



SAR EVALUATION REPORT

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

Date of Testing:
06/18/2021 – 08/19/2021
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C2106070043-22.BCG (Rev 1)

FCC ID: **BCG-A2475**

APPLICANT: **APPLE, INC.**

DUT Type: Watch
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A2475

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Head (W/kg)	10g Extremity (W/kg)
PCT	UMTS 850	826.40 - 846.60 MHz	< 0.1	0.11
PCT	UMTS 1750	1712.4 - 1752.6 MHz	0.25	0.20
PCT	UMTS 1900	1852.4 - 1907.6 MHz	0.50	0.30
PCT	LTE Band 12	699.7 - 715.3 MHz	< 0.1	0.10
PCT	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A
PCT	LTE Band 13	779.5 - 784.5 MHz	< 0.1	0.21
PCT	LTE Band 14	790.5 - 795.5 MHz	< 0.1	0.33
PCT	LTE Band 26 (Cell)	814.7 - 848.3 MHz	< 0.1	0.14
PCT	LTE Band 5 (Cell)	824.7 - 848.3 MHz	< 0.1	0.14
PCT	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.37	0.16
PCT	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A
PCT	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	0.48	0.23
PCT	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A
PCT	LTE Band 7	2502.5 - 2567.5 MHz	1.11	1.08
PCT	LTE Band 41	2498.5 - 2687.5 MHz	0.47	0.86
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.34	0.31
NII	U-NII-1	5180 - 5240 MHz	N/A	N/A
NII	U-NII-2A	5260 - 5320 MHz	< 0.1	< 0.1
NII	U-NII-2C	5500 - 5720 MHz	< 0.1	< 0.1
NII	U-NII-3	5745 - 5825 MHz	< 0.1	< 0.1
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.12	0.10
Simultaneous SAR per KDB 690783 D01v01r03:			1.45	1.39

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

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

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


Randy Ortanez
President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 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
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
UWB	Data	6489.6 - 7987.2 MHz
NFC	Data	13.56 MHz

1.2 Power Reduction for SAR

There is no power reduction used for any band/mode implemented in this device for SAR purposes.

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1.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

1.3.1 Summary Maximum and Nominal Conducted Powers – UMTS Mode

Mode/Band		Modulated Average Output Power (in dBm)		
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6
UMTS B5 (850 MHz)	Max allowed power	25	25	24
	Nominal	24	24	23
UMTS B4 (1750 MHz)	Max allowed power	24	24	23
	Nominal	23	23	22
UMTS B2 (1900 MHz)	Max allowed power	24	24	23
	Nominal	23	23	22

1.3.2 Summary Maximum and Nominal Conducted Powers – LTE Mode

Mode / Band		Modulated Average Output Power (in dBm)
LTE FDD Band 12	Max allowed power	25.5
	Nominal	24.5
LTE FDD Band 17	Max allowed power	25.5
	Nominal	24.5
LTE FDD Band 13	Max allowed power	25.5
	Nominal	24.5
LTE FDD Band 14	Max allowed power	25.5
	Nominal	24.5
LTE FDD Band 26 (Cell)	Max allowed power	25.5
	Nominal	24.5
LTE FDD Band 5 (Cell)	Max allowed power	25.5
	Nominal	24.5
LTE FDD Band 66 (AWS)	Max allowed power	24.5
	Nominal	23.5
LTE FDD Band 4 (AWS)	Max allowed power	24.5
	Nominal	23.5
LTE FDD Band 25 (PCS)	Max allowed power	24.5
	Nominal	23.5
LTE FDD Band 2 (PCS)	Max allowed power	24.5
	Nominal	23.5
LTE FDD Band 7	Max allowed power	23.5
	Nominal	22.5
LTE TDD Band 41	Max allowed power	23.5
	Nominal	22.5

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1.3.3 Summary Maximum and Nominal Conducted Powers – WiFi Mode

Mode/ Band		Channel	IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)	
			Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Modulated Average - Single Tx Chain (dBm)	20 MHz Bandwidth	1	19.00	18.00	17.00	16.00	17.00	16.00
		2	19.00	18.00	18.50	17.50	18.50	17.50
		3	19.00	18.00	18.50	17.50	18.50	17.50
		4	19.00	18.00	18.50	17.50	18.50	17.50
		5	19.00	18.00	18.50	17.50	18.50	17.50
		6	19.00	18.00	18.50	17.50	18.50	17.50
		7	19.00	18.00	18.50	17.50	18.50	17.50
		8	19.00	18.00	18.50	17.50	18.50	17.50
		9	19.00	18.00	18.50	17.50	18.50	17.50
		10	19.00	18.00	18.00	17.00	18.00	17.00
		11	19.00	18.00	16.50	15.50	16.50	15.50
		12	18.00	17.00	15.50	14.50	15.50	14.50
		13	17.00	16.00	4.50	3.50	4.50	3.50

Mode/ Band		Channel	IEEE 802.11a (5 GHz)		IEEE 802.11n (5 GHz)	
			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	14.00	13.00	14.00	13.00
		144	17.00	16.00	17.00	16.00
		149	17.00	16.00	17.00	16.00
		153	17.00	16.00	17.00	16.00
		157	17.00	16.00	17.00	16.00
		161	17.00	16.00	17.00	16.00
		165	17.00	16.00	17.00	16.00

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1.3.4 Summary Maximum and Nominal Conducted Powers – Bluetooth Mode

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

1.4 DUT Antenna Locations

A diagram showing the location of the device antennas can be found in Appendix E.

1.5 Near Field Communications (NFC) Antenna

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

1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, 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 D01v06 4.3.2 procedures.

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Table 1-1
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Extremity
1	UMTS + 2.4 GHz WI-FI	Yes	Yes
2	UMTS + 5 GHz WI-FI	Yes	Yes
3	UMTS + 2.4 GHz Bluetooth	Yes	Yes
4	UMTS + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes	Yes
5	LTE + 2.4 GHz WI-FI	Yes	Yes
6	LTE + 5 GHz WI-FI	Yes	Yes
7	LTE + 2.4 GHz Bluetooth	Yes	Yes
8	LTE + 2.4 GHz Bluetooth + 5 GHz WI-FI	Yes	Yes
9	2.4 GHz Bluetooth + 5 GHz WI-FI	Yes	Yes

1. 2.4 GHz WLAN and 2.4 GHz Bluetooth cannot transmit simultaneously.
2. 2.4 GHz WLAN and 5 GHz WLAN share the same antenna path and cannot transmit simultaneously.
3. All licensed modes cannot transmit simultaneously.
4. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN scenario.
5. This device supports VoLTE and VoWIFI.

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

This device supports channel 1-13 for 2.4 GHz WLAN. However, since channels 12 and 13 have equal or less maximum output power, 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.

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(B) Licensed Transmitter(s)

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

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 is limited to 27 RB on the uplink for 16QAM modulation. Additional measurements were evaluated to support SAR test exclusion for 16 QAM as described in Section 7.5.4.

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

1.8 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r04 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance, Wrist-worn Device Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- IEEE 1528-2013

1.9 Device Serial Numbers

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

1.10 Device Housing Types and Wristband Types

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

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LTE Information					
Form Factor	Watch				
Frequency Range of each LTE transmission band	LTE Band 12 (698.7 - 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)				
Channel Bandwidths	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 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				
Channel Numbers and Frequencies (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				
	Low	Low-Mid	Mid	Mid-High	High
	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)	
Channel Numbers and Frequencies (MHz)	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)	
Channel Numbers and Frequencies (MHz)	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)	
Channel Numbers and Frequencies (MHz)	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)	
Channel Numbers and Frequencies (MHz)	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)	
Channel Numbers and Frequencies (MHz)	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)
	LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
	LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
	LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
	UE Category	1			
	Modulations Supported in UL	QPSK, 16QAM			
	LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES			
	A-MPR (Additional MPR) disabled for SAR Testing?	YES			
	LTE Additional Information	This device does not support full CA features on 3GPP Release 12. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 12 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eCIC, WIFI Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.			

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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:

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.

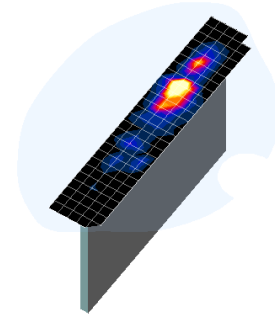


Figure 4-1
Sample SAR Area
Scan

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) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	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 body 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.

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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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 D01v06, 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 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

7.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

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7.4.2 Head SAR Measurements

SAR for head exposure configurations is measured using 12.2 kbps RMC with TPC bits configured to all “1s”. SAR in AMR configurations is not required when the maximum average output of each RF channel for 12.2 kbps AMR is less than 0.25 dB higher than that measured in 12.2 kbps RMC. Otherwise, SAR is measured on the maximum output channel in 12.2 AMR with a 3.4 kbps SRB (signaling radio bearer) using the exposure configuration that resulted in the highest SAR for that RF channel in the 12.2 kbps RMC mode.

7.4.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

7.4.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

7.4.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

7.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure 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).

7.5.1 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.

7.5.2 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.

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7.5.3 A-MPR

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

7.5.4 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 highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- 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 and < 2.0 W/kg for 10g SAR..
- 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 $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg for 1g SAR and < 3.625 W/kg for 10g SAR.
- e. This device can only operate with 16QAM on the uplink with less than or equal to 27 RB. For 16 QAM configurations with 10 MHz, 15 MHz, and 20 MHz bandwidths, LTE powers for RB size or 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 16 QAM modulations to support comparison and SAR test exclusion per section 5.2.4 and 5.3.

7.5.5 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.

7.6 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.

7.6.1 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

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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 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

7.6.2 U-NII-1 and U-NII-2A

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

7.6.3 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.

7.6.4 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.

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7.6.5 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.

7.6.6 Initial Test Configuration Procedure

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

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.6.5).

7.6.7 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.

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8 RF CONDUCTED POWERS

8.1 UMTS Conducted Powers

Table 8-1
Maximum Conducted Powers

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.93	24.05	23.82	22.98	23.04	22.80	23.02	23.04	22.78	-
99		12.2 kbps AMR	24.12	24.10	23.83	23.06	23.00	22.77	22.99	23.13	22.90	-
6	HSDPA	Subtest 1	24.28	24.59	24.30	22.84	22.76	22.86	23.06	23.22	23.33	0
6		Subtest 2	23.54	23.46	23.29	22.19	22.22	22.24	22.12	22.35	22.21	0
6		Subtest 3	23.12	23.18	22.78	21.77	21.71	21.51	21.92	22.24	21.68	0.5
6		Subtest 4	22.82	22.92	22.57	21.57	21.62	21.52	21.66	21.98	21.58	0.5
6	HSUPA	Subtest 1	23.03	23.13	22.80	22.23	22.20	22.02	22.48	22.60	22.39	0
6		Subtest 2	21.23	21.32	21.02	19.91	19.92	19.71	20.26	20.41	20.15	2
6		Subtest 3	22.26	22.34	22.01	20.75	20.70	20.47	21.02	21.12	20.91	1
6		Subtest 4	21.51	21.62	21.30	20.23	20.19	19.98	20.40	20.67	20.39	2
6		Subtest 5	23.26	23.34	23.06	22.26	22.18	22.00	22.49	22.59	22.34	0

This device does not support DC-HSDPA.

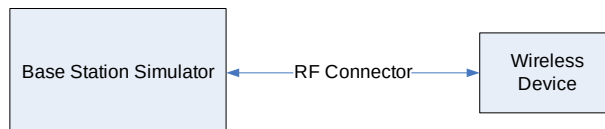


Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

8.2.1 LTE Band 12

Table 8-2
LTE Band 12 Conducted Powers – 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	24.57	0	0
	1	25	24.75		0
	1	49	24.52		0
	25	0	23.86	0-1	1
	25	12	23.83		1
	25	25	23.71		1
	50	0	23.85	0-1	1
	15	0	23.77		1
	15	17	23.86		1
	15	35	23.65	0-1	1
	27	0	23.83		1
	27	12	23.81		1
16QAM	27	23	23.67	0-1	1
	1	0	23.58		1
	1	25	23.64		1
	1	49	23.44	0-2	1
	25	0	22.25		2
	25	12	22.29		2
	25	25	22.13	0-2	2
	15	0	22.21		2
	15	17	22.27		2
	15	35	22.09		2
	27	0	22.28		2
	27	12	22.27		2
	27	23	22.17		2

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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LTE Band 13

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

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.69	0	0
	1	25	24.45		0
	1	49	24.77		0
	25	0	23.88	0-1	1
	25	12	23.67		1
	25	25	23.69		1
	50	0	23.80	0-1	1
	15	0	23.78		1
	15	17	23.64		1
	15	35	23.81	0-1	1
	27	0	23.81		1
	27	12	23.68		1
	27	23	23.69		1
16QAM	1	0	23.64	0-1	1
	1	25	23.44		1
	1	49	23.67		1
	25	0	22.45	0-2	2
	25	12	22.26		2
	25	25	22.20		2
	15	0	22.32	0-2	2
	15	17	22.15		2
	15	35	22.30		2
	27	0	22.30		2
	27	12	22.19		2
	27	23	22.15		2

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LTE Band 14

Table 8-4
LTE Band 14 Conducted Powers – 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	23.94	0	0
	1	25	24.36		0
	1	49	24.10		0
	25	0	23.10	0-1	1
	25	12	23.31		1
	25	25	23.21		1
	50	0	23.30	0-1	1
	15	0	23.02		1
	15	17	23.21		1
	15	35	23.19	0-1	1
	27	0	23.06		1
	27	12	23.23		1
16QAM	27	23	23.21	0-1	1
	1	0	23.23		1
	1	25	23.50		1
	1	49	23.20	0-2	1
	25	0	22.01		2
	25	12	22.14		2
	25	25	22.21	0-2	2
	15	0	22.00		2
	15	17	22.17		2
	15	35	22.23		2
	27	0	22.02		2
	27	12	22.14		2
	27	23	22.24		2

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LTE Band 26

Table 8-5
LTE Band 26 Conducted Powers – 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	24.00	24.24	24.29	0	0
	1	25	24.24	24.23	24.10		0
	1	49	24.19	24.30	24.16		0
	25	0	23.22	23.23	23.31	0-1	1
	25	12	23.25	23.32	23.19		1
	25	25	23.35	23.37	23.14		1
	50	0	23.28	23.29	23.20	0-1	1
	15	0	23.13	23.20	23.32		1
	15	17	23.25	23.25	23.20		1
	15	35	23.28	23.28	23.19	0-1	1
	27	0	23.24	23.17	23.31		1
	27	12	23.34	23.25	23.19		1
27	23	23.37	23.29	23.16	0-1	1	
1	0	23.18	23.47	23.59		1	
16QAM	1	25	23.19	23.33	23.48	0-1	1
	1	49	23.28	23.39	23.44		1
	25	0	22.08	21.98	22.10		2
	25	12	22.07	22.14	22.03	0-2	2
	25	25	22.16	22.09	21.95		2
	15	0	21.93	22.09	22.14		2
	15	17	22.12	22.08	22.02	0-2	2
	15	35	22.06	22.21	21.96		2
	27	0	22.02	22.00	22.05		2
	27	12	22.15	22.03	22.00		2
	27	23	22.17	22.11	21.92		2

