity	NR Band n26	20	QPSK	Ceramic	Metal Links	Q6P14	1:1	-0.04	831.50	166300	CP-OFDM	1.5	24.20	23.31	1	1	Back	0	0.166	1.227	0.204	0.051		34.6	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	YKGG6	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.048	1.268	0.061	0.015		41.3	
Extremity	NR Band n26	20	QPSK	Titanium	Sport	YKGG6	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.049	1.268	0.062	0.016		41.3	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	YKGG6	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.087	1.268	0.110	0.026		38.8	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Loop	YKGG6	1:1	0.19	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.085	1.259	0.107	0.027		38.9	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	YKGG6	1:1	-0.19	831.50	166300	DFT-s-OFDM	0.0	25.70	24.67	1	53	Back	0	0.075	1.268	0.222	0.056		37.6	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	YKGG6	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.70	24.70	50	28	Back	0	0.115	1.259	0.145	0.036		37.6	
Extremity	NR Band n26	20	QPSK	Titanium	Metal Links	YKGG6	1:1	0.11	831.50	166300	CP-OFDM	1.5	24.20	23.31	1	1	Back	0	0.078	1.227	0.096	0.024		37.9	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT													Extremity												
Spatial Peak													4.0 W/kg (mw/g)												
Uncontrolled Exposure (General Population)													averaged over 10 kgms												

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 #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n5	20	QPSK	Aluminum	Sport	Q84G4	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Aluminum	Sport	Q84G4	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Aluminum	Metal Loop	Q84G4	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Aluminum	Metal Loop	Q84G4	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	Q84G4	1:1	-0.08	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000	A29	51.2	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	Q84G4	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Aluminum	Metal Links	Q84G4	1:1	-0.08	836.50	167300	CP-OFDM	1.5	24.20	23.14	1	1	Front	10	0.000	1.276	0.000	0.000		62.7	
Head	NR Band n5	20	QPSK	Ceramic	Sport	J9VQ2	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Ceramic	Sport	J9VQ2	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Ceramic	Metal Loop	J9VQ2	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Ceramic	Metal Loop	J9VQ2	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Ceramic	Metal Links	J9VQ2	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Ceramic	Metal Links	J9VQ2	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Ceramic	Metal Links	J9VQ2	1:1	-0.09	836.50	167300	CP-OFDM	1.5	24.20	23.14	1	1	Front	10	0.000	1.276	0.000	0.000		62.7	
Head	NR Band n5	20	QPSK	Titanium	Sport	CZWAC	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Titanium	Sport	CZWAC	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	CZWAC	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Titanium	Metal Loop	CZWAC	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	CZWAC	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Front	10	0.000	1.259	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	CZWAC	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Front	10	0.000	1.279	0.000	0.000		64.2	
Head	NR Band n5	20	QPSK	Titanium	Metal Links	CZWAC	1:1	-0.06	836.50	167300	CP-OFDM	1.5	24.20	23.14	1	1	Front	10	0.000	1.276	0.000	0.000		62.7	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram						

10.30 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 Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n5	20	QPSK	Aluminum	Sport	690YK	1:1	-0.14	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.050	1.259	0.063	0.016		41.2	
Extremity	NR Band n5	20	QPSK	Aluminum	Sport	690YK	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Back	0	0.053	1.279	0.068	0.017		40.9	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Loop	690YK	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.061	1.259	0.077	0.019		40.4	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Loop	690YK	1:1	-0.12	836.50	167300	DFT-s-OFDM	0.0	25.70	24.66	50	28	Back	0	0.081	1.279	0.104	0.026		39.1	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	690YK	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.137	1.259	0.172	0.043		36.8	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	690YK	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Back	0	0.136	1.279	0.200	0.050		36.2	
Extremity	NR Band n5	20	QPSK	Aluminum	Metal Links	690YK	1:1	-0.06	836.50	167300	CP-OFDM	1.5	24.20	23.14	1	1	Back	0	0.089	1.276	0.112	0.028		37.2	
Extremity	NR Band n5	20	QPSK	Ceramic	Sport	79P92	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.107	1.259	0.210	0.053		36.0	
Extremity	NR Band n5	20	QPSK	Ceramic	Sport	79P92	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Back	0	0.164	1.279	0.210	0.053		36.0	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Loop	79P92	1:1	-0.15	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.171	1.259	0.215	0.054		35.9	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Loop	79P92	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Back	0	0.136	1.279	0.161	0.040		37.1	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Links	79P92	1:1	-0.10	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.218	1.259	0.274	0.069	A30	34.8	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Links	79P92	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Back	0	0.206	1.279	0.263	0.066		35.0	
Extremity	NR Band n5	20	QPSK	Ceramic	Metal Links	79P92	1:1	-0.03	836.50	167300	CP-OFDM	1.5	24.20	23.14	1	1	Back	0	0.149	1.276	0.190	0.048		34.9	
Extremity	NR Band n5	20	QPSK	Titanium	Sport	X9K76	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.049	1.259	0.062	0.016		41.3	
Extremity	NR Band n5	20	QPSK	Titanium	Sport	X9K76	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Back	0	0.054	1.279	0.069	0.017		40.8	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	X9K76	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.087	1.259	0.110	0.028		38.8	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Loop	X9K76	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Back	0	0.091	1.279	0.116	0.029		38.5	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	X9K76	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	25.70	24.70	1	1	Back	0	0.126	1.259	0.159	0.040		37.2	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	X9K76	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.70	24.63	50	28	Back	0	0.131	1.279	0.168	0.042		37.0	
Extremity	NR Band n5	20	QPSK	Titanium	Metal Links	X9K76	1:1	-0.08	836.50	167300	CP-OFDM	1.5	24.20	23.14	1	1	Back	0	0.090	1.276	0.115	0.029		37.1	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

10.31 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 Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	
Head	NR Band n66	20	QPSK	Aluminum	Sport	P9TLJ	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.094	1.186	0.111	0.069		34.3		
Head	NR Band n66	20	QPSK	Aluminum	Sport	P9TLJ	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.099	1.194	0.114	0.071		34.0		
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	P9TLJ	1:1	-0.11	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.099	1.186	0.117	0.073		34.0		
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	P9TLJ	1:1	-0.02	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.110	1.194	0.131	0.082		33.6		
Head	NR Band n66	20	QPSK	Aluminum	Metal Loop	P9TLJ	1:1	-0.09	1720.00	344000	CP-OFDM	1.5	23.70	22.79	1	1	Front	10	0.084	1.233	0.079	0.049		34.3		
Head	NR Band n66	20	QPSK	Aluminum	Metal Links	P9TLJ	1:1	-0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.095	1.186	0.113	0.071		34.2		
Head	NR Band n66	20	QPSK	Aluminum	Metal Links	P9TLJ	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.107	1.194	0.128	0.080		33.7		
Head	NR Band n66	20	QPSK	Ceramic	Sport	XHVCC	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.099	1.186	0.129	0.081		33.6		
Head	NR Band n66	20	QPSK	Ceramic	Sport	XHVCC	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.108	1.194	0.130	0.081		33.7		
Head	NR Band n66	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	-0.02	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.156	1.186	0.185	0.116	A31	32.1		
Head	NR Band n66	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	-0.02	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.133	1.194	0.159	0.099		32.7		
Head	NR Band n66	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	-0.03	1720.00	344000	CP-OFDM	1.5	23.70	22.79	1	1	Front	10	0.070	1.233	0.086	0.054		33.9		
Head	NR Band n66	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.139	1.186	0.160	0.100		34.0		
Head	NR Band n66	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	-0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.140	1.194	0.167	0.104		32.5		
Head	NR Band n66	20	QPSK	Titanium	Sport	9673V	1:1	-0.19	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.074	1.186	0.088	0.055		35.3		
Head	NR Band n66	20	QPSK	Titanium	Sport	9673V	1:1	-0.09	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	50	28	Front	10	0.073	1.186	0.087	0.054		35.2		
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	9673V	1:1	-0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.113	1.186	0.132	0.083		33.5		
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	9673V	1:1	-0.00	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.106	1.194	0.127	0.079		33.7		
Head	NR Band n66	20	QPSK	Titanium	Metal Loop	9673V	1:1	-0.02	1720.00	344000	CP-OFDM	1.5	23.70	22.79	1	1	Front	10	0.099	1.233	0.073	0.046		34.6		
Head	NR Band n66	20	QPSK	Titanium	Metal Links	9673V	1:1	-0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Front	10	0.084	1.186	0.111	0.069		34.3		
Head	NR Band n66	20	QPSK	Titanium	Metal Links	9673V	1:1	-0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Front	10	0.092	1.194	0.110	0.069		34.3		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																			Head							
Spatial Peak																			1.5 W/kg (mW/g)							
Uncontrolled Exposure / General Population																			Averaged over 10g/m							