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LTE Band 5

Table 8-6
LTE Band 5 Conducted Powers – 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	24.20	0	0
	1	25	24.48		0
	1	49	24.60		0
	25	0	23.52	0-1	1
	25	12	23.59		1
	25	25	23.70		1
	50	0	23.68	0-1	1
	15	0	23.42		1
	15	17	23.61		1
	15	35	23.70	0-1	1
	27	0	23.47		1
	27	12	23.55		1
16QAM	27	23	23.66	0-1	1
	1	0	23.61		1
	1	25	23.95		1
	1	49	24.00	0-2	1
	25	0	22.40		2
	25	12	22.51		2
	25	25	22.61	0-2	2
	15	0	22.39		2
	15	17	22.53		2
	15	35	22.67	0-2	2
	27	0	22.43		2
	27	12	22.48		2
	27	23	22.60		2

Note: LTE Band 5 (Cell) at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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LTE Band 66

Table 8-7
LTE Band 66 Conducted Powers – 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	23.32	23.04	23.22	0	0	
	1	50	23.17	22.90	23.21		0	
	1	99	23.33	23.00	23.19		0	
	50	0	22.62	22.65	22.66	0-1	1	
	50	25	22.65	22.66	22.64		1	
	50	50	22.80	22.68	22.63		1	
	100	0	22.74	22.63	22.79	0	1	
	15	0	23.05	23.24	23.05		0	
	15	42	23.03	23.15	23.15		0	
	15	85	23.09	23.08	23.04	0-1	0	
	27	0	22.51	22.72	22.47		1	
	27	37	22.52	22.61	22.60		1	
	16QAM	27	73	22.54	22.55	22.50	0-1	1
		1	0	22.60	22.77	22.80		1
1		50	22.55	22.69	22.79	0-1	1	
1		99	22.90	22.72	22.77		1	
15		0	22.28	22.40	22.31		1	
15		42	22.26	22.29	22.33	0-1	1	
15		85	22.27	22.24	22.27		1	
27		0	21.57	21.70	21.65	0-2	2	
27		37	21.63	21.62	21.64		2	
27		73	21.67	21.60	21.60		2	

8.2.5

LTE Band 25

Table 8-8
LTE Band 25 Conducted Powers – 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	23.30	23.67	23.43	0	0
	1	50	23.36	23.56	23.49		0
	1	99	23.50	23.43	23.27		0
	50	0	22.40	22.66	22.36	0-1	1
	50	25	22.47	22.49	22.38		1
	50	50	22.55	22.41	22.26		1
	100	0	22.60	22.61	22.65	0	1
	15	0	23.25	23.47	23.28		0
	15	42	23.41	23.45	23.32		0
	15	85	23.51	23.30	23.13	0-1	0
	27	0	22.25	22.45	22.28		1
	27	37	22.42	22.43	22.29		1
27	73	22.49	22.28	22.13	1		
16QAM	1	0	22.36	22.68	22.49	0-1	1
	1	50	22.47	22.55	22.41		1
	1	99	22.69	22.45	22.33		1
	15	0	22.77	22.02	21.82	0-1	1
	15	42	22.75	22.00	21.85		1
	15	85	22.76	21.90	21.73		1
	27	0	20.86	21.02	20.82	0-2	2
	27	37	21.00	20.99	20.92		2
	27	73	21.05	20.85	20.75		2

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LTE Band 7

Table 8-9
LTE Band 7 Conducted Powers – 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	22.36	22.23	21.77	0	0
	1	50	22.11	22.02	21.96		0
	1	99	22.23	21.85	21.91		0
	50	0	21.25	21.16	20.95	0-1	1
	50	25	21.04	21.02	21.05		1
	50	50	21.08	20.87	20.99		1
	100	0	21.15	21.14	21.16	0	1
	15	0	22.20	21.90	22.09		0
	15	42	22.12	21.90	22.13		0
	15	85	22.06	21.92	22.22	0-1	0
	27	0	21.16	20.89	21.03		1
	27	37	21.15	20.91	21.13		1
	27	73	21.08	20.90	21.15		1
16QAM	1	0	21.50	21.32	21.40	0-1	1
	1	50	21.46	21.12	21.33		1
	1	99	21.35	21.25	21.62		1
	15	0	21.00	20.70	20.82	0-1	1
	15	42	20.92	20.67	20.91		1
	15	85	20.85	20.66	20.94		1
	27	0	19.97	19.62	19.80	0-2	2
	27	37	19.73	19.61	19.90		2
	27	73	19.67	19.60	19.87		2

8.2.7

LTE Band 41

Table 8-10
LTE Band 41 Conducted Powers – 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	22.32	22.02	22.08	22.24	22.49	0	0
	1	50	22.23	22.08	22.23	22.31	22.53		0
	1	99	22.08	21.99	22.15	22.33	22.42		0
	50	0	21.18	20.91	21.15	21.29	21.42	0-1	1
	50	25	21.17	20.98	21.19	21.28	21.40		1
	50	50	21.18	20.95	21.20	21.30	21.35		1
	100	0	21.19	21.05	21.19	21.27	21.41	0	1
	15	0	22.36	22.05	22.08	22.46	22.45		0
	15	42	22.37	22.14	22.14	22.49	22.47		0
	15	85	22.19	22.08	22.08	22.48	22.42	0-1	0
	27	0	21.33	21.03	21.02	21.43	21.45		1
	27	37	21.29	21.14	21.13	21.45	21.47		1
	27	73	21.18	21.06	21.07	21.43	21.38	0-1	1
	1	0	21.16	20.92	20.88	21.23	21.42		1
	1	50	21.12	21.04	21.05	21.41	21.38		0-1
16QAM	1	99	20.95	20.90	21.00	21.40	21.40	0-1	1
	15	0	21.07	20.83	21.02	21.01	21.25		1
	15	42	21.08	20.93	21.08	20.91	21.31		0-1
	15	85	21.00	20.85	21.10	20.90	21.21	0-2	1
	27	0	20.06	19.80	19.97	19.91	20.15		2
	27	37	20.00	19.87	20.04	19.90	20.18		2
	27	73	19.95	19.79	20.03	19.96	20.10		2

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8.3 WLAN Conducted Powers

Table 8-11
2.4 GHz WLAN Average RF Power

2.4GHz Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11b	802.11g	802.11n
		Average	Average	Average
2412	1	17.93	16.04	16.04
2417	2		17.07	17.06
2437	6	17.87	16.94	16.94
2452	9		17.14	17.11
2457	10		17.02	17.03
2462	11	18.26	15.60	15.52

Table 8-12
5 GHz WLAN Maximum Average RF Power

5GHz (20MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11a	802.11n
		Average	Average
5180	36	16.04	15.74
5200	40	15.87	15.69
5220	44	15.90	15.63
5240	48	15.94	15.67
5260	52	15.95	15.72
5280	56	15.90	15.77
5300	60	16.16	15.82
5320	64	16.11	15.92
5500	100	16.06	15.80
5600	120	16.17	15.86
5620	124	16.02	15.91
5720	144	15.96	15.97
5745	149	16.13	16.03
5785	157	16.01	16.05
5825	165	16.12	16.00

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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.

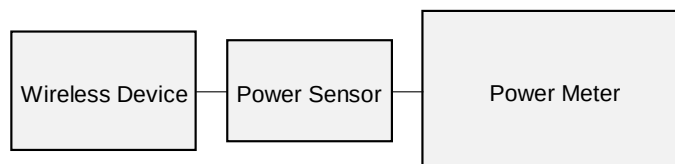


Figure 8-2
Power Measurement Setup

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8.4 Bluetooth Conducted Powers

Table 8-13
Bluetooth Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.82	15.205
2441	GFSK	1.0	39	11.86	15.346
2480	GFSK	1.0	78	11.92	15.560

Note1: Bluetooth was evaluated with a test mode with 100% transmission duty factor.

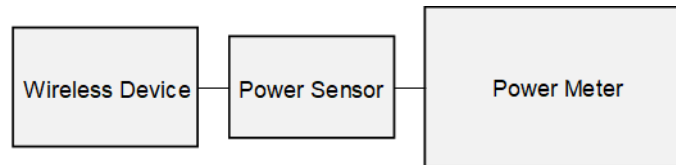


Figure 8-3
Power Measurement Setup

FCC ID: BCG-A2475	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Head Tissue Properties

Calibrated for Tests Performed	Tissue Type	Tissue Temp During Calibration	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
06/27/2021	750 Head	20.8	680	0.851	42.681	0.888	42.305	-4.17%	0.89%
			695	0.856	42.642	0.889	42.227	-3.71%	0.98%
			700	0.858	42.628	0.889	42.201	-3.49%	1.01%
			710	0.861	42.596	0.890	42.149	-3.26%	1.06%
			725	0.866	42.547	0.891	42.071	-2.81%	1.13%
			750	0.875	42.468	0.894	41.942	-2.13%	1.25%
			770	0.882	42.424	0.895	41.838	-1.45%	1.40%
			785	0.887	42.389	0.896	41.760	-1.00%	1.51%
			800	0.892	42.345	0.897	41.682	-0.56%	1.59%
			815	0.896	42.306	0.897	41.604	-0.12%	1.67%
8/6/2021	750 Head	22.2	680	0.882	42.336	0.888	42.305	-0.68%	0.07%
			695	0.886	42.288	0.889	42.227	-0.34%	0.14%
			700	0.888	42.273	0.889	42.201	-0.11%	0.17%
			710	0.891	42.246	0.890	42.149	0.11%	0.23%
			725	0.896	42.202	0.891	42.071	0.56%	0.31%
			750	0.905	42.133	0.894	41.942	1.23%	0.46%
			770	0.912	42.093	0.895	41.838	1.90%	0.61%
			785	0.917	42.058	0.896	41.760	2.34%	0.71%
			800	0.923	42.011	0.897	41.682	2.90%	0.79%
			815	0.928	41.964	0.897	41.604	3.46%	0.87%
08/09/2021	750 Head	22.3	680	0.850	43.402	0.888	42.305	-4.28%	2.59%
			695	0.854	43.377	0.889	42.227	-3.94%	2.72%
			700	0.856	43.368	0.889	42.201	-3.71%	2.77%
			710	0.859	43.347	0.890	42.149	-3.48%	2.84%
			725	0.864	43.308	0.891	42.071	-3.03%	2.94%
			750	0.873	43.230	0.894	41.942	-2.35%	3.07%
			770	0.880	43.182	0.895	41.838	-1.68%	3.21%
			785	0.885	43.153	0.896	41.760	-1.23%	3.34%
			800	0.890	43.120	0.897	41.682	-0.78%	3.45%
			815	0.918	40.442	0.898	41.594	2.23%	-2.77%
07/21/2021	835 Head	21.5	820	0.920	40.426	0.899	41.578	2.34%	-2.77%
			835	0.926	40.377	0.900	41.500	2.89%	-2.71%
			850	0.932	40.338	0.916	41.500	1.75%	-2.80%
			865	0.938	40.299	0.927	41.500	0.60%	-2.89%
07/27/2021	835 Head	20.6	815	0.932	40.128	0.898	41.594	3.79%	-3.52%
			820	0.933	40.078	0.899	41.578	3.78%	-3.61%
			835	0.939	40.050	0.900	41.500	4.33%	-3.49%
			850	0.945	40.010	0.916	41.500	3.17%	-3.59%
07/30/2021	835 Head	21.5	815	0.928	40.894	0.898	41.594	3.34%	-1.68%
			820	0.930	40.861	0.899	41.578	3.45%	-1.72%
			835	0.938	40.831	0.900	41.500	4.22%	-1.61%
			850	0.943	40.787	0.916	41.500	2.95%	-1.72%
06/20/2021	1750 Head	21.5	1710	1.332	38.719	1.348	40.142	-1.19%	-3.54%
			1720	1.338	38.703	1.354	40.126	-1.18%	-3.55%
			1745	1.353	38.666	1.368	40.087	-1.10%	-3.54%
			1750	1.356	38.659	1.371	40.079	-1.09%	-3.54%
			1770	1.367	38.622	1.383	40.047	-1.16%	-3.56%
			1790	1.378	38.580	1.394	40.016	-1.15%	-3.59%
07/20/2021	1750 Head	21.3	1710	1.351	39.243	1.348	40.142	0.22%	-2.24%
			1720	1.357	39.227	1.354	40.126	0.22%	-2.24%
			1745	1.372	39.200	1.368	40.087	0.29%	-2.21%
			1750	1.375	39.194	1.371	40.079	0.29%	-2.21%
			1770	1.386	39.173	1.383	40.047	0.22%	-2.18%
			1790	1.398	39.142	1.394	40.016	0.29%	-2.18%
06/20/2021	1900 Head	21.5	1850	1.410	38.486	1.400	40.000	0.71%	-3.79%
			1860	1.415	38.471	1.400	40.000	1.07%	-3.82%
			1880	1.426	38.437	1.400	40.000	1.86%	-3.91%
			1900	1.438	38.415	1.400	40.000	2.71%	-3.96%
			1905	1.440	38.411	1.400	40.000	2.86%	-3.97%
			1910	1.443	38.407	1.400	40.000	3.07%	-3.98%
07/21/2021	1900 Head	21.4	1850	1.432	39.214	1.400	40.000	2.29%	-1.97%
			1860	1.438	39.197	1.400	40.000	2.71%	-2.01%
			1880	1.451	39.160	1.400	40.000	3.64%	-2.10%
			1900	1.463	39.131	1.400	40.000	4.50%	-2.17%
			1905	1.466	39.127	1.400	40.000	4.71%	-2.18%
			1910	1.469	39.121	1.400	40.000	4.93%	-2.20%

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Table 9-2
Measured Head Tissue Properties (Cont.)