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 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n66	20	QPSK	Aluminum	Sport	P9TJL	1:1	0.06	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.033	1.186	0.039	0.030		42.8	
Extremity	NR Band n66	20	QPSK	Aluminum	Sport	P9TJL	1:1	0.07	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.035	1.194	0.042	0.031		42.5	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Loop	P9TJL	1:1	0.02	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.025	1.186	0.030	0.008		44.0	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Loop	P9TJL	1:1	0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.039	1.194	0.047	0.032		42.0	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	P9TJL	1:1	0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.053	1.186	0.063	0.036		40.7	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	P9TJL	1:1	0.05	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.061	1.194	0.073	0.038		40.1	
Extremity	NR Band n66	20	QPSK	Aluminum	Metal Links	P9TJL	1:1	0.03	1720.00	344000	CP-OFDM	1.5	23.70	22.79	1	1	Back	0	0.045	1.233	0.055	0.034		39.8	
Extremity	NR Band n66	20	QPSK	Ceramic	Sport	XHVCC	1:1	-0.12	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.091	1.186	0.108	0.027		38.4	
Extremity	NR Band n66	20	QPSK	Ceramic	Sport	XHVCC	1:1	-0.14	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.095	1.194	0.113	0.028		38.2	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	0.06	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.086	1.186	0.102	0.026		38.6	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	0.09	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.076	1.194	0.091	0.023		39.1	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	-0.10	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.146	1.186	0.173	0.043	A32	36.3	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	-0.20	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.143	1.194	0.170	0.043		36.4	
Extremity	NR Band n66	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	-0.08	1720.00	344000	CP-OFDM	1.5	23.70	22.79	1	1	Back	0	0.104	1.233	0.128	0.032		36.1	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	73K6P	1:1	0.08	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.064	1.186	0.076	0.029		39.9	
Extremity	NR Band n66	20	QPSK	Titanium	Sport	73K6P	1:1	-0.21	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.071	1.194	0.085	0.021		39.4	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	73K6P	1:1	0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.104	1.186	0.123	0.031		37.8	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	73K6P	1:1	0.15	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.105	1.194	0.125	0.031		37.7	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Loop	73K6P	1:1	0.12	1720.00	344000	CP-OFDM	1.5	23.70	22.79	1	1	Back	0	0.047	1.233	0.058	0.015		39.6	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Links	73K6P	1:1	0.06	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.46	1	1	Back	0	0.077	1.186	0.091	0.023		39.1	
Extremity	NR Band n66	20	QPSK	Titanium	Metal Links	73K6P	1:1	0.03	1720.00	344000	DFT-s-OFDM	0.0	25.20	24.43	50	28	Back	0	0.076	1.194	0.091	0.023		39.1	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

10.33 NR Band n25 Standalone Head SAR

Table 10-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	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 n25	20	QPSK	Aluminum	Sport	690YK	1:1	-0.03	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.138	1.245	0.172	0.108		32.4	
Head	NR Band n25	20	QPSK	Aluminum	Sport	690YK	1:1	-0.02	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Front	10	0.130	1.259	0.164	0.103		32.6	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	690YK	1:1	0.01	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.153	1.245	0.190	0.119		31.9	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	690YK	1:1	0.08	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.18	50	28	Front	10	0.148	1.259	0.186	0.116		32.0	
Head	NR Band n25	20	QPSK	Aluminum	Metal Loop	690YK	1:1	0.02	1905.00	381000	CP-OFDM	1.5	23.70	22.79	1	1	Front	10	0.105	1.233	0.129	0.081		32.1	
Head	NR Band n25	20	QPSK	Aluminum	Metal Links	690YK	1:1	0.10	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.108	1.245	0.134	0.084		33.5	
Head	NR Band n25	20	QPSK	Aluminum	Metal Links	690YK	1:1	0.03	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Front	10	0.105	1.259	0.132	0.083		33.5	
Head	NR Band n25	20	QPSK	Ceramic	Sport	XHVCC	1:1	0.08	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.181	1.245	0.225	0.141		31.2	
Head	NR Band n25	20	QPSK	Ceramic	Sport	XHVCC	1:1	0.09	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Front	10	0.163	1.259	0.205	0.128		31.6	
Head	NR Band n25	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	0.03	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.217	1.245	0.270	0.169	A33	30.4	
Head	NR Band n25	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	0.03	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Front	10	0.213	1.259	0.268	0.168		30.5	
Head	NR Band n25	20	QPSK	Ceramic	Metal Loop	XHVCC	1:1	0.03	1905.00	381000	CP-OFDM	1.5	23.70	22.79	1	1	Front	10	0.147	1.233	0.181	0.113		30.7	
Head	NR Band n25	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	0.04	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.159	1.245	0.198	0.124		31.8	
Head	NR Band n25	20	QPSK	Ceramic	Metal Links	XHVCC	1:1	0.00	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Front	10	0.164	1.259	0.206	0.129		31.6	
Head	NR Band n25	20	QPSK	Titanium	Sport	LG363	1:1	0.06	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.133	1.245	0.166	0.104		32.6	
Head	NR Band n25	20	QPSK	Titanium	Sport	LG363	1:1	0.04	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Front	10	0.131	1.259	0.165	0.103		32.6	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	LG363	1:1	0.03	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.178	1.245	0.222	0.139		31.3	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	LG363	1:1	0.00	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Front	10	0.169	1.259	0.213	0.133		31.5	
Head	NR Band n25	20	QPSK	Titanium	Metal Loop	LG363	1:1	-0.06	1905.00	381000	CP-OFDM	1.5	23.70	22.79	1	1	Front	10	0.126	1.233	0.155	0.087		31.8	
Head	NR Band n25	20	QPSK	Titanium	Metal Links	LG363	1:1	0.12	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Front	10	0.129	1.245	0.161	0.101		32.7	
Head	NR Band n25	20	QPSK	Titanium	Metal Links	LG363	1:1	0.01	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Front	10	0.140	1.259	0.176	0.110		32.3	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram						

10.34 NR Band n25 Standalone Extremity SAR

Table 10-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	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 (SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	
Extremity	NR Band n25	20	QPSK	Aluminum	Sport	Y7N13	1:1	-0.04	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.129	1.245	0.161	0.040		36.7		
Extremity	NR Band n25	20	QPSK	Aluminum	Sport	Y7N13	1:1	0.01	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.144	1.259	0.181	0.043		36.1		
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	Y7N13	1:1	-0.11	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.140	1.245	0.174	0.044		36.3		
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	Y7N13	1:1	-0.04	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.150	1.259	0.189	0.047	A34	35.9		
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Loop	Y7N13	1:1	-0.05	1905.00	381000	CP-OFDM	1.5	23.70	22.79	1	1	Back	0	0.103	1.233	0.127	0.032		36.2		
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	Y7N13	1:1	0.10	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.104	1.245	0.129	0.052		37.6		
Extremity	NR Band n25	20	QPSK	Aluminum	Metal Links	Y7N13	1:1	0.08	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.107	1.259	0.135	0.034		37.4		
Extremity	NR Band n25	20	QPSK	Ceramic	Sport	XHVC6	1:1	0.06	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.139	1.245	0.173	0.043		36.3		
Extremity	NR Band n25	20	QPSK	Ceramic	Sport	XHVC6	1:1	0.05	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.145	1.259	0.185	0.046		36.1		
Extremity	NR Band n25	20	QPSK	Ceramic	Sport	XHVC6	1:1	0.06	1905.00	381000	CP-OFDM	1.5	23.70	22.79	1	1	Back	0	0.097	1.233	0.120	0.030		36.4		
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Loop	XHVC6	1:1	0.05	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.143	1.245	0.178	0.045		36.2		
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Loop	XHVC6	1:1	-0.11	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.116	1.259	0.146	0.037		37.1		
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Links	XHVC6	1:1	0.07	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.093	1.233	0.125	0.032		37.2		
Extremity	NR Band n25	20	QPSK	Ceramic	Metal Links	XHVC6	1:1	0.07	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.099	1.259	0.099	0.025		38.7		
Extremity	NR Band n25	20	QPSK	Titanium	Sport	LG353	1:1	-0.04	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.108	1.245	0.134	0.034		37.4		
Extremity	NR Band n25	20	QPSK	Titanium	Sport	LG353	1:1	0.01	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.112	1.259	0.141	0.033		37.7		
Extremity	NR Band n25	20	QPSK	Titanium	Sport	LG353	1:1	0.30	1905.00	381000	CP-OFDM	1.5	23.70	22.79	1	1	Back	0	0.073	1.233	0.090	0.023		37.7		
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	LG353	1:1	0.02	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.100	1.245	0.125	0.031		37.8		
Extremity	NR Band n25	20	QPSK	Titanium	Metal Loop	LG353	1:1	0.07	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.093	1.259	0.117	0.029		38.0		
Extremity	NR Band n25	20	QPSK	Titanium	Metal Links	LG353	1:1	0.18	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.25	1	1	Back	0	0.060	1.245	0.112	0.028		38.2		
Extremity	NR Band n25	20	QPSK	Titanium	Metal Links	LG353	1:1	0.01	1905.00	381000	DFT-s-OFDM	0.0	25.20	24.20	50	28	Back	0	0.076	1.259	0.096	0.024		38.9		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																			Extremity							
Spatial Peak																			4.0 W/kg (mw/g)							
Uncontrolled Exposure (General Population)																			averaged over 10 kg limbs							