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
06/18/2021	2450 Head	21.8	2400	1.784	38.999	1.756	39.289	1.59%	-0.74%
			2450	1.825	38.923	1.800	39.200	1.39%	-0.71%
			2480	1.850	38.886	1.833	39.162	0.93%	-0.70%
			2500	1.864	38.849	1.855	39.136	0.49%	-0.73%
			2510	1.871	38.831	1.866	39.123	0.27%	-0.75%
			2535	1.891	38.797	1.893	39.092	-0.11%	-0.75%
			2550	1.905	38.778	1.909	39.073	-0.21%	-0.75%
			2560	1.914	38.764	1.920	39.060	-0.31%	-0.76%
			2600	1.944	38.698	1.964	39.009	-1.02%	-0.80%
			2650	1.986	38.622	2.018	38.945	-1.59%	-0.83%
			2680	2.009	38.581	2.051	38.907	-2.05%	-0.84%
			2700	2.024	38.543	2.073	38.882	-2.36%	-0.87%
06/28/2021	2450 Head	21.5	2400	1.802	39.177	1.756	39.289	2.62%	-0.29%
			2450	1.858	39.001	1.800	39.200	3.22%	-0.51%
			2480	1.888	38.906	1.833	39.162	3.00%	-0.65%
			2500	1.910	38.809	1.855	39.136	2.96%	-0.84%
			2510	1.921	38.780	1.866	39.123	2.95%	-0.88%
			2535	1.949	38.707	1.893	39.092	2.96%	-0.98%
			2550	1.963	38.657	1.909	39.073	2.83%	-1.06%
			2560	1.977	38.623	1.920	39.060	2.97%	-1.12%
			2600	2.020	38.480	1.964	39.009	2.85%	-1.36%
			2650	2.078	38.309	2.018	38.945	2.97%	-1.63%
			2680	2.109	38.190	2.051	38.907	2.83%	-1.84%
			2700	2.131	38.124	2.073	38.882	2.80%	-1.95%
07/22/2021	2450 Head	21.6	2400	1.801	37.531	1.756	39.289	2.56%	-4.47%
			2450	1.839	37.470	1.800	39.200	2.17%	-4.41%
			2480	1.858	37.419	1.833	39.162	1.36%	-4.45%
			2500	1.875	37.372	1.855	39.136	1.08%	-4.51%
07/26/2021	2450 Head	22.5	2400	1.787	38.704	1.756	39.289	1.77%	-1.49%
			2450	1.825	38.641	1.800	39.200	1.39%	-1.43%
			2480	1.846	38.596	1.833	39.162	0.71%	-1.45%
			2500	1.861	38.561	1.855	39.136	0.32%	-1.47%
08/12/2021	2450 Head	22.7	2400	1.746	38.887	1.756	39.289	-0.57%	-1.02%
			2450	1.786	38.827	1.800	39.200	-0.78%	-0.95%
			2480	1.807	38.776	1.833	39.162	-1.42%	-0.99%
			2500	1.823	38.732	1.855	39.136	-1.73%	-1.03%
			2510	1.832	38.715	1.866	39.123	-1.82%	-1.04%
			2535	1.852	38.688	1.893	39.092	-2.17%	-1.03%
			2550	1.863	38.670	1.909	39.073	-2.41%	-1.03%
			2560	1.870	38.653	1.920	39.060	-2.60%	-1.04%
			2600	1.902	38.578	1.964	39.009	-3.16%	-1.10%
			2650	1.942	38.508	2.018	38.945	-3.77%	-1.12%
			2680	1.963	38.449	2.051	38.907	-4.29%	-1.18%
			2700	1.980	38.411	2.073	38.882	-4.49%	-1.21%
07/23/2021	5200-5800 Head	21.6	5180	4.508	36.015	4.635	36.009	-2.74%	0.02%
			5190	4.519	35.996	4.645	35.998	-2.71%	-0.01%
			5200	4.530	35.981	4.655	35.986	-2.69%	-0.01%
			5210	4.543	35.973	4.666	35.975	-2.64%	-0.01%
			5220	4.555	35.961	4.676	35.963	-2.59%	-0.01%
			5240	4.577	35.913	4.696	35.940	-2.53%	-0.08%
			5250	4.587	35.891	4.706	35.929	-2.53%	-0.11%
			5260	4.600	35.878	4.717	35.917	-2.48%	-0.11%
			5270	4.612	35.865	4.727	35.906	-2.43%	-0.11%
			5280	4.623	35.844	4.737	35.894	-2.41%	-0.14%
			5290	4.633	35.824	4.748	35.883	-2.42%	-0.16%
			5300	4.644	35.807	4.758	35.871	-2.40%	-0.18%
			5310	4.653	35.792	4.768	35.860	-2.41%	-0.19%
			5320	4.664	35.774	4.778	35.849	-2.39%	-0.21%
			5500	4.856	35.426	4.963	35.643	-2.16%	-0.61%
			5510	4.868	35.400	4.973	35.632	-2.11%	-0.65%
			5520	4.882	35.383	4.983	35.620	-2.03%	-0.67%
			5530	4.895	35.371	4.994	35.609	-1.98%	-0.67%
			5540	4.909	35.355	5.004	35.597	-1.90%	-0.68%
			5550	4.921	35.338	5.014	35.586	-1.85%	-0.70%
			5560	4.932	35.322	5.024	35.574	-1.83%	-0.71%
			5580	4.954	35.294	5.045	35.551	-1.80%	-0.72%
			5600	4.979	35.265	5.065	35.529	-1.70%	-0.74%
			5610	4.992	35.251	5.076	35.518	-1.65%	-0.75%
			5620	5.005	35.229	5.086	35.506	-1.59%	-0.78%
			5640	5.030	35.190	5.106	35.483	-1.49%	-0.83%
			5660	5.055	35.173	5.127	35.460	-1.40%	-0.81%
			5670	5.068	35.158	5.137	35.449	-1.34%	-0.82%
			5680	5.079	35.141	5.147	35.437	-1.32%	-0.84%
			5690	5.087	35.123	5.158	35.426	-1.38%	-0.86%
			5700	5.099	35.105	5.168	35.414	-1.34%	-0.87%
			5710	5.113	35.088	5.178	35.403	-1.26%	-0.89%
			5720	5.127	35.074	5.188	35.391	-1.18%	-0.90%
			5745	5.160	35.032	5.214	35.363	-1.04%	-0.94%
			5750	5.165	35.021	5.219	35.357	-1.03%	-0.95%
			5755	5.172	35.009	5.224	35.351	-1.00%	-0.97%
			5765	5.183	34.987	5.234	35.340	-0.97%	-1.00%
			5775	5.192	34.969	5.245	35.329	-1.01%	-1.02%
			5785	5.204	34.957	5.255	35.317	-0.97%	-1.02%
			5795	5.215	34.946	5.265	35.305	-0.95%	-1.02%
			5800	5.219	34.941	5.270	35.300	-0.97%	-1.02%
			5800	5.219	34.941	5.270	35.300	-0.97%	-1.02%
			5805	5.225	34.933	5.275	35.294	-0.95%	-1.02%
			5825	5.247	34.901	5.296	35.271	-0.93%	-1.05%

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Table 9-3
Measured Body 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
07/27/2021	750 Body	20.7	680	0.961	53.332	0.958	55.804	0.31%	-4.43%
			695	0.966	53.314	0.959	55.745	0.73%	-4.36%
			700	0.968	53.306	0.959	55.726	0.94%	-4.34%
			710	0.972	53.284	0.960	55.687	1.25%	-4.32%
			725	0.977	53.234	0.961	55.629	1.66%	-4.31%
			750	0.987	53.148	0.964	55.531	2.39%	-4.29%
			770	0.994	53.115	0.965	55.453	3.01%	-4.22%
			785	1.000	53.092	0.966	55.395	3.52%	-4.16%
			800	1.005	53.056	0.967	55.336	3.93%	-4.12%
08/09/2021	750 Body	19.7	680	0.912	53.735	0.958	55.804	-4.80%	-3.71%
			695	0.917	53.719	0.959	55.745	-4.38%	-3.63%
			700	0.918	53.715	0.959	55.726	-4.28%	-3.61%
			710	0.922	53.707	0.960	55.687	-3.96%	-3.56%
			725	0.927	53.686	0.961	55.629	-3.54%	-3.49%
			750	0.937	53.635	0.964	55.531	-2.80%	-3.41%
			770	0.945	53.599	0.965	55.453	-2.07%	-3.34%
			785	0.951	53.572	0.966	55.395	-1.55%	-3.29%
			800	0.956	53.544	0.967	55.336	-1.14%	-3.24%
8/11/2021	750 Body	20.3	680	0.936	53.745	0.958	55.804	-2.30%	-3.69%
			695	0.942	53.71	0.959	55.745	-1.77%	-3.65%
			700	0.943	53.698	0.959	55.726	-1.67%	-3.64%
			710	0.947	53.67	0.96	55.687	-1.35%	-3.62%
			725	0.951	53.63	0.961	55.629	-1.04%	-3.59%
			750	0.960	53.571	0.964	55.531	-0.41%	-3.53%
			770	0.969	53.546	0.965	55.453	0.41%	-3.44%
			785	0.975	53.519	0.966	55.395	0.93%	-3.39%
			800	0.981	53.47	0.967	55.336	1.45%	-3.37%
07/27/2021	835 Body	20.6	815	0.965	54.749	0.968	55.271	-0.31%	-0.94%
			820	0.968	54.691	0.969	55.258	-0.10%	-1.03%
			835	0.986	54.559	0.970	55.200	1.65%	-1.16%
			850	1.002	54.415	0.988	55.154	1.42%	-1.34%
08/02/2021	835 Body	21.0	815	0.960	53.729	0.968	55.271	-0.83%	-2.79%
			820	0.966	53.672	0.969	55.258	-0.31%	-2.87%
			835	0.982	53.509	0.970	55.200	1.24%	-3.06%
			850	0.997	53.358	0.988	55.154	0.91%	-3.26%
08/19/2021	835 Body	20.5	815	0.996	52.846	0.968	55.271	2.89%	-4.39%
			820	0.998	52.835	0.969	55.258	2.99%	-4.38%
			835	1.004	52.813	0.970	55.200	3.51%	-4.32%
			850	1.009	52.792	0.988	55.154	2.13%	-4.28%
06/20/2021	1750 Body	21.9	1710	1.464	54.335	1.463	53.537	0.07%	1.49%
			1720	1.470	54.326	1.469	53.511	0.07%	1.52%
			1745	1.487	54.305	1.485	53.445	0.13%	1.61%
			1750	1.490	54.302	1.488	53.432	0.13%	1.63%
			1770	1.504	54.277	1.501	53.379	0.20%	1.68%
			1790	1.519	54.236	1.514	53.326	0.33%	1.71%
06/28/2021	1750 Body	21.1	1710	1.432	53.525	1.463	53.537	-2.12%	-0.02%
			1720	1.439	53.510	1.469	53.511	-2.04%	0.00%
			1745	1.456	53.474	1.485	53.445	-1.95%	0.05%
			1750	1.460	53.468	1.488	53.432	-1.88%	0.07%
			1770	1.474	53.446	1.501	53.379	-1.80%	0.13%
			1790	1.489	53.419	1.514	53.326	-1.65%	0.17%
08/05/2021	1900 Body	22.6	1850	1.530	52.102	1.520	53.300	0.66%	-2.25%
			1860	1.540	52.072	1.520	53.300	1.32%	-2.30%
			1880	1.560	52.010	1.520	53.300	2.63%	-2.42%
			1900	1.579	51.955	1.520	53.300	3.88%	-2.52%
			1905	1.583	51.942	1.520	53.300	4.14%	-2.55%
			1910	1.588	51.927	1.520	53.300	4.47%	-2.58%
08/09/2021	1900 Body	20.8	1850	1.497	52.075	1.52	53.3	-1.51%	-2.30%
			1860	1.508	52.035	1.52	53.3	-0.79%	-2.37%
			1880	1.531	51.957	1.52	53.3	0.72%	-2.52%
			1900	1.553	51.893	1.52	53.3	2.17%	-2.64%
			1905	1.559	51.879	1.52	53.3	2.57%	-2.67%
			1910	1.564	51.864	1.52	53.3	2.89%	-2.69%

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Table 9-4
Measured Body Tissue Properties (Cont.)

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
07/18/2021	2450 Body	21.4	2400	1.975	52.530	1.902	52.767	3.84%	-0.45%
			2450	2.025	52.517	1.950	52.700	3.85%	-0.35%
			2480	2.054	52.486	1.993	52.662	3.06%	-0.33%
			2500	2.075	52.461	2.021	52.636	2.67%	-0.33%
07/19/2021	2450 Body	20.7	2400	1.968	52.911	1.902	52.767	3.47%	0.27%
			2450	2.016	52.857	1.950	52.700	3.38%	0.30%
			2480	2.042	52.790	1.993	52.662	2.46%	0.24%
			2500	2.061	52.748	2.021	52.636	1.98%	0.21%
			2510	2.071	52.734	2.035	52.623	1.77%	0.21%
			2535	2.094	52.710	2.071	52.592	1.11%	0.22%
			2550	2.107	52.691	2.092	52.573	0.72%	0.22%
			2560	2.116	52.674	2.106	52.560	0.47%	0.22%
			2600	2.156	52.599	2.163	52.509	-0.32%	0.17%
			2650	2.205	52.538	2.234	52.445	-1.30%	0.18%
			2680	2.234	52.469	2.277	52.407	-1.89%	0.12%
			2700	2.254	52.433	2.305	52.382	-2.21%	0.10%
07/21/2021	2450 Body	21.1	2400	1.958	52.052	1.902	52.767	2.94%	-1.36%
			2450	2.005	51.978	1.950	52.700	2.82%	-1.37%
			2480	2.032	51.922	1.993	52.662	1.96%	-1.41%
			2500	2.053	51.877	2.021	52.636	1.58%	-1.44%
			2510	2.063	51.859	2.035	52.623	1.38%	-1.45%
			2535	2.086	51.819	2.071	52.592	0.72%	-1.47%
			2550	2.099	51.790	2.092	52.573	0.33%	-1.49%
			2560	2.107	51.769	2.106	52.560	0.05%	-1.50%
			2600	2.146	51.699	2.163	52.509	-0.79%	-1.54%
			2650	2.194	51.616	2.234	52.445	-1.79%	-1.58%
			2680	2.221	51.552	2.277	52.407	-2.46%	-1.63%
			2700	2.240	51.514	2.305	52.382	-2.82%	-1.66%
07/27/2021	2450 Body	22.7	2400	1.974	51.188	1.902	52.767	3.79%	-2.99%
			2450	2.030	51.033	1.950	52.700	4.10%	-3.16%
			2480	2.069	50.961	1.993	52.662	3.81%	-3.23%
			2500	2.093	50.919	2.021	52.636	3.56%	-3.26%
07/23/2021	5200-5800 Body	22.4	5180	5.311	48.378	5.276	49.041	0.66%	-1.35%
			5190	5.327	48.362	5.288	49.028	0.74%	-1.36%
			5200	5.340	48.349	5.299	49.014	0.77%	-1.36%
			5210	5.353	48.341	5.311	49.001	0.79%	-1.35%
			5220	5.368	48.325	5.323	48.987	0.85%	-1.35%
			5240	5.395	48.270	5.346	48.960	0.92%	-1.41%
			5250	5.410	48.246	5.358	48.947	0.97%	-1.43%
			5260	5.425	48.225	5.369	48.933	1.04%	-1.45%
			5270	5.441	48.220	5.381	48.919	1.12%	-1.43%
			5280	5.456	48.202	5.393	48.906	1.17%	-1.44%
			5290	5.469	48.181	5.404	48.892	1.20%	-1.45%
			5300	5.481	48.157	5.416	48.879	1.20%	-1.48%
			5310	5.492	48.136	5.428	48.865	1.18%	-1.49%
			5320	5.507	48.120	5.439	48.851	1.25%	-1.50%
			5500	5.765	47.778	5.650	48.607	2.04%	-1.71%
			5510	5.780	47.748	5.661	48.594	2.10%	-1.74%
			5520	5.795	47.731	5.673	48.580	2.15%	-1.75%
			5530	5.810	47.710	5.685	48.566	2.20%	-1.76%
			5540	5.827	47.699	5.696	48.553	2.30%	-1.76%
			5550	5.841	47.679	5.708	48.539	2.33%	-1.77%
			5560	5.855	47.658	5.720	48.526	2.36%	-1.79%
			5580	5.886	47.623	5.743	48.499	2.49%	-1.81%
			5600	5.917	47.582	5.766	48.471	2.62%	-1.83%
			5610	5.930	47.561	5.778	48.458	2.63%	-1.85%
			5620	5.944	47.548	5.790	48.444	2.66%	-1.85%
			5640	5.977	47.513	5.813	48.417	2.82%	-1.87%
			5660	6.005	47.483	5.837	48.390	2.88%	-1.87%
			5670	6.019	47.459	5.848	48.376	2.92%	-1.90%
			5680	6.030	47.430	5.860	48.363	2.90%	-1.93%
			5690	6.042	47.403	5.872	48.349	2.90%	-1.96%
			5700	6.059	47.390	5.883	48.336	2.99%	-1.96%
			5710	6.077	47.382	5.895	48.322	3.09%	-1.95%
			5720	6.096	47.359	5.907	48.309	3.20%	-1.97%
			5745	6.131	47.331	5.936	48.275	3.29%	-1.96%
			5750	6.140	47.325	5.942	48.268	3.33%	-1.95%
			5755	6.150	47.317	5.947	48.261	3.41%	-1.96%
			5765	6.165	47.289	5.959	48.248	3.46%	-1.99%
			5775	6.178	47.259	5.971	48.234	3.47%	-2.02%
			5785	6.190	47.245	5.982	48.220	3.48%	-2.02%
			5795	6.204	47.228	5.994	48.207	3.50%	-2.03%
			5800	6.211	47.222	6.000	48.200	3.52%	-2.03%
			5805	6.220	47.216	6.006	48.193	3.56%	-2.03%
			5825	6.249	47.172	6.029	48.166	3.65%	-2.06%

The above measured tissue parameters were used in the 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). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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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 Appendix D.