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 (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]			
Head	NR Band n7	20	QPSK	Aluminum	Sport	M9MBJ	1:1	0.01	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.715	1.211	0.866	0.541	23.7					
Head	NR Band n7	20	QPSK	Aluminum	Sport	M9MBJ	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	24.30	23.43	1	53	Front	10	0.725	1.222	0.886	0.554	23.6					
Head	NR Band n7	20	QPSK	Aluminum	Sport	M9MBJ	1:1	0.04	2560.00	512000	DFT-s-OFDM	0.0	24.30	23.40	1	53	Front	10	0.802	1.230	1.109	0.693	22.7					
Head	NR Band n7	20	QPSK	Aluminum	Sport	M9MBJ	1:1	0.02	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.26	50	28	Front	10	0.696	1.271	0.885	0.553	23.6					
Head	NR Band n7	20	QPSK	Aluminum	Sport	M9MBJ	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	24.30	23.23	50	28	Front	10	0.774	1.279	0.990	0.619	23.2					
Head	NR Band n7	20	QPSK	Aluminum	Sport	M9MBJ	1:1	0.07	2560.00	512000	DFT-s-OFDM	0.0	24.30	23.25	50	28	Front	10	0.910	1.274	1.159	0.724	22.5					
Head	NR Band n7	20	QPSK	Aluminum	Sport	M9MBJ	1:1	0.01	2535.00	502000	DFT-s-OFDM	0.1	24.20	23.06	100	0	Front	10	0.694	1.300	0.902	0.564	23.5					
Head	NR Band n7	20	QPSK	Aluminum	Sport	M9MBJ	1:1	0.05	2535.00	502000	CP-OFDM	0.6	23.70	22.58	1	1	Front	10	0.595	1.294	0.770	0.481	23.6					
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	M9MBJ	1:1	0.00	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.335	1.211	0.648	0.405	25.0					
Head	NR Band n7	20	QPSK	Aluminum	Metal Loop	M9MBJ	1:1	0.09	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.36	50	28	Front	10	0.557	1.271	0.708	0.443	24.6					
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	M9MBJ	1:1	0.00	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.522	1.211	0.632	0.395	25.1					
Head	NR Band n7	20	QPSK	Aluminum	Metal Links	M9MBJ	1:1	-0.01	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.26	50	28	Front	10	0.495	1.271	0.629	0.393	25.1					
Head	NR Band n7	20	QPSK	Ceramic	Sport	7FLC4	1:1	0.08	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.762	1.211	0.933	0.577	23.1					
Head	NR Band n7	20	QPSK	Ceramic	Sport	7FLC4	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	24.30	23.43	1	53	Front	10	0.740	1.222	0.904	0.565	23.6					
Head	NR Band n7	20	QPSK	Ceramic	Sport	7FLC4	1:1	0.01	2560.00	512000	DFT-s-OFDM	0.0	24.30	23.40	1	53	Front	10	0.793	1.230	0.975	0.609	23.2					
Head	NR Band n7	20	QPSK	Ceramic	Sport	7FLC4	1:1	0.05	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.26	50	28	Front	10	0.783	1.271	0.995	0.622	23.1					
Head	NR Band n7	20	QPSK	Ceramic	Sport	7FLC4	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	24.30	23.23	50	28	Front	10	0.792	1.279	1.013	0.633	23.1					
Head	NR Band n7	20	QPSK	Ceramic	Sport	7FLC4	1:1	0.05	2560.00	512000	DFT-s-OFDM	0.0	24.30	23.25	50	28	Front	10	0.855	1.274	1.089	0.681	22.7					
Head	NR Band n7	20	QPSK	Ceramic	Sport	7FLC4	1:1	0.04	2535.00	502000	DFT-s-OFDM	0.1	24.20	23.06	100	0	Front	10	0.648	1.300	0.842	0.526	23.8					
Head	NR Band n7	20	QPSK	Ceramic	Sport	7FLC4	1:1	0.05	2535.00	502000	CP-OFDM	0.6	23.70	22.58	1	1	Front	10	0.617	1.294	0.798	0.499	23.5					
Head	NR Band n7	20	QPSK	Ceramic	Metal Loop	7FLC4	1:1	-0.04	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.464	1.211	0.562	0.351	25.6					
Head	NR Band n7	20	QPSK	Ceramic	Metal Loop	7FLC4	1:1	0.02	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.26	50	28	Front	10	0.455	1.271	0.578	0.361	25.5					
Head	NR Band n7	20	QPSK	Ceramic	Metal Links	7FLC4	1:1	0.06	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.437	1.211	0.529	0.331	25.9					
Head	NR Band n7	20	QPSK	Ceramic	Metal Links	7FLC4	1:1	0.11	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.26	50	28	Front	10	0.429	1.271	0.545	0.341	25.8					
Head	NR Band n7	20	QPSK	Titanium	Sport	D44MM	1:1	0.04	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.761	1.211	0.946	0.591	23.4					
Head	NR Band n7	20	QPSK	Titanium	Sport	D44MM	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	24.30	23.43	1	53	Front	10	0.894	1.222	1.092	0.683	22.7					
Head	NR Band n7	20	QPSK	Titanium	Sport	D44MM	1:1	0.05	2560.00	512000	DFT-s-OFDM	0.0	24.30	23.40	1	53	Front	10	0.964	1.230	1.186	0.741	A35	22.4				
Head	NR Band n7	20	QPSK	Titanium	Sport	D44MM	1:1	0.05	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.26	50	28	Front	10	0.788	1.271	1.002	0.626	23.1					
Head	NR Band n7	20	QPSK	Titanium	Sport	D44MM	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	24.30	23.23	50	28	Front	10	0.885	1.279	1.132	0.708	22.6					
Head	NR Band n7	20	QPSK	Titanium	Sport	D44MM	1:1	0.07	2560.00	512000	DFT-s-OFDM	0.0	24.30	23.25	50	28	Front	10	0.917	1.274	1.168	0.730	22.4					
Head	NR Band n7	20	QPSK	Titanium	Sport	D44MM	1:1	-0.00	2535.00	502000	DFT-s-OFDM	0.1	24.20	23.06	100	0	Front	10	0.631	1.300	0.820	0.513	23.9					
Head	NR Band n7	20	QPSK	Titanium	Sport	D44MM	1:1	0.06	2535.00	502000	CP-OFDM	0.6	23.70	22.58	1	1	Front	10	0.611	1.294	0.791	0.484	23.5					
Head	NR Band n7	20	QPSK	Titanium	Metal Loop	D44MM	1:1	0.08	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.544	1.211	0.659	0.412	24.9					
Head	NR Band n7	20	QPSK	Titanium	Metal Loop	D44MM	1:1	0.06	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.36	50	28	Front	10	0.528	1.271	0.798	0.499	24.1					
Head	NR Band n7	20	QPSK	Titanium	Metal Links	D44MM	1:1	0.02	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.47	1	53	Front	10	0.528	1.211	0.639	0.399	25.1					
Head	NR Band n7	20	QPSK	Titanium	Metal Links	D44MM	1:1	0.04	2535.00	502000	DFT-s-OFDM	0.0	24.30	23.26	50	28	Front	10	0.519	1.271	0.660	0.413	24.9					
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																							Head		1.6 W/kg (mW/g)			
Spatial Peak																							Uncontrolled Exposure/General Population			averaged over 1 gram		

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 #	PLimit [dBm]	Overall PLimit [dBm]
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	323VY	1:1	0.13	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.143	1.303	0.186	0.047	36.0		
Extremity	NR Band n7	20	QPSK	Aluminum	Sport	323VY	1:1	0.11	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.145	1.327	0.192	0.048	35.9		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	323VY	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.139	1.303	0.207	0.052	35.5		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Loop	323VY	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.204	1.327	0.271	0.068	34.4		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	323VY	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.218	1.303	0.285	0.071	34.2		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	323VY	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.209	1.327	0.277	0.069	34.3		
Extremity	NR Band n7	20	QPSK	Aluminum	Metal Links	323VY	1:1	-0.05	2535.00	507000	CP-OFDM	1.5	23.70	22.62	1	1	Back	0	0.131	1.282	0.168	0.042	35.0		
Extremity	NR Band n7	20	QPSK	Ceramic	Sport	65UVD	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.132	1.303	0.172	0.043	34.9		
Extremity	NR Band n7	20	QPSK	Ceramic	Sport	65UVD	1:1	0.10	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.077	1.327	0.102	0.036	36.6		
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Loop	65UVD	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.172	1.303	0.224	0.056	35.2		
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Loop	65UVD	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.168	1.327	0.223	0.056	35.2		
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Links	65UVD	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.189	1.303	0.260	0.127	A36	31.7	
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Links	65UVD	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.177	1.327	0.500	0.155	31.7		
Extremity	NR Band n7	20	QPSK	Ceramic	Metal Links	65UVD	1:1	0.03	2535.00	507000	CP-OFDM	1.5	23.70	22.62	1	1	Back	0	0.212	1.282	0.272	0.068	32.9		
Extremity	NR Band n7	20	QPSK	Titanium	Sport	23LR2	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.101	1.303	0.132	0.033	37.5		
Extremity	NR Band n7	20	QPSK	Titanium	Sport	23LR2	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.131	1.327	0.174	0.042	36.3		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	23LR2	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.274	1.303	0.357	0.089	33.2		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	23LR2	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.292	1.327	0.387	0.097	32.8		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Loop	23LR2	1:1	0.07	2535.00	507000	CP-OFDM	1.5	23.70	22.62	1	1	Back	0	0.189	1.282	0.260	0.082	33.3		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	23LR2	1:1	0.13	2535.00	507000	DFT-s-OFDM	0.0	25.20	24.05	1	53	Back	0	0.256	1.303	0.334	0.084	33.5		
Extremity	NR Band n7	20	QPSK	Titanium	Metal Links	23LR2	1:1	0.15	2535.00	507000	DFT-s-OFDM	0.0	25.20	23.97	50	28	Back	0	0.224	1.327	0.297	0.074	34.0		
ANSI/IEEE C63.1-1992 - Safety Limit																			Extremity						
Uncontrolled Exposure/General Population																			4.0 W/kg (mW/g)						
																			averaged over 10 grams						