Table 9-5
System Verification Results – 1g

System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{1g} (W/kg)	1W Target SAR _{1g} (W/kg)	1W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
AM3	750	HEAD	06/27/2021	21.2	20.7	0.20	1057	7421	1.710	8.52	1.704	0.35%
AM4B	750	HEAD	08/06/2021	22.9	22.6	0.20	1057	7640	1.810	8.52	1.704	6.22%
AM8	750	HEAD	08/09/2021	23.5	21.8	0.20	1057	7558	1.750	8.52	1.704	2.70%
AM4A	835	HEAD	07/21/2021	24.5	21.2	0.20	4d040	7427	1.990	9.50	1.900	4.74%
AM5	835	HEAD	07/30/2021	20.4	20.3	0.20	4d040	3949	2.050	9.50	1.900	7.89%
AM10	850	HEAD	07/27/2021	23.7	21.4	0.20	1010	7639	2.090	9.84	1.968	6.20%
AM5	1750	HEAD	06/20/2021	21.7	21.5	0.10	1083	3949	3.880	36.10	3.610	7.48%
AM4B	1750	HEAD	07/20/2021	23.3	21.4	0.10	1083	7640	3.800	36.10	3.610	5.26%
AM4A	1900	HEAD	06/20/2021	22.9	21.5	0.10	5d030	7427	4.000	39.90	3.990	0.25%
AM10	1900	HEAD	07/21/2021	22.0	21.4	0.10	5d181	7639	4.010	40.10	4.010	0.00%
AM5	2450	HEAD	06/18/2021	20.1	20.1	0.10	921	3949	5.450	53.10	5.310	2.64%
AM1	2450	HEAD	06/28/2021	21.1	21.3	0.10	750	3837	5.110	53.10	5.310	-3.77%
AM4B	2450	HEAD	07/22/2021	23.3	21.5	0.10	750	7640	5.030	53.10	5.310	-5.27%
AM4B	2450	HEAD	07/26/2021	22.9	22.8	0.10	750	7640	4.990	53.10	5.310	-6.03%
AM8	2450	HEAD	08/12/2021	22.5	21.9	0.10	921	7558	5.380	53.10	5.310	1.32%
AM5	2600	HEAD	06/18/2021	20.1	20.1	0.10	1069	3949	5.670	55.60	5.560	1.98%
AM1	2600	HEAD	06/28/2021	21.1	21.3	0.10	1042	3837	5.970	57.70	5.770	3.47%
AM8	2600	HEAD	08/12/2021	22.5	21.9	0.10	1042	7558	5.570	57.70	5.770	-3.47%
AM8	5250	HEAD	07/23/2021	21.1	20.6	0.05	1123	7558	3.910	82.20	4.110	-4.87%
AM8	5600	HEAD	07/23/2021	21.1	20.6	0.05	1123	7558	3.990	84.50	4.225	-5.56%
AM8	5750	HEAD	07/23/2021	21.1	20.6	0.05	1123	7558	3.790	81.30	4.065	-6.77%

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Table 9-6
System Verification Results – 10g

System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{10g} (W/kg)	1W Target SAR _{10g} (W/kg)	1W Normalized SAR _{10g} (W/kg)	Deviation _{10g} (%)
AM6	750	BODY	07/27/2021	21.2	20.4	0.20	1097	7416	1.170	5.60	1.120	4.46%
AM6	750	BODY	08/09/2021	21.2	19.5	0.20	1057	7416	1.140	5.68	1.136	0.35%
AM6	750	BODY	08/11/2021	22.0	20.5	0.20	1057	7416	1.220	5.68	1.136	7.39%
AM5	835	BODY	07/27/2021	20.7	20.6	0.20	4d040	3949	1.250	6.24	1.248	0.16%
AM4B	835	BODY	08/02/2021	22.9	20.9	0.20	4d040	7640	1.340	6.24	1.248	7.37%
AM6	835	BODY	08/19/2021	22.5	20.1	0.20	4d040	7416	1.340	6.24	1.248	7.37%
AM10	1750	BODY	06/20/2021	21.9	21.9	0.10	1083	7639	1.880	19.70	1.970	-4.57%
AM10	1750	BODY	06/28/2021	21.3	19.5	0.10	1083	7639	1.900	19.70	1.970	-3.55%
AM10	1900	BODY	08/05/2021	22.7	21.3	0.10	5d030	7639	1.990	21.10	2.110	-5.69%
AM4B	1900	BODY	08/09/2021	23.1	21.2	0.10	5d030	7640	2.040	21.10	2.110	-3.32%
AM8	2450	BODY	07/18/2021	22.7	22.5	0.10	750	7558	2.360	24.10	2.410	-2.07%
AM2	2450	BODY	07/19/2021	21.5	20.8	0.10	750	7532	2.350	24.10	2.410	-2.49%
AM2	2450	BODY	07/21/2021	22.1	21.2	0.10	750	7532	2.350	24.10	2.410	-2.49%
AM4B	2450	BODY	07/27/2021	22.7	22.5	0.10	750	7640	2.350	24.10	2.410	-2.49%
AM2	2600	BODY	07/19/2021	21.5	20.8	0.10	1042	7532	2.620	24.90	2.490	5.22%
AM2	2600	BODY	07/21/2021	22.1	21.2	0.10	1042	7532	2.540	24.90	2.490	2.01%
AM9	5250	BODY	07/23/2021	21.5	20.4	0.05	1123	7638	1.070	20.30	1.015	5.42%
AM9	5600	BODY	07/23/2021	21.5	20.4	0.05	1123	7638	1.130	21.20	1.060	6.60%
AM9	5750	BODY	07/23/2021	21.5	20.4	0.05	1123	7638	1.080	20.10	1.005	7.46%

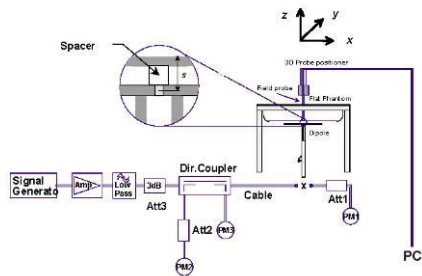


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR DATA SUMMARY

10.1 Standalone Head SAR Data

Table 10-1
UMTS 850 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.05	Front	10 mm	Aluminum	Sport	QWVGJK4MV34	1:1	0.000	1.245	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.00	Front	10 mm	Aluminum	Metal Links	QWVGJK4MV34	1:1	0.000	1.245	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.00	Front	10 mm	Aluminum	Metal Loop	QWVGJK4MV34	1:1	0.000	1.245	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.00	Front	10 mm	Stainless Steel	Sport	H919X012VC	1:1	0.000	1.245	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.00	Front	10 mm	Stainless Steel	Metal Links	H919X012VC	1:1	0.000	1.245	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.10	Front	10 mm	Stainless Steel	Metal Loop	H919X012VC	1:1	0.000	1.245	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.14	Front	10 mm	Titanium	Sport	Y09C9Y7XKN	1:1	0.000	1.245	0.000	A1
836.60	4183	UMTS 850	RMC	25.00	24.05	0.10	Front	10 mm	Titanium	Metal Links	Y09C9Y7XKN	1:1	0.000	1.245	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.03	Front	10 mm	Titanium	Metal Loop	Y09C9Y7XKN	1:1	0.000	1.245	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-2
UMTS 1750 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.11	Front	10 mm	Aluminum	Sport	HK7NX0N6WW	1:1	0.112	1.247	0.140	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	0.07	Front	10 mm	Aluminum	Metal Links	HK7NX0N6WW	1:1	0.197	1.247	0.246	A2
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.05	Front	10 mm	Aluminum	Metal Loop	HK7NX0N6WW	1:1	0.189	1.247	0.236	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	0.02	Front	10 mm	Stainless Steel	Sport	WR6JJRPYX5	1:1	0.105	1.247	0.131	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	0.11	Front	10 mm	Stainless Steel	Metal Links	WR6JJRPYX5	1:1	0.187	1.247	0.233	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.10	Front	10 mm	Stainless Steel	Metal Loop	WR6JJRPYX5	1:1	0.186	1.247	0.232	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	0.05	Front	10 mm	Titanium	Sport	NYJ57CTW3J	1:1	0.092	1.247	0.115	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	0.03	Front	10 mm	Titanium	Metal Links	NYJ57CTW3J	1:1	0.184	1.247	0.229	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.03	Front	10 mm	Titanium	Metal Loop	NYJ57CTW3J	1:1	0.179	1.247	0.223	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 10-3
UMTS 1900 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	-0.03	Front	10 mm	Aluminum	Sport	VJ92MGWVQW	1:1	0.111	1.247	0.138	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.03	Front	10 mm	Aluminum	Metal Links	VJ92MGWVQW	1:1	0.228	1.247	0.284	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.08	Front	10 mm	Aluminum	Metal Loop	VJ92MGWVQW	1:1	0.351	1.247	0.438	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	-0.03	Front	10 mm	Stainless Steel	Sport	Y09C9Y7XKN	1:1	0.145	1.247	0.181	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	-0.06	Front	10 mm	Stainless Steel	Metal Links	Y09C9Y7XKN	1:1	0.293	1.247	0.365	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.02	Front	10 mm	Stainless Steel	Metal Loop	Y09C9Y7XKN	1:1	0.398	1.247	0.496	A3
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.02	Front	10 mm	Titanium	Sport	X30GF00WKW	1:1	0.150	1.247	0.187	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	-0.02	Front	10 mm	Titanium	Metal Links	X30GF00WKW	1:1	0.299	1.247	0.373	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.02	Front	10 mm	Titanium	Metal Loop	X30GF00WKW	1:1	0.364	1.247	0.454	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-4
LTE Band 12 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.75	-0.07	0	Front	10 mm	Aluminum	QPSK	1	25	YX21TF2M4R	1:1	0.000	1.189	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.86	0.00	1	Front	10 mm	Aluminum	QPSK	25	0	YX21TF2M4R	1:1	0.000	1.159	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.75	0.10	0	Front	10 mm	Aluminum	QPSK	1	25	YX21TF2M4R	1:1	0.000	1.189	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.86	0.10	1	Front	10 mm	Aluminum	QPSK	25	0	YX21TF2M4R	1:1	0.000	1.159	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.75	0.11	0	Front	10 mm	Aluminum	QPSK	1	25	YX21TF2M4R	1:1	0.000	1.189	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.86	0.00	1	Front	10 mm	Aluminum	QPSK	25	0	YX21TF2M4R	1:1	0.000	1.159	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.75	0.03	0	Front	10 mm	Stainless Steel	QPSK	1	25	WY3JK902WT	1:1	0.000	1.189	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.86	0.05	1	Front	10 mm	Stainless Steel	QPSK	25	0	WY3JK902WT	1:1	0.000	1.159	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.75	0.03	0	Front	10 mm	Stainless Steel	QPSK	1	25	WY3JK902WT	1:1	0.001	1.189	0.001	A4
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.86	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	0	WY3JK902WT	1:1	0.001	1.159	0.001	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.75	0.04	0	Front	10 mm	Stainless Steel	QPSK	1	25	WY3JK902WT	1:1	0.000	1.189	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.86	0.19	1	Front	10 mm	Stainless Steel	QPSK	25	0	WY3JK902WT	1:1	0.000	1.159	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.75	-0.05	0	Front	10 mm	Titanium	QPSK	1	25	QQX7LDF02F	1:1	0.000	1.189	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.86	-0.10	1	Front	10 mm	Titanium	QPSK	25	0	QQX7LDF02F	1:1	0.000	1.159	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.75	0.00	0	Front	10 mm	Titanium	QPSK	1	25	QQX7LDF02F	1:1	0.000	1.189	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.86	0.00	1	Front	10 mm	Titanium	QPSK	25	0	QQX7LDF02F	1:1	0.000	1.159	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.75	0.00	0	Front	10 mm	Titanium	QPSK	1	25	QQX7LDF02F	1:1	0.000	1.189	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.86	0.00	1	Front	10 mm	Titanium	QPSK	25	0	QQX7LDF02F	1:1	0.000	1.159	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-5
LTE Band 13 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.77	0.01	0	Front	10 mm	Aluminum	QPSK	1	49	NWXYWTN2R	1:1	0.000	1.183	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.88	0.10	1	Front	10 mm	Aluminum	QPSK	25	0	NWXYWTN2R	1:1	0.000	1.153	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.77	0.10	0	Front	10 mm	Aluminum	QPSK	1	49	NWXYWTN2R	1:1	0.000	1.183	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.88	0.00	1	Front	10 mm	Aluminum	QPSK	25	0	NWXYWTN2R	1:1	0.000	1.153	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.77	0.10	0	Front	10 mm	Aluminum	QPSK	1	49	NWXYWTN2R	1:1	0.000	1.183	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.88	0.10	1	Front	10 mm	Aluminum	QPSK	25	0	NWXYWTN2R	1:1	0.000	1.153	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.77	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	49	D2XCLWM9RJ	1:1	0.000	1.183	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.88	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	0	D2XCLWM9RJ	1:1	0.000	1.153	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.77	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	49	D2XCLWM9RJ	1:1	0.000	1.183	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.88	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	0	D2XCLWM9RJ	1:1	0.000	1.153	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.77	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	49	D2XCLWM9RJ	1:1	0.000	1.183	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.88	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	0	D2XCLWM9RJ	1:1	0.000	1.153	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.77	0.10	0	Front	10 mm	Titanium	QPSK	1	49	PF2HK6M866	1:1	0.000	1.183	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.88	0.00	1	Front	10 mm	Titanium	QPSK	25	0	PF2HK6M866	1:1	0.000	1.153	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.77	0.00	0	Front	10 mm	Titanium	QPSK	1	49	PF2HK6M866	1:1	0.001	1.183	0.001	A5
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.88	0.06	1	Front	10 mm	Titanium	QPSK	25	0	PF2HK6M866	1:1	0.000	1.153	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.77	0.06	0	Front	10 mm	Titanium	QPSK	1	49	PF2HK6M866	1:1	0.000	1.183	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.88	0.00	1	Front	10 mm	Titanium	QPSK	25	0	PF2HK6M866	1:1	0.000	1.153	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-6
LTE Band 14 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.36	0.06	0	Front	10 mm	Aluminum	QPSK	1	25	NWXYWTN2R	1:1	0.000	1.300	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.31	0.10	1	Front	10 mm	Aluminum	QPSK	25	12	NWXYWTN2R	1:1	0.000	1.315	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.36	0.07	0	Front	10 mm	Aluminum	QPSK	1	25	NWXYWTN2R	1:1	0.002	1.300	0.003	A6
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.31	0.02	1	Front	10 mm	Aluminum	QPSK	25	12	NWXYWTN2R	1:1	0.001	1.315	0.001	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.36	0.00	0	Front	10 mm	Aluminum	QPSK	1	25	NWXYWTN2R	1:1	0.000	1.300	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.31	0.00	1	Front	10 mm	Aluminum	QPSK	25	12	NWXYWTN2R	1:1	0.000	1.315	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.36	-0.10	0	Front	10 mm	Stainless Steel	QPSK	1	25	H919X012VC	1:1	0.000	1.300	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.31	0.03	1	Front	10 mm	Stainless Steel	QPSK	25	12	H919X012VC	1:1	0.000	1.315	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.36	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	25	H919X012VC	1:1	0.000	1.300	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.31	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	12	H919X012VC	1:1	0.000	1.315	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.36	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	25	H919X012VC	1:1	0.000	1.300	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.31	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	12	H919X012VC	1:1	0.000	1.315	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.36	0.10	0	Front	10 mm	Titanium	QPSK	1	25	W14LM2YY40	1:1	0.000	1.300	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.31	0.10	1	Front	10 mm	Titanium	QPSK	25	12	W14LM2YY40	1:1	0.000	1.315	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.36	0.00	0	Front	10 mm	Titanium	QPSK	1	25	W14LM2YY40	1:1	0.000	1.300	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.31	0.10	1	Front	10 mm	Titanium	QPSK	25	12	W14LM2YY40	1:1	0.000	1.315	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.36	0.08	0	Front	10 mm	Titanium	QPSK	1	25	W14LM2YY40	1:1	0.000	1.300	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.31	0.10	1	Front	10 mm	Titanium	QPSK	25	12	W14LM2YY40	1:1	0.000	1.315	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-7
LTE Band 26 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.50	24.30	0.03	0	Front	10 mm	Aluminum	QPSK	1	49	Q0G6P06MDP	1:1	0.002	1.318	0.003	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.50	23.37	-0.02	1	Front	10 mm	Aluminum	QPSK	25	25	Q0G6P06MDP	1:1	0.002	1.297	0.003	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.50	24.30	0.05	0	Front	10 mm	Aluminum	QPSK	1	49	Q0G6P06MDP	1:1	0.002	1.318	0.003	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.50	23.37	0.00	1	Front	10 mm	Aluminum	QPSK	25	25	Q0G6P06MDP	1:1	0.000	1.297	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.30	0.03	0	Front	10 mm	Aluminum	QPSK	1	49	Q0G6P06MDP	1:1	0.003	1.318	0.004	A7
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.37	0.01	1	Front	10 mm	Aluminum	QPSK	25	25	Q0G6P06MDP	1:1	0.002	1.297	0.003	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.50	24.30	0.04	0	Front	10 mm	Stainless Steel	QPSK	1	49	W5T6H669K5	1:1	0.001	1.318	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.50	23.37	0.08	1	Front	10 mm	Stainless Steel	QPSK	25	25	W5T6H669K5	1:1	0.001	1.297	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.50	24.30	0.15	0	Front	10 mm	Stainless Steel	QPSK	1	49	W5T6H669K5	1:1	0.001	1.318	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.50	23.37	0.10	1	Front	10 mm	Stainless Steel	QPSK	25	25	W5T6H669K5	1:1	0.001	1.297	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.30	0.03	0	Front	10 mm	Stainless Steel	QPSK	1	49	W5T6H669K5	1:1	0.001	1.318	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.37	0.04	1	Front	10 mm	Stainless Steel	QPSK	25	25	W5T6H669K5	1:1	0.000	1.297	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.50	24.30	-0.05	0	Front	10 mm	Titanium	QPSK	1	49	FVHK0VJC3V	1:1	0.001	1.318	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.50	23.37	-0.06	1	Front	10 mm	Titanium	QPSK	25	25	FVHK0VJC3V	1:1	0.000	1.297	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.50	24.30	0.19	0	Front	10 mm	Titanium	QPSK	1	49	FVHK0VJC3V	1:1	0.001	1.318	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.50	23.37	-0.09	1	Front	10 mm	Titanium	QPSK	25	25	FVHK0VJC3V	1:1	0.001	1.297	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.30	-0.06	0	Front	10 mm	Titanium	QPSK	1	49	FVHK0VJC3V	1:1	0.001	1.318	0.001	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.37	0.10	1	Front	10 mm	Titanium	QPSK	25	25	FVHK0VJC3V	1:1	0.001	1.297	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-8
LTE Band 5 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.60	0.07	0	Front	10 mm	Aluminum	QPSK	1	49	YX21TF2M4R	1:1	0.002	1.230	0.002	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.70	-0.04	1	Front	10 mm	Aluminum	QPSK	25	25	YX21TF2M4R	1:1	0.002	1.202	0.002	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.60	0.12	0	Front	10 mm	Aluminum	QPSK	1	49	YX21TF2M4R	1:1	0.002	1.230	0.002	A8
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.70	0.02	1	Front	10 mm	Aluminum	QPSK	25	25	YX21TF2M4R	1:1	0.002	1.202	0.002	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.60	0.10	0	Front	10 mm	Aluminum	QPSK	1	49	YX21TF2M4R	1:1	0.000	1.230	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.70	0.00	1	Front	10 mm	Aluminum	QPSK	25	25	YX21TF2M4R	1:1	0.000	1.202	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.60	0.10	0	Front	10 mm	Stainless Steel	QPSK	1	49	D2XCLWM6RJ	1:1	0.000	1.230	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.70	0.10	1	Front	10 mm	Stainless Steel	QPSK	25	25	D2XCLWM6RJ	1:1	0.000	1.202	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.60	0.10	0	Front	10 mm	Stainless Steel	QPSK	1	49	D2XCLWM6RJ	1:1	0.000	1.230	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.70	0.10	1	Front	10 mm	Stainless Steel	QPSK	25	25	D2XCLWM6RJ	1:1	0.000	1.202	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.60	0.10	0	Front	10 mm	Stainless Steel	QPSK	1	49	D2XCLWM6RJ	1:1	0.000	1.230	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.70	0.10	1	Front	10 mm	Stainless Steel	QPSK	25	25	D2XCLWM6RJ	1:1	0.000	1.202	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.60	0.10	0	Front	10 mm	Titanium	QPSK	1	49	KKF6JQY4Y3	1:1	0.000	1.230	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.70	0.12	1	Front	10 mm	Titanium	QPSK	25	25	KKF6JQY4Y3	1:1	0.000	1.202	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.60	0.03	0	Front	10 mm	Titanium	QPSK	1	49	KKF6JQY4Y3	1:1	0.000	1.230	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.70	-0.10	1	Front	10 mm	Titanium	QPSK	25	25	KKF6JQY4Y3	1:1	0.000	1.202	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.60	0.05	0	Front	10 mm	Titanium	QPSK	1	49	KKF6JQY4Y3	1:1	0.001	1.230	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.70	0.03	1	Front	10 mm	Titanium	QPSK	25	25	KKF6JQY4Y3	1:1	0.000	1.202	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-9
LTE Band 66 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.33	0.09	0	Front	10 mm	Aluminum	QPSK	1	99	FVWVGJ196K	1:1	0.140	1.309	0.183	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.80	-0.02	1	Front	10 mm	Aluminum	QPSK	50	50	FVWVGJ196K	1:1	0.120	1.175	0.141	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.33	-0.19	0	Front	10 mm	Aluminum	QPSK	1	99	FVWVGJ196K	1:1	0.252	1.309	0.330	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.80	-0.03	1	Front	10 mm	Aluminum	QPSK	50	50	FVWVGJ196K	1:1	0.214	1.175	0.251	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.33	-0.10	0	Front	10 mm	Aluminum	QPSK	1	99	FVWVGJ196K	1:1	0.223	1.309	0.292	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.80	-0.14	1	Front	10 mm	Aluminum	QPSK	50	50	FVWVGJ196K	1:1	0.191	1.175	0.224	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.33	-0.01	0	Front	10 mm	Stainless Steel	QPSK	1	99	H919X012VC	1:1	0.143	1.309	0.187	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.80	0.03	1	Front	10 mm	Stainless Steel	QPSK	50	50	H919X012VC	1:1	0.127	1.175	0.149	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.33	-0.03	0	Front	10 mm	Stainless Steel	QPSK	1	99	H919X012VC	1:1	0.244	1.309	0.319	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.80	-0.04	1	Front	10 mm	Stainless Steel	QPSK	50	50	H919X012VC	1:1	0.202	1.175	0.237	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.33	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	99	H919X012VC	1:1	0.283	1.309	0.370	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.80	-0.10	1	Front	10 mm	Stainless Steel	QPSK	50	50	H919X012VC	1:1	0.236	1.175	0.277	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.33	-0.10	0	Front	10 mm	Titanium	QPSK	1	99	Y09C9Y7XKN	1:1	0.140	1.309	0.183	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.80	-0.05	1	Front	10 mm	Titanium	QPSK	50	50	Y09C9Y7XKN	1:1	0.118	1.175	0.139	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.33	0.00	0	Front	10 mm	Titanium	QPSK	1	99	Y09C9Y7XKN	1:1	0.263	1.309	0.344	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.80	0.02	1	Front	10 mm	Titanium	QPSK	50	50	Y09C9Y7XKN	1:1	0.219	1.175	0.257	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.33	-0.09	0	Front	10 mm	Titanium	QPSK	1	99	Y09C9Y7XKN	1:1	0.267	1.309	0.350	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.80	-0.08	1	Front	10 mm	Titanium	QPSK	50	50	Y09C9Y7XKN	1:1	0.229	1.175	0.269	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-10
LTE Band 25 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.50	23.67	0.02	0	Front	10 mm	Aluminum	QPSK	1	0	QWVGJK4M/34	1:1	0.129	1.211	0.156	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.50	22.66	0.07	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1:1	0.107	1.213	0.130	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.50	23.67	-0.03	0	Front	10 mm	Aluminum	QPSK	1	0	QWVGJK4M/34	1:1	0.258	1.211	0.312	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.50	22.66	0.00	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1:1	0.208	1.213	0.252	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.67	-0.15	0	Front	10 mm	Aluminum	QPSK	1	0	QWVGJK4M/34	1:1	0.308	1.211	0.373	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.66	0.00	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1:1	0.250	1.213	0.303	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.50	23.67	-0.01	0	Front	10 mm	Stainless Steel	QPSK	1	0	H919X012VC	1:1	0.146	1.211	0.177	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.50	22.66	0.02	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1:1	0.122	1.213	0.148	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.50	23.67	-0.03	0	Front	10 mm	Stainless Steel	QPSK	1	0	H919X012VC	1:1	0.196	1.211	0.237	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.50	22.66	0.09	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1:1	0.163	1.213	0.198	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.67	0.03	0	Front	10 mm	Stainless Steel	QPSK	1	0	H919X012VC	1:1	0.365	1.211	0.442	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.66	0.03	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1:1	0.313	1.213	0.380	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.50	23.67	-0.03	0	Front	10 mm	Titanium	QPSK	1	0	NYJ57CTW3J	1:1	0.163	1.211	0.197	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.50	22.66	-0.02	1	Front	10 mm	Titanium	QPSK	50	0	NYJ57CTW3J	1:1	0.146	1.213	0.177	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.50	23.67	0.01	0	Front	10 mm	Titanium	QPSK	1	0	NYJ57CTW3J	1:1	0.251	1.211	0.304	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.50	22.66	0.00	1	Front	10 mm	Titanium	QPSK	50	0	NYJ57CTW3J	1:1	0.203	1.213	0.246	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.67	-0.11	0	Front	10 mm	Titanium	QPSK	1	0	NYJ57CTW3J	1:1	0.398	1.211	0.482	A10
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.66	0.02	1	Front	10 mm	Titanium	QPSK	50	0	NYJ57CTW3J	1:1	0.319	1.213	0.387	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: BCG-A2475	 Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N: 1C2106070043-22.BCG (Rev 1)	Test Dates: 06/18/2021 – 08/19/2021	DUT Type: Watch	Page 40 of 64

Table 10-11
LTE Band 7 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2510.00	20850	Low	LTE Band 7	20	Sport	23.50	22.36	-0.06	0	Front	10 mm	Aluminum	QPSK	1	0	QWVGJK4M/34	1:1	0.827	1.300	1.075	A11
2535.00	21100	Mid	LTE Band 7	20	Sport	23.50	22.23	0.00	0	Front	10 mm	Aluminum	QPSK	1	0	QWVGJK4M/34	1:1	0.708	1.340	0.949	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	21.96	-0.14	0	Front	10 mm	Aluminum	QPSK	1	50	QWVGJK4M/34	1:1	0.775	1.426	1.105	
2510.00	20850	Low	LTE Band 7	20	Sport	22.50	21.25	-0.10	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1:1	0.561	1.334	0.748	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.16	-0.09	1	Front	10 mm	Aluminum	QPSK	100	0	QWVGJK4M/34	1:1	0.651	1.361	0.886	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.50	22.36	-0.11	0	Front	10 mm	Aluminum	QPSK	1	0	QWVGJK4M/34	1:1	0.481	1.300	0.625	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.50	21.25	-0.06	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1:1	0.343	1.334	0.458	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.50	22.36	-0.08	0	Front	10 mm	Aluminum	QPSK	1	0	QWVGJK4M/34	1:1	0.516	1.300	0.671	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.50	21.25	-0.11	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1:1	0.366	1.334	0.488	
2510.00	20850	Low	LTE Band 7	20	Sport	23.50	22.36	-0.12	0	Front	10 mm	Stainless Steel	QPSK	1	0	H919X012VC	1:1	0.813	1.300	1.057	
2535.00	21100	Mid	LTE Band 7	20	Sport	23.50	22.23	0.02	0	Front	10 mm	Stainless Steel	QPSK	1	0	H919X012VC	1:1	0.815	1.340	1.092	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	21.96	-0.15	0	Front	10 mm	Stainless Steel	QPSK	1	50	H919X012VC	1:1	0.745	1.426	1.062	
2510.00	20850	Low	LTE Band 7	20	Sport	22.50	21.25	0.10	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1:1	0.700	1.334	0.934	
2535.00	21100	Mid	LTE Band 7	20	Sport	22.50	21.16	-0.11	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1:1	0.617	1.361	0.840	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.05	-0.09	1	Front	10 mm	Stainless Steel	QPSK	50	25	H919X012VC	1:1	0.488	1.396	0.681	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.16	-0.09	1	Front	10 mm	Stainless Steel	QPSK	100	0	H919X012VC	1:1	0.513	1.361	0.698	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.50	22.36	-0.04	0	Front	10 mm	Stainless Steel	QPSK	1	0	H919X012VC	1:1	0.529	1.300	0.688	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.50	21.25	-0.16	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1:1	0.413	1.334	0.551	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.50	22.36	-0.04	0	Front	10 mm	Stainless Steel	QPSK	1	0	H919X012VC	1:1	0.612	1.300	0.796	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.50	21.25	-0.02	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1:1	0.483	1.334	0.644	
2510.00	20850	Low	LTE Band 7	20	Sport	23.50	22.36	-0.03	0	Front	10 mm	Titanium	QPSK	1	0	Y09C9Y7XKN	1:1	0.796	1.300	1.035	
2535.00	21100	Mid	LTE Band 7	20	Sport	23.50	22.23	-0.05	0	Front	10 mm	Titanium	QPSK	1	0	Y09C9Y7XKN	1:1	0.697	1.340	0.934	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	21.96	-0.02	0	Front	10 mm	Titanium	QPSK	1	50	Y09C9Y7XKN	1:1	0.634	1.426	0.904	
2510.00	20850	Low	LTE Band 7	20	Sport	22.50	21.25	-0.04	1	Front	10 mm	Titanium	QPSK	50	0	Y09C9Y7XKN	1:1	0.523	1.334	0.698	
2535.00	21100	Mid	LTE Band 7	20	Sport	22.50	21.16	-0.04	1	Front	10 mm	Titanium	QPSK	50	0	Y09C9Y7XKN	1:1	0.325	1.361	0.442	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.05	-0.03	1	Front	10 mm	Titanium	QPSK	50	25	Y09C9Y7XKN	1:1	0.403	1.396	0.563	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.16	-0.20	1	Front	10 mm	Titanium	QPSK	100	0	Y09C9Y7XKN	1:1	0.411	1.361	0.559	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.50	22.36	-0.02	0	Front	10 mm	Titanium	QPSK	1	0	Y09C9Y7XKN	1:1	0.280	1.300	0.364	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.50	21.25	-0.03	1	Front	10 mm	Titanium	QPSK	50	0	Y09C9Y7XKN	1:1	0.194	1.334	0.259	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.50	22.36	-0.08	0	Front	10 mm	Titanium	QPSK	1	0	Y09C9Y7XKN	1:1	0.400	1.300	0.520	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.50	21.25	-0.06	1	Front	10 mm	Titanium	QPSK	50	0	Y09C9Y7XKN	1:1	0.379	1.334	0.506	
2510.00	20850	Low	LTE Band 7	20	Sport	23.50	22.36	-0.02	0	Front	10 mm	Aluminum	QPSK	1	0	QWVGJK4M/34	1:1	0.729	1.300	0.948	
2535.00	21100	Mid	LTE Band 7	20	Sport	23.5	22.23	-0.14	0	Front	10 mm	Stainless Steel	QPSK	1	0	H919X012VC	1:1	0.804	1.340	1.077	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Note: Blue entry represents variability measurement.