10.37 NR Band n41 Standalone Head SAR

Table 10-37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Withstand Type	Serial Number	Duty Cycle	Power Dens [dBm]	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 #	Plot Unit	Overall Power [dBm]
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.02	2506.02	501204	DTF+OFDM	0.0	24.30	23.60	1	26	Front	10	0.819	1.175	0.982	0.901	23.1		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.02	2549.49	509898	DTF+OFDM	0.0	24.30	23.52	1	26	Front	10	0.922	1.189	1.000	0.901	22.1		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.05	2520.99	518598	DTF+OFDM	0.0	24.30	23.62	1	26	Front	10	0.944	1.169	1.004	0.901	22.5		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.07	2636.49	527298	DTF+OFDM	0.0	24.30	23.52	1	26	Front	10	0.928	1.197	1.111	0.994	22.4		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.05	2592.99	535998	DTF+OFDM	0.0	24.30	23.43	1	26	Front	10	0.910	1.172	1.184	0.940	22.3		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.15	2678.99	535998	DTF+OFDM	0.0	24.30	23.61	1	26	Front	10	0.935	1.175	1.301	0.988	22.6		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.05	2506.02	501204	DTF+OFDM	0.0	24.30	23.59	25	13	Front	10	0.798	1.178	0.940	0.588	23.2		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.00	2549.49	509898	DTF+OFDM	0.0	24.30	23.57	25	13	Front	10	0.925	1.183	1.094	0.684	22.5		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.08	2592.99	518598	DTF+OFDM	0.0	24.30	23.61	25	13	Front	10	0.902	1.172	1.057	0.661	22.6		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.07	2636.49	527298	DTF+OFDM	0.0	24.30	23.46	25	13	Front	10	0.845	1.191	1.056	0.629	22.8		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.03	2678.99	535998	DTF+OFDM	0.0	24.30	23.45	25	13	Front	10	0.957	1.216	1.164	0.728	22.7		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.01	2592.99	518598	DTF+OFDM	0.2	34.10	23.00	50	0	Front	10	0.862	1.282	1.105	0.691	22.2		
Head	NR Band n41	20	QPSK	Aluminum	Sport	K0204	1:1	0.00	2678.99	535998	CP-OFDM	0.7	23.60	22.86	1	1	Front	10	0.813	1.181	0.968	0.605	22.3		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	K0204	1:1	0.07	2506.02	501204	DTF+OFDM	0.0	24.30	23.60	1	26	Front	10	0.454	1.175	0.533	0.333	25.8		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	K0204	1:1	0.08	2549.49	509898	DTF+OFDM	0.0	24.30	23.51	1	26	Front	10	0.503	1.169	0.605	0.377	25.1		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	K0204	1:1	0.01	2592.99	518598	DTF+OFDM	0.0	24.30	23.45	1	26	Front	10	0.567	1.169	0.663	0.434	24.7		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	K0204	1:1	0.06	2636.49	527298	DTF+OFDM	0.0	24.30	23.52	1	26	Front	10	0.585	1.197	0.976	0.423	24.6		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	K0204	1:1	0.05	2678.99	535998	DTF+OFDM	0.0	24.30	23.61	1	26	Front	10	0.534	1.172	0.626	0.391	24.9		
Head	NR Band n41	20	QPSK	Aluminum	Metal Loop	K0204	1:1	0.02	2592.99	518598	DTF+OFDM	0.0	24.30	23.55	25	13	Front	10	0.498	1.172	0.586	0.365	25.2		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.04	2506.02	501204	DTF+OFDM	0.0	24.30	23.60	1	26	Front	10	0.568	1.175	0.667	0.417	24.6		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.05	2549.49	509898	DTF+OFDM	0.0	24.30	23.61	1	26	Front	10	0.611	1.159	0.726	0.439	24.7		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.04	2592.99	518598	DTF+OFDM	0.0	24.30	23.62	1	26	Front	10	0.699	1.169	0.817	0.511	23.8		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.02	2636.49	527298	DTF+OFDM	0.0	24.30	23.52	1	26	Front	10	0.727	1.197	0.870	0.544	23.5		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.03	2678.99	535998	DTF+OFDM	0.2	24.10	23.00	50	0	Front	10	0.587	1.282	0.753	0.471	23.0		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.03	2506.02	501204	DTF+OFDM	0.0	24.30	23.59	25	13	Front	10	0.574	1.178	0.676	0.423	24.8		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.04	2549.49	509898	DTF+OFDM	0.0	24.30	23.57	25	13	Front	10	0.670	1.183	0.793	0.496	23.9		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.03	2592.99	518598	DTF+OFDM	0.0	24.30	23.62	1	26	Front	10	0.690	1.172	0.690	0.420	24.7		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.00	2636.49	527298	DTF+OFDM	0.0	24.30	23.54	25	13	Front	10	0.691	1.191	0.823	0.514	23.7		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.02	2678.99	535998	DTF+OFDM	0.0	24.30	23.45	25	13	Front	10	0.694	1.216	0.844	0.528	23.6		
Head	NR Band n41	20	QPSK	Aluminum	Metal Links	K0204	1:1	0.03	2592.99	518598	DTF+OFDM	0.2	24.10	23.00	50	0	Front	10	0.587	1.282	0.753	0.471	23.0		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.11	2506.02	501204	DTF+OFDM	0.0	24.30	23.60	1	26	Front	10	0.803	1.175	0.944	0.900	23.1		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.05	2549.49	509898	DTF+OFDM	0.0	24.30	23.61	1	26	Front	10	0.851	1.159	1.023	0.919	22.8		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.08	2592.99	518598	DTF+OFDM	0.0	24.30	23.62	1	26	Front	10	0.875	1.169	1.144	0.935	22.6		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.03	2636.49	527298	DTF+OFDM	0.0	24.30	23.52	1	26	Front	10	0.884	1.197	1.058	0.961	22.6		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.00	2678.99	535998	DTF+OFDM	0.0	24.30	23.45	1	26	Front	10	0.872	1.216	1.086	0.956	22.6		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.04	2506.02	501204	DTF+OFDM	0.0	24.30	23.59	25	13	Front	10	0.804	1.157	0.987	0.902	23.1		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.09	2549.49	509898	DTF+OFDM	0.0	24.30	23.57	25	13	Front	10	0.877	1.183	1.037	0.948	22.7		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.05	2592.99	518598	DTF+OFDM	0.0	24.30	23.62	1	26	Front	10	0.914	1.172	1.053	0.961	22.8		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.07	2636.49	527298	DTF+OFDM	0.0	24.30	23.54	25	13	Front	10	0.848	1.191	1.090	0.931	22.8		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.04	2678.99	535998	DTF+OFDM	0.0	24.30	23.45	25	13	Front	10	0.971	1.216	1.181	0.738	22.2		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.08	2592.99	518598	DTF+OFDM	0.2	24.10	23.00	50	0	Front	10	0.773	1.289	0.961	0.521	23.7		
Head	NR Band n41	20	QPSK	Ceramic	Sport	85V10	1:1	0.02	2592.99	518598	CP-OFDM	0.7	23.60	22.86	1	1	Front	10	0.722	1.191	0.880	0.538	22.8		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	K0204	1:1	0.17	2592.99	518598	DTF+OFDM	0.0	24.30	23.62	1	26	Front	10	0.488	1.159	0.570	0.326	25.3		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	K0204	1:1	0.05	2506.02	501204	DTF+OFDM	0.0	24.30	23.60	1	26	Front	10	0.466	1.178	0.586	0.346	25.3		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	85V10	1:1	0.05	2549.49	509898	DTF+OFDM	0.0	24.30	23.57	25	13	Front	10	0.431	1.183	0.510	0.319	25.8		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	85V10	1:1	0.00	2592.99	518598	DTF+OFDM	0.0	24.30	23.62	1	26	Front	10	0.513	1.173	0.605	0.376	25.1		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	85V10	1:1	0.05	2636.49	527298	DTF+OFDM	0.0	24.30	23.54	25	13	Front	10	0.518	1.191	0.617	0.386	25.0		
Head	NR Band n41	20	QPSK	Ceramic	Metal Loop	85V10	1:1	0.05	2678.99	535998	DTF+OFDM	0.0	24.30	23.45	25	13	Front	10	0.492	1.216	0.598	0.374	25.1		
Head	NR Band n41	20	QPSK	Ceramic	Metal Links	K0204	1:1	0.06	2506.02	501204	DTF+OFDM	0.0	24.30	23.60	1	26	Front	10	0.569	1.175	0.669	0.418	24.6		
Head	NR Band n41	20	QPSK	Ceramic	Metal Links	85V10	1:1	0.02	2549.49	509898	DTF+OFDM	0.0	24.30	23.51	1	26	Front	10	0.494	1.199	0.647	0.404	24.8		
Head	NR Band n41	20	QPSK	Ceramic	Metal Links	85V10	1:1	0.07	2592.99	518598	DTF+OFDM	0.0	24.30	23.62	1	26	Front	10	0.618	1.169	0.722	0.451	24.3		
Head	NR Band n41	20	QPSK	Ceramic	Metal Links	85V10	1:1	0.01	2636.49	527298	DTF+OFDM	0.0	24.30	23.52	1	26	Front	10	0.686	1.197	0.883	0.521	23.7		
Head	NR Band n41	20	QPSK	Ceramic	Metal Links	85V10	1:1	0.08	2678.99	535998	DTF+OFDM	0.0	24.30	23.54	1	26	Front	10	0.671	1.191	0.799	0.499	23.9		
Head	NR Band n41	20	QPSK	Ceramic	Metal Links	85V10	1:1	0.08	2506.02	501204	DTF+OFDM	0.0	24.30	23.60	25	13	Front	10	0.526	1.178	0.600	0.388	25.0		
Head	NR Band n41	20	QPSK	Ceramic	Metal Links	85V10	1:1	0.07	2549.49	509898	DTF+OFDM	0.0	24.30	23.53	25	13	Front	10	0.612	1.183	0.724	0.453	24.3		
Head	NR Band n41	20	QPSK	Ceramic	Metal Links	85V10	1:1	0.05	2592.99	518598	DTF+OFDM	0.0	24.30	23.63											

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 (SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	323VY	1.1	-0.10	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.141	1.211	0.171	0.043		36.4	
Extremity	NR Band n41	20	QPSK	Aluminum	Sport	323VY	1.1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.153	1.210	0.187	0.047		36.0	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loops	323VY	1.1	0.06	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.272	1.211	0.329	0.082		33.5	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loops	323VY	1.1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.270	1.219	0.329	0.082		33.5	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Loops	323VY	1.1	0.02	2592.99	518598	CP-OFDM	1.5	23.70	22.99	1	1	Back	0	0.130	1.178	0.271	0.068		32.9	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	323VY	1.1	0.02	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.139	1.211	0.289	0.072		34.1	
Extremity	NR Band n41	20	QPSK	Aluminum	Metal Links	323VY	1.1	0.03	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.264	1.219	0.322	0.081		33.6	
Extremity	NR Band n41	20	QPSK	Ceramic	Sport	7LFC4	1.1	-0.16	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.249	1.211	0.302	0.076		33.9	
Extremity	NR Band n41	20	QPSK	Ceramic	Sport	7LFC4	1.1	-0.09	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.134	1.219	0.285	0.071		34.2	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Loops	7LFC4	1.1	0.14	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.195	1.211	0.236	0.059		35.0	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Loops	7LFC4	1.1	0.07	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.233	1.219	0.284	0.071		34.2	32.9
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Links	7LFC4	1.1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.249	1.211	0.302	0.076		33.9	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Links	7LFC4	1.1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.134	1.219	0.283	0.066	A38	32.9	
Extremity	NR Band n41	20	QPSK	Ceramic	Metal Links	7LFC4	1.1	0.07	2592.99	518598	CP-OFDM	1.5	23.70	22.99	1	1	Back	0	0.197	1.178	0.232	0.058		33.6	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	X9K76	1.1	0.04	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.147	1.211	0.178	0.045		36.2	
Extremity	NR Band n41	20	QPSK	Titanium	Sport	X9K76	1.1	0.10	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.147	1.219	0.179	0.045		36.2	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loops	X9K76	1.1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.213	1.211	0.258	0.065		34.6	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Loops	X9K76	1.1	0.21	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.158	1.210	0.193	0.048		35.3	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	X9K76	1.1	0.03	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.37	1	26	Back	0	0.182	1.211	0.220	0.055		35.3	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	X9K76	1.1	0.13	2592.99	518598	DFT-s-OFDM	0.0	25.20	24.34	25	13	Back	0	0.237	1.219	0.289	0.072		34.1	
Extremity	NR Band n41	20	QPSK	Titanium	Metal Links	X9K76	1.1	0.02	2592.99	518598	CP-OFDM	1.5	23.70	22.99	1	1	Back	0	0.148	1.178	0.174	0.044		34.8	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT															Extremity 4.0 W/kg (mW/g) averaged over 10 grams										
Uncontrolled Exposure/General Population																									

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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	V9H9K	99.76	-0.01	2412	1	1.0	18.00	17.99	Front	10	0.168	1.002	1.002	0.169	0.106	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	V9H9K	99.76	-0.01	2412	1	1.0	18.00	17.99	Front	10	0.118	1.002	1.002	0.118	0.074	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Aluminum	Metal Links	V9H9K	99.76	0.02	2412	1	1.0	18.00	17.99	Front	10	0.105	1.002	1.002	0.105	0.066	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Sport	79PY2	99.76	-0.00	2412	1	1.0	18.00	17.99	Front	10	0.202	1.002	1.002	0.203	0.127	A39
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Metal Loop	79PY2	99.76	-0.03	2412	1	1.0	18.00	17.99	Front	10	0.141	1.002	1.002	0.142	0.089	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Metal Links	79PY2	99.76	0.01	2412	1	1.0	18.00	17.99	Front	10	0.122	1.002	1.002	0.122	0.076	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Sport	23LR2	99.76	0.02	2412	1	1.0	18.00	17.99	Front	10	0.192	1.002	1.002	0.193	0.121	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	23LR2	99.76	0.05	2412	1	1.0	18.00	17.99	Front	10	0.152	1.002	1.002	0.153	0.096	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Metal Links	23LR2	99.76	0.01	2412	1	1.0	18.00	17.99	Front	10	0.136	1.002	1.002	0.137	0.086	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Head							
Spatial Peak														1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population														averaged over 1 gram							

Table 10-40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Aluminum	Sport	V9H9K	29.30	-0.01	2412	1	1.0	18.00	17.99	Front	10	0.045	1.002	1.024	0.046	0.029	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	V9H9K	29.30	-0.10	2412	1	1.0	18.00	17.99	Front	10	0.031	1.002	1.024	0.032	0.020	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Aluminum	Metal Links	V9H9K	29.30	-0.11	2412	1	1.0	18.00	17.99	Front	10	0.021	1.002	1.024	0.022	0.020	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Sport	79PY2	29.30	0.08	2412	1	1.0	18.00	17.99	Front	10	0.058	1.002	1.024	0.060	0.038	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Metal Loop	79PY2	29.30	0.11	2412	1	1.0	18.00	17.99	Front	10	0.035	1.002	1.024	0.036	0.023	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Metal Links	79PY2	29.30	0.07	2412	1	1.0	18.00	17.99	Front	10	0.032	1.002	1.024	0.033	0.021	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Sport	23LR2	29.30	-0.09	2412	1	1.0	18.00	17.99	Front	10	0.056	1.002	1.024	0.057	0.036	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	23LR2	29.30	-0.10	2412	1	1.0	18.00	17.99	Front	10	0.039	1.002	1.024	0.040	0.025	
Head	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Metal Links	23LR2	29.30	0.05	2412	1	1.0	18.00	17.99	Front	10	0.036	1.002	1.024	0.037	0.023	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head					
Spatial Peak																1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																averaged over 1 gram					

Note: 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 29.30% transmission duty factor due to the software limitation and the cellular antenna was not active.

10.40 2.4 GHz WIFI SISO Standalone Extremity SAR

Table 10-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Aluminum	Sport	V9H9K	99.76	-0.01	2412	1	1.0	18.00	17.99	Back	0	0.018	1.002	1.002	0.018	0.005	
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Aluminum	Metal Loop	V9H9K	99.76	-0.07	2412	1	1.0	18.00	17.99	Back	0	0.030	1.002	1.002	0.030	0.008	
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Aluminum	Metal Links	V9H9K	99.76	-0.03	2412	1	1.0	18.00	17.99	Back	0	0.044	1.002	1.002	0.044	0.011	A40
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Sport	79PY2	99.76	0.01	2412	1	1.0	18.00	17.99	Back	0	0.019	1.002	1.002	0.019	0.005	
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Metal Loop	79PY2	99.76	-0.20	2412	1	1.0	18.00	17.99	Back	0	0.018	1.002	1.002	0.018	0.005	
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Ceramic	Metal Links	79PY2	99.76	-0.10	2412	1	1.0	18.00	17.99	Back	0	0.022	1.002	1.002	0.022	0.006	
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Sport	23LR2	99.76	-0.13	2412	1	1.0	18.00	17.99	Back	0	0.023	1.002	1.002	0.023	0.006	
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Metal Loop	23LR2	99.76	0.06	2412	1	1.0	18.00	17.99	Back	0	0.037	1.002	1.002	0.037	0.009	
Extremity	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	Titanium	Metal Links	23LR2	99.76	-0.14	2412	1	1.0	18.00	17.99	Back	0	0.032	1.002	1.002	0.032	0.008	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Extremity						
Spatial Peak															4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population															averaged over 10 grams						

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10.41 5 GHz WIFI SISO Standalone Head SAR

Table 10-42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured $\mu\text{g SAR}$ [mW/kg]	Power Scaling Factor	Duty Cycle Factor	Reported $\mu\text{g SAR}$ [mW/kg]	Exposure Ratio (Eq SAR)	Plot #
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	M9M9J	98.67	0.08	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.100	1.349	1.013	0.137	0.085	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	M9M9J	98.67	0.07	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.121	1.225	1.013	0.150	0.094	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	M9M9J	98.67	0.09	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.128	1.262	1.013	0.164	0.103	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	M9M9J	98.67	0.02	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.092	1.349	1.013	0.126	0.079	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	M9M9J	98.67	0.08	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.118	1.225	1.013	0.146	0.091	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	M9M9J	98.67	0.02	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.126	1.262	1.013	0.161	0.101	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	M9M9J	98.67	0.03	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.092	1.349	1.013	0.126	0.079	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	M9M9J	98.67	0.06	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.112	1.225	1.013	0.139	0.087	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	M9M9J	98.67	0.02	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.112	1.262	1.013	0.143	0.089	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	TGHLW	98.67	0.04	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.120	1.349	1.013	0.164	0.103	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	TGHLW	98.67	-0.14	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.113	1.225	1.013	0.140	0.088	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	TGHLW	98.67	0.09	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.127	1.262	1.013	0.175	0.078	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TGHLW	98.67	0.04	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.118	1.349	1.013	0.161	0.101	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TGHLW	98.67	0.13	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.098	1.225	1.013	0.122	0.076	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TGHLW	98.67	0.03	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.103	1.262	1.013	0.132	0.083	A41
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TGHLW	98.67	-0.13	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.148	1.349	1.013	0.202	0.126	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TGHLW	98.67	-0.19	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.122	1.262	1.013	0.151	0.094	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TGHLW	98.67	0.07	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.105	1.262	1.013	0.134	0.084	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	98.67	0.07	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.080	1.349	1.013	0.099	0.068	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	98.67	0.02	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.107	1.225	1.013	0.133	0.083	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	98.67	0.07	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.098	1.262	1.013	0.125	0.078	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	98.67	0.08	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.063	1.349	1.013	0.093	0.058	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	98.67	0.01	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.103	1.225	1.013	0.128	0.080	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	98.67	0.05	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.102	1.262	1.013	0.130	0.081	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	98.67	0.04	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.078	1.349	1.013	0.107	0.067	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	98.67	-0.17	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.105	1.225	1.013	0.130	0.081	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	98.67	0.02	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.088	1.262	1.013	0.112	0.070	
ANSI/IEEE C95.1-1982 SAFETY LIMIT																						
Spatial Peak																	1.6 W/kg (mW/kg)					
Uncontrolled Exposure/General Population																	averaged over 1 gram					