FCC ID: BCG-A2475	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
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Table 10-12
LTE Band 41 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Spacing	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2680.00	41490	High	LTE Band 41	20	Sport	23.50	22.53	-0.10	0	Front	10 mm	Aluminum	QPSK	1	50	QWVGJK4M/34	1.1.58	0.185	1.250	0.231	
2680.00	41490	High	LTE Band 41	20	Sport	22.50	21.42	0.12	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1.1.58	0.150	1.282	0.192	
2680.00	41490	High	LTE Band 41	20	Metal Links	23.50	22.53	-0.15	0	Front	10 mm	Aluminum	QPSK	1	50	QWVGJK4M/34	1.1.58	0.211	1.250	0.264	
2680.00	41490	High	LTE Band 41	20	Metal Links	22.50	21.42	-0.16	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1.1.58	0.155	1.282	0.199	
2680.00	41490	High	LTE Band 41	20	Metal Loop	23.50	22.53	-0.12	0	Front	10 mm	Aluminum	QPSK	1	50	QWVGJK4M/34	1.1.58	0.157	1.250	0.196	
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.50	21.42	0.08	1	Front	10 mm	Aluminum	QPSK	50	0	QWVGJK4M/34	1.1.58	0.123	1.282	0.158	
2680.00	41490	High	LTE Band 41	20	Sport	23.50	22.53	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	50	H919X012VC	1.1.58	0.376	1.250	0.470	A12
2680.00	41490	High	LTE Band 41	20	Sport	22.50	21.42	-0.01	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1.1.58	0.286	1.282	0.367	
2680.00	41490	High	LTE Band 41	20	Metal Links	23.50	22.53	0.01	0	Front	10 mm	Stainless Steel	QPSK	1	50	H919X012VC	1.1.58	0.242	1.250	0.303	
2680.00	41490	High	LTE Band 41	20	Metal Links	22.50	21.42	0.05	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1.1.58	0.185	1.282	0.237	
2680.00	41490	High	LTE Band 41	20	Metal Loop	23.50	22.53	0.01	0	Front	10 mm	Stainless Steel	QPSK	1	50	H919X012VC	1.1.58	0.182	1.250	0.228	
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.50	21.42	0.13	1	Front	10 mm	Stainless Steel	QPSK	50	0	H919X012VC	1.1.58	0.142	1.282	0.182	
2680.00	41490	High	LTE Band 41	20	Sport	23.50	22.53	0.01	0	Front	10 mm	Titanium	QPSK	1	50	NYJ57CTW3J	1.1.58	0.191	1.250	0.239	
2680.00	41490	High	LTE Band 41	20	Sport	22.50	21.42	-0.07	1	Front	10 mm	Titanium	QPSK	50	0	NYJ57CTW3J	1.1.58	0.177	1.282	0.227	
2680.00	41490	High	LTE Band 41	20	Metal Links	23.50	22.53	0.01	0	Front	10 mm	Titanium	QPSK	1	50	NYJ57CTW3J	1.1.58	0.185	1.250	0.231	
2680.00	41490	High	LTE Band 41	20	Metal Links	22.50	21.42	0.05	1	Front	10 mm	Titanium	QPSK	50	0	NYJ57CTW3J	1.1.58	0.142	1.282	0.182	
2680.00	41490	High	LTE Band 41	20	Metal Loop	23.50	22.53	0.05	0	Front	10 mm	Titanium	QPSK	1	50	NYJ57CTW3J	1.1.58	0.184	1.250	0.230	
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.50	21.42	0.12	1	Front	10 mm	Titanium	QPSK	50	0	NYJ57CTW3J	1.1.58	0.143	1.282	0.183	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-13
2.4 GHz WLAN Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.03	Front	10 mm	Aluminum	Sport	QWGGK4M/34	1	99.7	0.250	1.186	1.003	0.297	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.06	Front	10 mm	Aluminum	Metal Link	QWGGK4M/34	1	99.7	0.155	1.186	1.003	0.184	
2462	11	802.11b	DSSS	22	19.00	18.26	0.01	Front	10 mm	Aluminum	Metal Loop	QWGGK4M/34	1	99.7	0.179	1.186	1.003	0.213	
2462	11	802.11b	DSSS	22	19.00	18.26	0.06	Front	10 mm	Stainless Steel	Sport	DYXLM7F7RL	1	99.7	0.272	1.186	1.003	0.324	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.01	Front	10 mm	Stainless Steel	Metal Link	DYXLM7F7RL	1	99.7	0.177	1.186	1.003	0.211	
2462	11	802.11b	DSSS	22	19.00	18.26	0.01	Front	10 mm	Stainless Steel	Metal Loop	DYXLM7F7RL	1	99.7	0.179	1.186	1.003	0.213	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.08	Front	10 mm	Titanium	Sport	X30GF00WKW	1	99.7	0.288	1.186	1.003	0.343	A13
2462	11	802.11b	DSSS	22	19.00	18.26	-0.05	Front	10 mm	Titanium	Metal Link	X30GF00WKW	1	99.7	0.146	1.186	1.003	0.174	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.05	Front	10 mm	Titanium	Metal Loop	X30GF00WKW	1	99.7	0.174	1.186	1.003	0.207	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 10-14
5 GHz WLAN Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
5300	60	802.11a	OFDM	20	17.00	16.16	0.05	Front	10 mm	Aluminum	Sport	Q19JV7J1QP	6	97.5	0.034	1.213	1.026	0.042	
5300	60	802.11a	OFDM	20	17.00	16.16	0.03	Front	10 mm	Aluminum	Metal Link	Q19JV7J1QP	6	97.5	0.039	1.213	1.026	0.049	
5300	60	802.11a	OFDM	20	17.00	16.16	0.13	Front	10 mm	Aluminum	Metal Loop	Q19JV7J1QP	6	97.5	0.013	1.213	1.026	0.016	
5300	60	802.11a	OFDM	20	17.00	16.16	0.17	Front	10 mm	Stainless Steel	Sport	W5T6H669K5	6	97.5	0.041	1.213	1.026	0.051	
5300	60	802.11a	OFDM	20	17.00	16.16	0.05	Front	10 mm	Stainless Steel	Metal Link	W5T6H669K5	6	97.5	0.033	1.213	1.026	0.041	
5300	60	802.11a	OFDM	20	17.00	16.16	0.06	Front	10 mm	Stainless Steel	Metal Loop	W5T6H669K5	6	97.5	0.038	1.213	1.026	0.047	
5300	60	802.11a	OFDM	20	17.00	16.16	0.02	Front	10 mm	Titanium	Sport	KKF6JQY4Y3	6	97.5	0.043	1.213	1.026	0.054	
5300	60	802.11a	OFDM	20	17.00	16.16	0.06	Front	10 mm	Titanium	Metal Link	KKF6JQY4Y3	6	97.5	0.030	1.213	1.026	0.037	
5300	60	802.11a	OFDM	20	17.00	16.16	0.05	Front	10 mm	Titanium	Metal Loop	KKF6JQY4Y3	6	97.5	0.033	1.213	1.026	0.041	
5600	120	802.11a	OFDM	20	17.00	16.17	0.09	Front	10 mm	Aluminum	Sport	Q19JV7J1QP	6	97.5	0.045	1.211	1.026	0.056	
5600	120	802.11a	OFDM	20	17.00	16.17	0.04	Front	10 mm	Aluminum	Metal Link	Q19JV7J1QP	6	97.5	0.042	1.211	1.026	0.052	
5600	120	802.11a	OFDM	20	17.00	16.17	0.07	Front	10 mm	Aluminum	Metal Loop	Q19JV7J1QP	6	97.5	0.038	1.211	1.026	0.047	
5600	120	802.11a	OFDM	20	17.00	16.17	0.03	Front	10 mm	Stainless Steel	Sport	WR6JJRPYX5	6	97.5	0.030	1.211	1.026	0.037	
5600	120	802.11a	OFDM	20	17.00	16.17	0.14	Front	10 mm	Stainless Steel	Metal Link	WR6JJRPYX5	6	97.5	0.025	1.211	1.026	0.031	
5600	120	802.11a	OFDM	20	17.00	16.17	0.04	Front	10 mm	Stainless Steel	Metal Loop	WR6JJRPYX5	6	97.5	0.027	1.211	1.026	0.034	
5600	120	802.11a	OFDM	20	17.00	16.17	0.11	Front	10 mm	Titanium	Sport	KKF6JQY4Y3	6	97.5	0.024	1.211	1.026	0.030	
5600	120	802.11a	OFDM	20	17.00	16.17	0.10	Front	10 mm	Titanium	Metal Link	KKF6JQY4Y3	6	97.5	0.020	1.211	1.026	0.025	
5600	120	802.11a	OFDM	20	17.00	16.17	0.03	Front	10 mm	Titanium	Metal Loop	KKF6JQY4Y3	6	97.5	0.026	1.211	1.026	0.032	
5745	149	802.11a	OFDM	20	17.00	16.13	0.12	Front	10 mm	Aluminum	Sport	Q0G6P06MDP	6	97.5	0.025	1.222	1.026	0.031	
5745	149	802.11a	OFDM	20	17.00	16.13	0.06	Front	10 mm	Aluminum	Metal Link	Q0G6P06MDP	6	97.5	0.033	1.222	1.026	0.041	
5745	149	802.11a	OFDM	20	17.00	16.13	0.09	Front	10 mm	Aluminum	Metal Loop	Q0G6P06MDP	6	97.5	0.027	1.222	1.026	0.034	
5745	149	802.11a	OFDM	20	17.00	16.13	0.02	Front	10 mm	Stainless Steel	Sport	L2J2QVXGK6	6	97.5	0.052	1.222	1.026	0.065	
5745	149	802.11a	OFDM	20	17.00	16.13	0.20	Front	10 mm	Stainless Steel	Metal Link	L2J2QVXGK6	6	97.5	0.061	1.222	1.026	0.076	A14
5745	149	802.11a	OFDM	20	17.00	16.13	0.16	Front	10 mm	Stainless Steel	Metal Loop	L2J2QVXGK6	6	97.5	0.060	1.222	1.026	0.075	
5745	149	802.11a	OFDM	20	17.00	16.13	0.03	Front	10 mm	Titanium	Sport	FVHK0VJC3V	6	97.5	0.035	1.222	1.026	0.044	
5745	149	802.11a	OFDM	20	17.00	16.13	0.10	Front	10 mm	Titanium	Metal Link	FVHK0VJC3V	6	97.5	0.031	1.222	1.026	0.039	
5745	149	802.11a	OFDM	20	17.00	16.13	0.03	Front	10 mm	Titanium	Metal Loop	FVHK0VJC3V	6	97.5	0.025	1.222	1.026	0.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Head											
Spatial Peak								1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 1 gram											

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Table 10-15
Bluetooth Head SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2480.00	78	Bluetooth	FHSS	13.00	11.92	-0.15	Front	10 mm	Aluminum	Sport	QWGJK4MV34	1	100	0.094	1.282	1.000	0.121	A15
2480.00	78	Bluetooth	FHSS	13.00	11.92	0.00	Front	10 mm	Aluminum	Metal Links	QWGJK4MV34	1	100	0.064	1.282	1.000	0.082	
2480.00	78	Bluetooth	FHSS	13.00	11.92	-0.02	Front	10 mm	Aluminum	Metal Loop	QWGJK4MV34	1	100	0.054	1.282	1.000	0.069	
2480.00	78	Bluetooth	FHSS	13.00	11.92	0.06	Front	10 mm	Stainless Steel	Sport	QGYF9R2W3X	1	100	0.082	1.282	1.000	0.105	
2480.00	78	Bluetooth	FHSS	13.00	11.92	0.02	Front	10 mm	Stainless Steel	Metal Links	QGYF9R2W3X	1	100	0.046	1.282	1.000	0.059	
2480.00	78	Bluetooth	FHSS	13.00	11.92	0.01	Front	10 mm	Stainless Steel	Metal Loop	QGYF9R2W3X	1	100	0.053	1.282	1.000	0.068	
2480.00	78	Bluetooth	FHSS	13.00	11.92	0.06	Front	10 mm	Titanium	Sport	Y09C9Y7XKN	1	100	0.054	1.282	1.000	0.069	
2480.00	78	Bluetooth	FHSS	13.00	11.92	0.06	Front	10 mm	Titanium	Metal Links	Y09C9Y7XKN	1	100	0.038	1.282	1.000	0.049	
2480.00	78	Bluetooth	FHSS	13.00	11.92	0.11	Front	10 mm	Titanium	Metal Loop	Y09C9Y7XKN	1	100	0.028	1.282	1.000	0.036	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram											

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10.2 Standalone Extremity SAR Data

Table 10-16
UMTS 850 Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	Side	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)	(W/kg)	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.02	0 mm	Aluminum	Sport	VJ92MGWVQW	1:1	back	1.245	0.014	0.017	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.06	0 mm	Aluminum	Metal Links	VJ92MGWVQW	1:1	back	1.245	0.025	0.031	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.03	0 mm	Aluminum	Metal Loop	VJ92MGWVQW	1:1	back	1.245	0.019	0.024	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.12	0 mm	Stainless Steel	Sport	H919X012VC	1:1	back	1.245	0.011	0.014	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.06	0 mm	Stainless Steel	Metal Links	H919X012VC	1:1	back	1.245	0.024	0.030	
836.60	4183	UMTS 850	RMC	25.00	24.05	0.06	0 mm	Stainless Steel	Metal Loop	H919X012VC	1:1	back	1.245	0.019	0.024	
836.60	4183	UMTS 850	RMC	25.00	24.05	-0.15	0 mm	Titanium	Sport	QQX7LDF02F	1:1	back	1.245	0.051	0.063	
836.60	4183	UMTS 850	RMC	25.00	24.05	-0.08	0 mm	Titanium	Metal Links	QQX7LDF02F	1:1	back	1.245	0.090	0.112	A16
836.60	4183	UMTS 850	RMC	25.00	24.05	0.00	0 mm	Titanium	Metal Loop	QQX7LDF02F	1:1	back	1.245	0.083	0.103	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