Table 10-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power [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 Rate [1g SAR]	Plot #
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	MM9MJ	29.93	0.04	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.034	1.349	1.002	0.046	0.029	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	MM9MJ	29.93	0.08	5320	144	U-NII-2C	6.0	17.00	15.70	Front	10	0.027	1.222	1.002	0.093	0.021	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	MM9MJ	29.93	0.05	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.027	1.262	1.002	0.034	0.021	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	MM9MJ	29.93	0.08	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.034	1.349	1.002	0.046	0.029	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	MM9MJ	29.93	0.05	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.024	1.225	1.002	0.029	0.018	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	MM9MJ	29.93	0.01	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.025	1.262	1.002	0.032	0.020	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	MM9MJ	29.93	0.09	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.031	1.349	1.002	0.043	0.027	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	MM9MJ	29.93	0.09	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.027	1.225	1.002	0.033	0.021	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	MM9MJ	29.93	0.06	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.027	1.262	1.002	0.034	0.021	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	TGHLW	29.93	0.07	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.022	1.349	1.002	0.030	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	TGHLW	29.93	0.07	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.029	1.225	1.002	0.036	0.023	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TGHLW	29.93	0.08	5320	165	U-NII-3	6.0	17.00	15.99	Front	10	0.025	1.262	1.002	0.033	0.021	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TGHLW	29.93	0.07	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.028	1.225	1.002	0.034	0.021	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TGHLW	29.93	0.03	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.025	1.262	1.002	0.032	0.020	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TGHLW	29.93	0.05	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.035	1.349	1.002	0.047	0.029	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TGHLW	29.93	0.09	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.026	1.225	1.002	0.032	0.020	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TGHLW	29.93	0.07	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.025	1.262	1.002	0.032	0.020	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	29.93	0.09	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.027	1.349	1.002	0.023	0.014	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	29.93	0.08	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.024	1.225	1.002	0.029	0.018	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	29.93	0.03	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.024	1.262	1.002	0.030	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	29.93	0.03	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.033	1.349	1.002	0.038	0.011	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	29.93	0.05	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.026	1.225	1.002	0.031	0.019	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	29.93	0.07	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.025	1.262	1.002	0.031	0.014	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	29.93	0.02	5320	64	U-NII-2A	6.0	17.00	15.70	Front	10	0.037	1.349	1.002	0.023	0.014	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	29.93	0.05	5720	144	U-NII-2C	6.0	17.00	16.12	Front	10	0.029	1.225	1.002	0.036	0.023	
Head	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	29.93	0.08	5825	165	U-NII-3	6.0	17.00	15.99	Front	10	0.023	1.262	1.002	0.029	0.018	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																	Head 1.6 W/kg (avg/1g) averaged over 16mm					
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 were tested at 29.93% transmission duty factor due to the software limitation and the cellular antenna was not active.

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Document S/N: 1C2604100030-19.BCG-R1		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 73 of 85

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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 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	M9M9J	98.67	0.07	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.011	1.349	1.013	0.015	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	M9M9J	98.67	0.01	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.009	1.225	1.013	0.011	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Sport	M9M9J	98.67	0.02	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.012	1.262	1.013	0.015	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	M9M9J	98.67	0.01	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.014	1.349	1.013	0.019	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	M9M9J	98.67	0.04	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.005	1.225	1.013	0.006	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Loop	M9M9J	98.67	0.08	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.009	1.262	1.013	0.012	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	M9M9J	98.67	0.08	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.009	1.349	1.013	0.012	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	M9M9J	98.67	0.03	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.006	1.225	1.013	0.007	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Aluminum	Metal Links	M9M9J	98.67	0.08	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.006	1.262	1.013	0.008	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	TQHLLW	98.67	0.04	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.012	1.349	1.013	0.016	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Sport	TQHLLW	98.67	0.02	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.058	1.225	1.013	0.072	0.018	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TQHLLW	98.67	0.09	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.061	1.262	1.013	0.081	0.020	A42
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TQHLLW	98.67	0.01	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.023	1.349	1.013	0.031	0.008	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TQHLLW	98.67	0.06	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.025	1.225	1.013	0.031	0.008	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Loop	TQHLLW	98.67	0.05	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.022	1.262	1.013	0.028	0.007	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TQHLLW	98.67	0.08	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.020	1.349	1.013	0.027	0.007	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TQHLLW	98.67	0.08	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.053	1.225	1.013	0.066	0.017	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Ceramic	Metal Links	TQHLLW	98.67	0.03	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.041	1.262	1.013	0.056	0.015	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	98.67	0.02	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.008	1.349	1.013	0.011	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	98.67	0.01	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.014	1.225	1.013	0.017	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Sport	X9X76	98.67	0.06	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.014	1.262	1.013	0.018	0.005	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	98.67	0.09	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.005	1.349	1.013	0.007	0.002	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	98.67	0.06	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.014	1.225	1.013	0.017	0.004	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Loop	X9X76	98.67	0.05	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.020	1.262	1.013	0.026	0.007	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	98.67	-0.12	5320	64	U-NII-2A	6.0	17.00	15.70	Back	0	0.009	1.349	1.013	0.012	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	98.67	0.11	5720	144	U-NII-2C	6.0	17.00	16.12	Back	0	0.008	1.225	1.013	0.010	0.003	
Extremity	5 GHz WiFi / IEEE 802.11a	20	OFDM	Titanium	Metal Links	X9X76	98.67	0.05	5825	165	U-NII-3	6.0	17.00	15.99	Back	0	0.014	1.262	1.013	0.018	0.005	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Extremity 4.0 W/kg (mW/g) averaged over 10 grams							
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	V9H9K	100.00	0.03	2480	78	1	16.50	16.32	Front	10	0.156	1.042	1.000	0.163	0.102	
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Loop	V9H9K	100.00	-0.04	2480	78	1	16.50	16.32	Front	10	0.095	1.042	1.000	0.099	0.062	
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Links	V9H9K	100.00	-0.03	2480	78	1	16.50	16.32	Front	10	0.085	1.042	1.000	0.089	0.056	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Sport	79PY2	100.00	0.00	2480	78	1	16.50	16.32	Front	10	0.173	1.042	1.000	0.180	0.113	A43
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Loop	79PY2	100.00	-0.01	2480	78	1	16.50	16.32	Front	10	0.126	1.042	1.000	0.131	0.082	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Links	79PY2	100.00	0.00	2480	78	1	16.50	16.32	Front	10	0.112	1.042	1.000	0.117	0.073	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Sport	23LR2	100.00	0.01	2480	78	1	16.50	16.32	Front	10	0.151	1.042	1.000	0.157	0.098	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Metal Loop	23LR2	100.00	0.04	2480	78	1	16.50	16.32	Front	10	0.117	1.042	1.000	0.122	0.076	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Metal Links	23LR2	100.00	0.01	2480	78	1	16.50	16.32	Front	10	0.103	1.042	1.000	0.107	0.067	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head					
Spatial Peak															1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population															averaged over 1 gram					

Table 10-46

Exposure	Band / Mode	Service / Modulation	Housing Type	Wristband Type	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Sport	V9H9K	100.00	-0.04	2402	0	1	13.00	12.11	Front	10	0.040	1.227	1.000	0.049	0.031	
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Loop	V9H9K	100.00	0.12	2402	0	1	13.00	12.11	Front	10	0.029	1.227	1.000	0.036	0.023	
Head	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Links	V9H9K	100.00	-0.10	2402	0	1	13.00	12.11	Front	10	0.028	1.227	1.000	0.034	0.021	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Sport	79PY2	100.00	0.06	2402	0	1	13.00	12.11	Front	10	0.055	1.227	1.000	0.067	0.042	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Loop	79PY2	100.00	0.02	2402	0	1	13.00	12.11	Front	10	0.034	1.227	1.000	0.042	0.026	
Head	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Links	79PY2	100.00	-0.01	2402	0	1	13.00	12.11	Front	10	0.033	1.227	1.000	0.040	0.025	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Sport	23LR2	100.00	-0.04	2402	0	1	13.00	12.11	Front	10	0.053	1.227	1.000	0.065	0.041	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Metal Loop	23LR2	100.00	-0.04	2402	0	1	13.00	12.11	Front	10	0.037	1.227	1.000	0.045	0.028	
Head	2.4 GHz Bluetooth	GFSK	Titanium	Metal Links	23LR2	100.00	0.08	2402	0	1	13.00	12.11	Front	10	0.034	1.227	1.000	0.042	0.026	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head 1.6 W/kg (mW/g) averaged over 1 gram					
Spatial Peak																				
Uncontrolled Exposure/General Population																				

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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	V9H9K	100.00	-0.07	2480	78	1	16.50	16.32	Back	0	0.013	1.042	1.000	0.014	0.004	
Extremity	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Loop	V9H9K	100.00	-0.08	2480	78	1	16.50	16.32	Back	0	0.013	1.042	1.000	0.014	0.004	
Extremity	2.4 GHz Bluetooth	GFSK	Aluminum	Metal Links	V9H9K	100.00	-0.09	2480	78	1	16.50	16.32	Back	0	0.024	1.042	1.000	0.025	0.006	
Extremity	2.4 GHz Bluetooth	GFSK	Ceramic	Sport	79PY2	100.00	-0.02	2480	78	1	16.50	16.32	Back	0	0.015	1.042	1.000	0.016	0.004	
Extremity	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Loop	79PY2	100.00	-0.03	2480	78	1	16.50	16.32	Back	0	0.020	1.042	1.000	0.021	0.005	
Extremity	2.4 GHz Bluetooth	GFSK	Ceramic	Metal Links	79PY2	100.00	-0.13	2480	78	1	16.50	16.32	Back	0	0.018	1.042	1.000	0.019	0.005	
Extremity	2.4 GHz Bluetooth	GFSK	Titanium	Sport	23LR2	100.00	0.00	2480	78	1	16.50	16.32	Back	0	0.018	1.042	1.000	0.019	0.005	
Extremity	2.4 GHz Bluetooth	GFSK	Titanium	Metal Loop	23LR2	100.00	0.05	2480	78	1	16.50	16.32	Back	0	0.017	1.042	1.000	0.018	0.005	
Extremity	2.4 GHz Bluetooth	GFSK	Titanium	Metal Links	23LR2	100.00	-0.17	2480	78	1	16.50	16.32	Back	0	0.031	1.042	1.000	0.032	0.008	A44
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Extremity							
Spatial Peak													4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population													averaged over 10 grams							

10.45 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	2H23V	8.84	0.08	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Loop	2H23V	8.84	-0.09	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Links	2H23V	8.84	-0.06	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Ceramic	Sport	6H9WK	8.84	0.02	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Ceramic	Metal Loop	6H9WK	8.84	0.02	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Ceramic	Metal Links	6H9WK	8.84	0.02	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	A45
Head	802.15.4 ab-NB	O-QPSK	Titanium	Sport	YTFJD	8.84	0.06	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Metal Loop	YTFJD	8.84	0.01	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	
Head	802.15.4 ab-NB	O-QPSK	Titanium	Metal Links	YTFJD	8.84	0.05	5786.25	Mid	1	16.00	15.99	Front	10	0.000	1.002	1.007	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak																Head				
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g) averaged over 1 gram				

Note: The reported SAR was scaled to the 8.9% transmission duty factor to determine compliance since the maximum duty factor for the device is 8.9% per the manufacturer.

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	2H23V	8.84	0.10	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Loop	2H23V	8.84	0.01	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Aluminum	Metal Links	2H23V	8.84	0.05	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Ceramic	Sport	6H9WK	8.84	0.01	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Ceramic	Metal Loop	6H9WK	8.84	0.07	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	A46
Extremity	802.15.4 ab-NB	O-QPSK	Ceramic	Metal Links	6H9WK	8.84	0.03	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Sport	YTFJD	8.84	0.04	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Metal Loop	YTFJD	8.84	0.09	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	
Extremity	802.15.4 ab-NB	O-QPSK	Titanium	Metal Links	YTFJD	8.84	0.04	5786.25	Mid	1	16.00	15.99	Back	0	0.000	1.002	1.007	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak														Extremity 4.0 W/kg (mW/g) averaged over 10 grams						
Uncontrolled Exposure/General Population																				

Note: The reported SAR was scaled to the 8.9% transmission duty factor to determine compliance since the maximum duty factor for the device is 8.9% per the manufacturer.

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10.47 NFC Standalone Extremity SAR

Table 10-50

Exposure	Band / Mode	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	Aluminum	Sport	P9TLJ	0.03	13.56	Back	0	0.000	0.000	
Extremity	NFC	Aluminum	Metal Loop	P9TLJ	0.08	13.56	Back	0	0.000	0.000	
Extremity	NFC	Aluminum	Metal Links	P9TLJ	0.07	13.56	Back	0	0.000	0.000	
Extremity	NFC	Ceramic	Sport	65JVD	0.07	13.56	Back	0	0.000	0.000	
Extremity	NFC	Ceramic	Metal Loop	65JVD	0.06	13.56	Back	0	0.000	0.000	
Extremity	NFC	Ceramic	Metal Links	65JVD	0.06	13.56	Back	0	0.000	0.000	A47
Extremity	NFC	Titanium	Sport	K9YTQ	0.01	13.56	Back	0	0.000	0.000	
Extremity	NFC	Titanium	Metal Loop	K9YTQ	0.08	13.56	Back	0	0.000	0.000	
Extremity	NFC	Titanium	Metal Links	K9YTQ	0.05	13.56	Back	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 10 grams				

10.48 SAR Test Notes

General Notes:

- 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.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 11 for variability analysis.
- 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.
- 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.
- The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
- Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.

LTE Notes:

- 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.
- 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.
- 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).

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

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

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

Table 11-1

HEAD VARIABILITY RESULTS										
Band	FREQUENCY		Mode	Service	Ant	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)	
2450	2510	20850	LTE Band 7, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	Ant FCM	Front	10 mm	1.090	1.070	1.02
2600	2679.99	535998	NR Band n41, 20 MHz Bandwidth	QPSK, 1 RB, 26 RB Offset	Ant FCM	Front	10 mm	1.010	0.939	1.08
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	11/12/2025	Annual	11/12/2026	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	3/23/2026	Annual	3/23/2027	MY45093078
Agilent	N5182A	MWG Vector Signal Generator	4/13/2026	Annual	4/13/2027	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MY40003841
Agilent	8753ES	S-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	GB46174064
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	4/6/2026	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
Insize	1108-150	Insize - Digital Caliper	1/7/2027	Annual	1/7/2027	1410255640
Anritsu	MA24106A	USB Power Sensor	2/20/2026	Annual	2/20/2027	1520601
Anritsu	MA24106A	USB Power Sensor	12/12/2025	Annual	12/12/2026	1344554
Mini-Circuits	PWR-4GH5	9-KHz 4000MHz USB Power Sensor	1/28/2026	Annual	1/28/2027	11710030062
Mini-Circuits	TRQ-516-08	Torque Wrench	12/3/2025	Annual	12/3/2026	MC-1907
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	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-3+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	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	CLA-13	13 MHz SAR Dipole	11/7/2025	Annual	11/7/2026	1004
SPEAG	D750V3	750 MHz SAR Dipole	11/11/2025	Annual	11/11/2026	1094
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	404040
SPEAG	D835V2	835 MHz SAR Dipole	11/11/2025	Annual	11/11/2026	44108
SPEAG	D1750V2	1750 MHz SAR Dipole	11/6/2025	Annual	11/6/2026	1040
SPEAG	D1750V2	1750 MHz SAR Dipole	2/26/2025	Biennial	2/26/2027	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	9/7/2023	Triennial	9/7/2026	5d181
SPEAG	D2450V2	2450 MHz SAR Dipole	11/10/2025	Annual	11/10/2026	855
SPEAG	D2450V2	2450 MHz SAR Dipole	10/23/2024	Biennial	10/23/2026	921
SPEAG	D2600V2	2600 MHz SAR Dipole	11/10/2025	Annual	11/10/2026	1068
SPEAG	D2600V2	2600 MHz SAR Dipole	9/12/2023	Triennial	9/12/2026	1069
SPEAG	D5GHzV2	5 GHz SAR Dipole	8/6/2025	Annual	8/6/2026	1123
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/8/2024	Biennial	11/8/2026	1066
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2026	Annual	2/6/2027	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1684
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2026	Annual	4/13/2027	501
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	1/12/2026	Annual	1/12/2027	1465
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	8/6/2025	Annual	8/6/2026	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/3/2025	Annual	12/3/2026	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/8/2025	Annual	8/8/2026	1681
SPEAG	EX3DV4	SAR Probe	9/15/2025	Annual	9/15/2026	7782
SPEAG	EX3DV4	SAR Probe	2/12/2026	Annual	2/12/2027	7427
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	9/12/2025	Annual	9/12/2026	7639
SPEAG	EX3DV4	SAR Probe	10/10/2025	Annual	10/10/2026	3746
SPEAG	EX3DV4	SAR Probe	2/12/2026	Annual	2/12/2027	7499
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	8/11/2025	Annual	8/11/2026	7668
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	$u(x_i) = a(x_i)/q_i$	ci (1g)	ci (10g)	$u(y) = cixu(x_i) 1g (\pm \%)$	$u(y) = cixu(x_i) 10g (\pm \%)$	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(Te)	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(e', 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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