Table 10-17
UMTS 1750 Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	Side	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)	(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.03	0 mm	Aluminum	Sport	FVWWGJ196K	1:1	back	1.247	0.019	0.024	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	0.03	0 mm	Aluminum	Metal Links	FVWWGJ196K	1:1	back	1.247	0.116	0.145	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	0.01	0 mm	Aluminum	Metal Loop	FVWWGJ196K	1:1	back	1.247	0.083	0.104	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.03	0 mm	Stainless Steel	Sport	H919X012VC	1:1	back	1.247	0.023	0.029	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.15	0 mm	Stainless Steel	Metal Links	H919X012VC	1:1	back	1.247	0.065	0.081	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.02	0 mm	Stainless Steel	Metal Loop	H919X012VC	1:1	back	1.247	0.062	0.077	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.14	0 mm	Titanium	Sport	NYJ57CTW3J	1:1	back	1.247	0.020	0.025	
1732.40	1412	UMTS 1750	RMC	24.00	23.04	0.14	0 mm	Titanium	Metal Links	NYJ57CTW3J	1:1	back	1.247	0.157	0.196	A17
1732.40	1412	UMTS 1750	RMC	24.00	23.04	-0.02	0 mm	Titanium	Metal Loop	NYJ57CTW3J	1:1	back	1.247	0.059	0.074	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

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Table 10-18
UMTS 1900 Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	Side	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)	(W/kg)	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.11	0 mm	Aluminum	Sport	FVWVGJ196K	1:1	back	1.247	0.070	0.087	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	-0.02	0 mm	Aluminum	Metal Links	FVWVGJ196K	1:1	back	1.247	0.146	0.182	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	-0.07	0 mm	Aluminum	Metal Loop	FVWVGJ196K	1:1	back	1.247	0.107	0.133	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.06	0 mm	Stainless Steel	Sport	W5T6H669K5	1:1	back	1.247	0.035	0.044	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.15	0 mm	Stainless Steel	Metal Links	W5T6H669K5	1:1	back	1.247	0.043	0.054	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.13	0 mm	Stainless Steel	Metal Loop	W5T6H669K5	1:1	back	1.247	0.066	0.082	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.04	0 mm	Titanium	Sport	PF2HK6M366	1:1	back	1.247	0.056	0.070	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.10	0 mm	Titanium	Metal Links	PF2HK6M366	1:1	back	1.247	0.130	0.162	
1880.00	9400	UMTS 1900	RMC	24.00	23.04	0.10	0 mm	Titanium	Metal Loop	PF2HK6M366	1:1	back	1.247	0.244	0.304	A18
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

Table 10-19
LTE Band 12 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.75	0.05	0	Aluminum	FVWVGJ196K	QPSK	1	25	0 mm	back	1:1	1.189	0.047	0.056	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.86	0.05	1	Aluminum	FVWVGJ196K	QPSK	25	0	0 mm	back	1:1	1.159	0.036	0.042	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.75	0.09	0	Aluminum	FVWVGJ196K	QPSK	1	25	0 mm	back	1:1	1.189	0.056	0.067	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.86	0.12	1	Aluminum	FVWVGJ196K	QPSK	25	0	0 mm	back	1:1	1.159	0.042	0.049	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.75	0.14	0	Aluminum	FVWVGJ196K	QPSK	1	25	0 mm	back	1:1	1.189	0.042	0.050	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.86	0.10	1	Aluminum	FVWVGJ196K	QPSK	25	0	0 mm	back	1:1	1.159	0.031	0.036	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.75	0.03	0	Stainless Steel	QGYF9R2W3X	QPSK	1	25	0 mm	back	1:1	1.189	0.055	0.065	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.86	0.03	1	Stainless Steel	QGYF9R2W3X	QPSK	25	0	0 mm	back	1:1	1.159	0.042	0.049	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.75	-0.01	0	Stainless Steel	QGYF9R2W3X	QPSK	1	25	0 mm	back	1:1	1.189	0.087	0.103	A19
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.86	0.02	1	Stainless Steel	QGYF9R2W3X	QPSK	25	0	0 mm	back	1:1	1.159	0.069	0.080	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.75	0.08	0	Stainless Steel	QGYF9R2W3X	QPSK	1	25	0 mm	back	1:1	1.189	0.081	0.096	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.86	0.07	1	Stainless Steel	QGYF9R2W3X	QPSK	25	0	0 mm	back	1:1	1.159	0.062	0.072	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.75	0.08	0	Titanium	W14LM2YY40	QPSK	1	25	0 mm	back	1:1	1.189	0.064	0.076	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.86	0.12	1	Titanium	W14LM2YY40	QPSK	25	0	0 mm	back	1:1	1.159	0.048	0.056	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.75	0.05	0	Titanium	W14LM2YY40	QPSK	1	25	0 mm	back	1:1	1.189	0.081	0.096	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.86	0.05	1	Titanium	W14LM2YY40	QPSK	25	0	0 mm	back	1:1	1.159	0.062	0.072	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.75	0.17	0	Titanium	W14LM2YY40	QPSK	1	25	0 mm	back	1:1	1.189	0.055	0.065	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.86	0.03	1	Titanium	W14LM2YY40	QPSK	25	0	0 mm	back	1:1	1.159	0.042	0.049	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 10-20
LTE Band 13 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.77	0.03	0	Aluminum	VJ92MGWVQW	QPSK	1	49	0 mm	back	1:1	1.183	0.092	0.109	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.88	0.03	1	Aluminum	VJ92MGWVQW	QPSK	25	0	0 mm	back	1:1	1.153	0.072	0.083	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.77	0.15	0	Aluminum	VJ92MGWVQW	QPSK	1	49	0 mm	back	1:1	1.183	0.180	0.213	A20
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.88	0.03	1	Aluminum	VJ92MGWVQW	QPSK	25	0	0 mm	back	1:1	1.153	0.121	0.140	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.77	0.09	0	Aluminum	VJ92MGWVQW	QPSK	1	49	0 mm	back	1:1	1.183	0.137	0.162	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.88	0.05	1	Aluminum	VJ92MGWVQW	QPSK	25	0	0 mm	back	1:1	1.153	0.101	0.116	
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.77	0.10	0	Stainless Steel	DYXLM7F7RL	QPSK	1	49	0 mm	back	1:1	1.183	0.086	0.102	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.88	0.11	1	Stainless Steel	DYXLM7F7RL	QPSK	25	0	0 mm	back	1:1	1.153	0.068	0.078	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.77	0.11	0	Stainless Steel	DYXLM7F7RL	QPSK	1	49	0 mm	back	1:1	1.183	0.132	0.156	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.88	0.17	1	Stainless Steel	DYXLM7F7RL	QPSK	25	0	0 mm	back	1:1	1.153	0.119	0.137	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.77	0.04	0	Stainless Steel	DYXLM7F7RL	QPSK	1	49	0 mm	back	1:1	1.183	0.129	0.153	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.88	0.02	1	Stainless Steel	DYXLM7F7RL	QPSK	25	0	0 mm	back	1:1	1.153	0.087	0.100	
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.77	0.08	0	Titanium	Y09C9Y7XKN	QPSK	1	49	0 mm	back	1:1	1.183	0.096	0.114	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.88	0.11	1	Titanium	Y09C9Y7XKN	QPSK	25	0	0 mm	back	1:1	1.153	0.074	0.085	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.77	0.03	0	Titanium	Y09C9Y7XKN	QPSK	1	49	0 mm	back	1:1	1.183	0.146	0.173	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.88	0.03	1	Titanium	Y09C9Y7XKN	QPSK	25	0	0 mm	back	1:1	1.153	0.121	0.140	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.77	0.04	0	Titanium	Y09C9Y7XKN	QPSK	1	49	0 mm	back	1:1	1.183	0.145	0.172	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.88	0.06	1	Titanium	Y09C9Y7XKN	QPSK	25	0	0 mm	back	1:1	1.153	0.130	0.150	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Extremity												
Spatial Peak									4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 10 grams												

Table 10-21
LTE Band 14 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.36	0.10	0	Aluminum	HK7NX0N6WW	QPSK	1	25	0 mm	back	1:1	1.300	0.076	0.099	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.31	0.12	1	Aluminum	HK7NX0N6WW	QPSK	25	12	0 mm	back	1:1	1.315	0.057	0.075	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.36	0.05	0	Aluminum	HK7NX0N6WW	QPSK	1	25	0 mm	back	1:1	1.300	0.127	0.165	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.31	0.04	1	Aluminum	HK7NX0N6WW	QPSK	25	12	0 mm	back	1:1	1.315	0.100	0.132	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.36	0.00	0	Aluminum	HK7NX0N6WW	QPSK	1	25	0 mm	back	1:1	1.300	0.130	0.169	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.31	0.03	1	Aluminum	HK7NX0N6WW	QPSK	25	12	0 mm	back	1:1	1.315	0.108	0.142	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.36	0.16	0	Stainless Steel	D2XCLWM8RJ	QPSK	1	25	0 mm	back	1:1	1.300	0.074	0.096	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.31	0.11	1	Stainless Steel	D2XCLWM8RJ	QPSK	25	12	0 mm	back	1:1	1.315	0.055	0.072	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.36	0.03	0	Stainless Steel	D2XCLWM8RJ	QPSK	1	25	0 mm	back	1:1	1.300	0.170	0.221	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.31	0.19	1	Stainless Steel	D2XCLWM8RJ	QPSK	25	12	0 mm	back	1:1	1.315	0.140	0.184	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.36	0.03	0	Stainless Steel	D2XCLWM8RJ	QPSK	1	25	0 mm	back	1:1	1.300	0.172	0.224	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.31	-0.10	1	Stainless Steel	D2XCLWM8RJ	QPSK	25	12	0 mm	back	1:1	1.315	0.138	0.181	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.36	0.07	0	Titanium	W14LM2YY40	QPSK	1	25	0 mm	back	1:1	1.300	0.071	0.092	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.31	0.05	1	Titanium	W14LM2YY40	QPSK	25	12	0 mm	back	1:1	1.315	0.054	0.071	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.36	-0.09	0	Titanium	W14LM2YY40	QPSK	1	25	0 mm	back	1:1	1.300	0.154	0.200	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.31	0.01	1	Titanium	W14LM2YY40	QPSK	25	12	0 mm	back	1:1	1.315	0.120	0.158	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.36	0.04	0	Titanium	W14LM2YY40	QPSK	1	25	0 mm	back	1:1	1.300	0.252	0.328	A21
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.31	0.19	1	Titanium	W14LM2YY40	QPSK	25	12	0 mm	back	1:1	1.315	0.190	0.250	
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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Table 10-22
LTE Band 26 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.50	24.30	0.16	0	Aluminum	Q0G6P06MDP	QPSK	1	49	0 mm	back	1:1	1.318	0.062	0.082	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.50	23.37	0.17	1	Aluminum	Q0G6P06MDP	QPSK	25	25	0 mm	back	1:1	1.297	0.048	0.062	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.50	24.30	0.00	0	Aluminum	Q0G6P06MDP	QPSK	1	49	0 mm	back	1:1	1.318	0.099	0.130	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.50	23.37	0.04	1	Aluminum	Q0G6P06MDP	QPSK	25	25	0 mm	back	1:1	1.297	0.094	0.122	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.30	-0.07	0	Aluminum	Q0G6P06MDP	QPSK	1	49	0 mm	back	1:1	1.318	0.094	0.124	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.37	0.02	1	Aluminum	Q0G6P06MDP	QPSK	25	25	0 mm	back	1:1	1.297	0.073	0.095	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.50	24.30	-0.05	0	Stainless Steel	L2J2QVXGK6	QPSK	1	49	0 mm	back	1:1	1.318	0.058	0.076	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.50	23.37	0.13	1	Stainless Steel	L2J2QVXGK6	QPSK	25	25	0 mm	back	1:1	1.297	0.049	0.064	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.50	24.30	0.20	0	Stainless Steel	L2J2QVXGK6	QPSK	1	49	0 mm	back	1:1	1.318	0.104	0.137	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.50	23.37	0.03	1	Stainless Steel	L2J2QVXGK6	QPSK	25	25	0 mm	back	1:1	1.297	0.083	0.108	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.30	0.09	0	Stainless Steel	L2J2QVXGK6	QPSK	1	49	0 mm	back	1:1	1.318	0.079	0.104	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.37	0.08	1	Stainless Steel	L2J2QVXGK6	QPSK	25	25	0 mm	back	1:1	1.297	0.061	0.079	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.50	24.30	0.00	0	Titanium	Y09C9Y7XKN	QPSK	1	49	0 mm	back	1:1	1.318	0.061	0.080	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.50	23.37	0.07	1	Titanium	Y09C9Y7XKN	QPSK	25	25	0 mm	back	1:1	1.297	0.054	0.070	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.50	24.30	0.03	0	Titanium	Y09C9Y7XKN	QPSK	1	49	0 mm	back	1:1	1.318	0.106	0.140	A22
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.50	23.37	0.07	1	Titanium	Y09C9Y7XKN	QPSK	25	25	0 mm	back	1:1	1.297	0.087	0.113	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.30	-0.10	0	Titanium	Y09C9Y7XKN	QPSK	1	49	0 mm	back	1:1	1.318	0.101	0.133	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.37	0.02	1	Titanium	Y09C9Y7XKN	QPSK	25	25	0 mm	back	1:1	1.297	0.065	0.084	
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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Table 10-23
LTE Band 5 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.60	0.02	0	Aluminum	VJ92MGWVQW	QPSK	1	49	0 mm	back	1:1	1.230	0.054	0.066	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.70	0.14	1	Aluminum	VJ92MGWVQW	QPSK	25	25	0 mm	back	1:1	1.202	0.043	0.052	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.60	0.00	0	Aluminum	VJ92MGWVQW	QPSK	1	49	0 mm	back	1:1	1.230	0.113	0.139	A23
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.70	0.17	1	Aluminum	VJ92MGWVQW	QPSK	25	25	0 mm	back	1:1	1.202	0.082	0.099	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.60	0.05	0	Aluminum	VJ92MGWVQW	QPSK	1	49	0 mm	back	1:1	1.230	0.095	0.117	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.70	0.20	1	Aluminum	VJ92MGWVQW	QPSK	25	25	0 mm	back	1:1	1.202	0.076	0.091	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.60	0.05	0	Stainless Steel	W5T6H669K5	QPSK	1	49	0 mm	back	1:1	1.230	0.061	0.075	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.70	0.04	1	Stainless Steel	W5T6H669K5	QPSK	25	25	0 mm	back	1:1	1.202	0.046	0.055	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.60	0.02	0	Stainless Steel	W5T6H669K5	QPSK	1	49	0 mm	back	1:1	1.230	0.097	0.119	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.70	0.02	1	Stainless Steel	W5T6H669K5	QPSK	25	25	0 mm	back	1:1	1.202	0.088	0.106	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.60	-0.08	0	Stainless Steel	W5T6H669K5	QPSK	1	49	0 mm	back	1:1	1.230	0.096	0.118	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.70	0.11	1	Stainless Steel	W5T6H669K5	QPSK	25	25	0 mm	back	1:1	1.202	0.071	0.085	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.60	0.03	0	Titanium	KKF6JQY4Y3	QPSK	1	49	0 mm	back	1:1	1.230	0.062	0.076	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.70	0.08	1	Titanium	KKF6JQY4Y3	QPSK	25	25	0 mm	back	1:1	1.202	0.049	0.059	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.60	0.03	0	Titanium	KKF6JQY4Y3	QPSK	1	49	0 mm	back	1:1	1.230	0.094	0.116	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.70	0.03	1	Titanium	KKF6JQY4Y3	QPSK	25	25	0 mm	back	1:1	1.202	0.074	0.089	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.60	-0.02	0	Titanium	KKF6JQY4Y3	QPSK	1	49	0 mm	back	1:1	1.230	0.087	0.107	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.70	0.21	1	Titanium	KKF6JQY4Y3	QPSK	25	25	0 mm	back	1:1	1.202	0.068	0.082	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak									Extremity												
Uncontrolled Exposure/General Population									4.0 W/kg (mW/g)												
									averaged over 10 grams												

Table 10-24
LTE Band 66 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.33	-0.05	0	Aluminum	FVWVGJ196K	QPSK	1	99	0 mm	back	1:1	1.309	0.034	0.045	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.80	-0.03	1	Aluminum	FVWVGJ196K	QPSK	50	50	0 mm	back	1:1	1.175	0.027	0.032	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.33	-0.18	0	Aluminum	FVWVGJ196K	QPSK	1	99	0 mm	back	1:1	1.309	0.100	0.131	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.80	-0.03	1	Aluminum	FVWVGJ196K	QPSK	50	50	0 mm	back	1:1	1.175	0.084	0.099	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.33	-0.16	0	Aluminum	FVWVGJ196K	QPSK	1	99	0 mm	back	1:1	1.309	0.026	0.034	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.80	-0.15	1	Aluminum	FVWVGJ196K	QPSK	50	50	0 mm	back	1:1	1.175	0.020	0.024	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.33	-0.04	0	Stainless Steel	H919X012VC	QPSK	1	99	0 mm	back	1:1	1.309	0.016	0.021	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.80	-0.03	1	Stainless Steel	H919X012VC	QPSK	50	50	0 mm	back	1:1	1.175	0.014	0.016	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.33	-0.05	0	Stainless Steel	H919X012VC	QPSK	1	99	0 mm	back	1:1	1.309	0.124	0.162	A24
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.80	-0.17	1	Stainless Steel	H919X012VC	QPSK	50	50	0 mm	back	1:1	1.175	0.075	0.088	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.33	0.14	0	Stainless Steel	H919X012VC	QPSK	1	99	0 mm	back	1:1	1.309	0.056	0.073	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.80	0.17	1	Stainless Steel	H919X012VC	QPSK	50	50	0 mm	back	1:1	1.175	0.045	0.053	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.33	-0.03	0	Titanium	NYJ57CTW3J	QPSK	1	99	0 mm	back	1:1	1.309	0.033	0.043	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.80	-0.02	1	Titanium	NYJ57CTW3J	QPSK	50	50	0 mm	back	1:1	1.175	0.026	0.031	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.33	-0.04	0	Titanium	NYJ57CTW3J	QPSK	1	99	0 mm	back	1:1	1.309	0.094	0.123	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.80	0.04	1	Titanium	NYJ57CTW3J	QPSK	50	50	0 mm	back	1:1	1.175	0.075	0.088	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.33	-0.21	0	Titanium	NYJ57CTW3J	QPSK	1	99	0 mm	back	1:1	1.309	0.099	0.130	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.80	-0.21	1	Titanium	NYJ57CTW3J	QPSK	50	50	0 mm	back	1:1	1.175	0.087	0.102	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Extremity 4.0 W/kg (mW/g) averaged over 10 grams													
Uncontrolled Exposure/General Population																					

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Table 10-25
LTE Band 25 Extremity SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)	(W/kg)	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.50	23.67	-0.03	0	Aluminum	Q19JV7J1QP	QPSK	1	0	0 mm	back	1:1	1.211	0.036	0.044
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.50	22.66	0.02	1	Aluminum	Q19JV7J1QP	QPSK	50	0	0 mm	back	1:1	1.213	0.027	0.033
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.50	23.67	0.02	0	Aluminum	Q19JV7J1QP	QPSK	1	0	0 mm	back	1:1	1.211	0.070	0.085
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.50	22.66	0.04	1	Aluminum	Q19JV7J1QP	QPSK	50	0	0 mm	back	1:1	1.213	0.057	0.069
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.67	-0.19	0	Aluminum	Q19JV7J1QP	QPSK	1	0	0 mm	back	1:1	1.211	0.131	0.159
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.66	0.21	1	Aluminum	Q19JV7J1QP	QPSK	50	0	0 mm	back	1:1	1.213	0.111	0.135
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.50	23.67	0.17	0	Stainless Steel	H919X012VC	QPSK	1	0	0 mm	back	1:1	1.211	0.036	0.044
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.50	22.66	0.05	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1	1.213	0.031	0.038
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.50	23.67	0.03	0	Stainless Steel	H919X012VC	QPSK	1	0	0 mm	back	1:1	1.211	0.063	0.076
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.50	22.66	-0.02	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1	1.213	0.055	0.067
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.67	0.03	0	Stainless Steel	H919X012VC	QPSK	1	0	0 mm	back	1:1	1.211	0.120	0.145
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.66	0.01	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1	1.213	0.099	0.120
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	24.50	23.67	0.02	0	Titanium	PF2HK6M966	QPSK	1	0	0 mm	back	1:1	1.211	0.030	0.036
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Sport	23.50	22.66	0.03	1	Titanium	PF2HK6M966	QPSK	50	0	0 mm	back	1:1	1.213	0.025	0.030
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	24.50	23.67	0.02	0	Titanium	PF2HK6M966	QPSK	1	0	0 mm	back	1:1	1.211	0.191	0.231
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Links	23.50	22.66	-0.08	1	Titanium	PF2HK6M966	QPSK	50	0	0 mm	back	1:1	1.213	0.109	0.132
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.67	0.04	0	Titanium	PF2HK6M966	QPSK	1	0	0 mm	back	1:1	1.211	0.111	0.134
1882.50	26365	Mid	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.66	0.01	1	Titanium	PF2HK6M966	QPSK	50	0	0 mm	back	1:1	1.213	0.096	0.116
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Extremity											
Spatial Peak									4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 10 grams											

Table 10-26
LTE Band 7 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)																	(W/kg)		
2510.00	20850	Low	LTE Band 7	20	Sport	23.50	22.36	0.07	0	Aluminum	QWGJK4M34	QPSK	1	0	0 mm	back	1:1	1.300	0.679	0.883	
2510.00	20850	Low	LTE Band 7	20	Sport	22.50	21.25	0.07	1	Aluminum	QWGJK4M34	QPSK	50	0	0 mm	back	1:1	1.334	0.607	0.810	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.50	22.36	0.16	0	Aluminum	QWGJK4M34	QPSK	1	0	0 mm	back	1:1	1.300	0.657	0.854	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.50	21.25	0.10	1	Aluminum	QWGJK4M34	QPSK	50	0	0 mm	back	1:1	1.334	0.546	0.728	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.50	22.36	0.01	0	Aluminum	QWGJK4M34	QPSK	1	0	0 mm	back	1:1	1.300	0.830	1.079	A26
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	23.50	22.23	0.10	0	Aluminum	QWGJK4M34	QPSK	1	0	0 mm	back	1:1	1.340	0.677	0.907	
2560.00	21350	High	LTE Band 7	20	Metal Loop	23.50	21.96	-0.02	0	Aluminum	QWGJK4M34	QPSK	1	50	0 mm	back	1:1	1.426	0.517	0.737	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.50	21.25	0.05	1	Aluminum	QWGJK4M34	QPSK	50	0	0 mm	back	1:1	1.334	0.675	0.900	
2510.00	20850	Low	LTE Band 7	20	Sport	23.50	22.36	-0.04	0	Stainless Steel	H919X012VC	QPSK	1	0	0 mm	back	1:1	1.300	0.514	0.668	
2510.00	20850	Low	LTE Band 7	20	Sport	22.50	21.25	0.04	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1	1.334	0.412	0.550	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.50	22.36	0.14	0	Stainless Steel	H919X012VC	QPSK	1	0	0 mm	back	1:1	1.300	0.191	0.248	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.50	21.25	0.07	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1	1.334	0.158	0.211	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.50	22.36	0.02	0	Stainless Steel	H919X012VC	QPSK	1	0	0 mm	back	1:1	1.300	0.686	0.892	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.50	21.25	-0.03	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1	1.334	0.527	0.703	
2510.00	20850	Low	LTE Band 7	20	Sport	23.50	22.36	-0.07	0	Titanium	WY3JK902WT	QPSK	1	0	0 mm	back	1:1	1.300	0.616	0.801	
2510.00	20850	Low	LTE Band 7	20	Sport	22.50	21.25	-0.05	1	Titanium	WY3JK902WT	QPSK	50	0	0 mm	back	1:1	1.334	0.504	0.672	
2510.00	20850	Low	LTE Band 7	20	Metal Links	23.50	22.36	0.10	0	Titanium	WY3JK902WT	QPSK	1	0	0 mm	back	1:1	1.300	0.190	0.247	
2510.00	20850	Low	LTE Band 7	20	Metal Links	22.50	21.25	0.00	1	Titanium	WY3JK902WT	QPSK	50	0	0 mm	back	1:1	1.334	0.131	0.175	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	23.50	22.36	0.13	0	Titanium	WY3JK902WT	QPSK	1	0	0 mm	back	1:1	1.300	0.811	1.054	
2510.00	20850	Low	LTE Band 7	20	Metal Loop	22.50	21.25	0.06	1	Titanium	WY3JK902WT	QPSK	50	0	0 mm	back	1:1	1.334	0.671	0.895	
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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Document S/N: 1C2106070043-22.BCG (Rev 1)	Test Dates: 06/18/2021 – 08/19/2021	DUT Type: Watch	Page 50 of 64

Table 10-27
LTE Band 41 Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
2680.00	41490	High	LTE Band 41	20	Sport	23.50	22.53	-0.02	0	Aluminum	FVWWGJ196K	QPSK	1	50	0 mm	back	1:1.58	1.250	0.567	0.709	
2680.00	41490	High	LTE Band 41	20	Sport	22.50	21.42	-0.02	1	Aluminum	FVWWGJ196K	QPSK	50	0	0 mm	back	1:1.58	1.282	0.440	0.564	
2680.00	41490	High	LTE Band 41	20	Metal Links	23.50	22.53	-0.06	0	Aluminum	FVWWGJ196K	QPSK	1	50	0 mm	back	1:1.58	1.250	0.655	0.819	
2680.00	41490	High	LTE Band 41	20	Metal Links	22.50	21.42	0.02	1	Aluminum	FVWWGJ196K	QPSK	50	0	0 mm	back	1:1.58	1.282	0.498	0.638	
2680.00	41490	High	LTE Band 41	20	Metal Loop	23.50	22.53	-0.04	0	Aluminum	FVWWGJ196K	QPSK	1	50	0 mm	back	1:1.58	1.250	0.687	0.859	A27
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.50	21.42	0.02	1	Aluminum	FVWWGJ196K	QPSK	50	0	0 mm	back	1:1.58	1.282	0.531	0.681	
2680.00	41490	High	LTE Band 41	20	Sport	23.50	22.53	-0.02	0	Stainless Steel	H919X012VC	QPSK	1	50	0 mm	back	1:1.58	1.250	0.372	0.465	
2680.00	41490	High	LTE Band 41	20	Sport	22.50	21.42	-0.01	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1.58	1.282	0.294	0.377	
2680.00	41490	High	LTE Band 41	20	Metal Links	23.50	22.53	0.00	0	Stainless Steel	H919X012VC	QPSK	1	50	0 mm	back	1:1.58	1.250	0.198	0.248	
2680.00	41490	High	LTE Band 41	20	Metal Links	22.50	21.42	-0.02	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1.58	1.282	0.157	0.201	
2680.00	41490	High	LTE Band 41	20	Metal Loop	23.50	22.53	0.04	0	Stainless Steel	H919X012VC	QPSK	1	50	0 mm	back	1:1.58	1.250	0.624	0.780	
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.50	21.42	0.06	1	Stainless Steel	H919X012VC	QPSK	50	0	0 mm	back	1:1.58	1.282	0.516	0.662	
2680.00	41490	High	LTE Band 41	20	Sport	23.50	22.53	-0.05	0	Titanium	NYJ57CTW3J	QPSK	1	50	0 mm	back	1:1.58	1.250	0.213	0.266	
2680.00	41490	High	LTE Band 41	20	Sport	22.50	21.42	0.05	1	Titanium	NYJ57CTW3J	QPSK	50	0	0 mm	back	1:1.58	1.282	0.169	0.217	
2680.00	41490	High	LTE Band 41	20	Metal Links	23.50	22.53	0.00	0	Titanium	NYJ57CTW3J	QPSK	1	50	0 mm	back	1:1.58	1.250	0.213	0.266	
2680.00	41490	High	LTE Band 41	20	Metal Links	22.50	21.42	0.04	1	Titanium	NYJ57CTW3J	QPSK	50	0	0 mm	back	1:1.58	1.282	0.165	0.212	
2680.00	41490	High	LTE Band 41	20	Metal Loop	23.50	22.53	0.04	0	Titanium	NYJ57CTW3J	QPSK	1	50	0 mm	back	1:1.58	1.250	0.521	0.651	
2680.00	41490	High	LTE Band 41	20	Metal Loop	22.50	21.42	-0.01	1	Titanium	NYJ57CTW3J	QPSK	50	0	0 mm	back	1:1.58	1.282	0.425	0.545	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

Table 10-28
2.4 GHz WLAN Extremity SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)	(W/kg)	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.03	0 mm	Aluminum	Sport	YX21TF2M4R	1	back	99.7	1.186	1.003	0.220	0.262	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.10	0 mm	Aluminum	Metal Links	YX21TF2M4R	1	back	99.7	1.186	1.003	0.264	0.314	A28
2462	11	802.11b	DSSS	22	19.00	18.26	-0.05	0 mm	Aluminum	Metal Loop	YX21TF2M4R	1	back	99.7	1.186	1.003	0.237	0.282	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.07	0 mm	Stainless Steel	Sport	H919X012VC	1	back	99.7	1.186	1.003	0.121	0.144	
2462	11	802.11b	DSSS	22	19.00	18.26	0.01	0 mm	Stainless Steel	Metal Links	H919X012VC	1	back	99.7	1.186	1.003	0.163	0.194	
2462	11	802.11b	DSSS	22	19.00	18.26	0.03	0 mm	Stainless Steel	Metal Loop	H919X012VC	1	back	99.7	1.186	1.003	0.180	0.214	
2462	11	802.11b	DSSS	22	19.00	18.26	0.08	0 mm	Titanium	Sport	PF2HK6M366	1	back	99.7	1.186	1.003	0.183	0.218	
2462	11	802.11b	DSSS	22	19.00	18.26	-0.07	0 mm	Titanium	Metal Links	PF2HK6M366	1	back	99.7	1.186	1.003	0.186	0.221	
2462	11	802.11b	DSSS	22	19.00	18.26	0.04	0 mm	Titanium	Metal Loop	PF2HK6M366	1	back	99.7	1.186	1.003	0.145	0.172	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

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Table 10-29
5 GHz WLAN Extremity SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)	(W/kg)	
5300	60	802.11a	OFDM	20	17.00	16.16	-0.02	0 mm	Aluminum	Sport	Q19JV7J1QP	6	back	97.5	1.213	1.026	0.003	0.004	
5300	60	802.11a	OFDM	20	17.00	16.16	-0.02	0 mm	Aluminum	Metal Links	Q19JV7J1QP	6	back	97.5	1.213	1.026	0.002	0.002	
5300	60	802.11a	OFDM	20	17.00	16.16	0.05	0 mm	Aluminum	Metal Loop	Q19JV7J1QP	6	back	97.5	1.213	1.026	0.001	0.001	
5300	60	802.11a	OFDM	20	17.00	16.16	0.10	0 mm	Stainless Steel	Sport	W5T6H669K5	6	back	97.5	1.213	1.026	0.003	0.004	
5300	60	802.11a	OFDM	20	17.00	16.16	0.11	0 mm	Stainless Steel	Metal Links	W5T6H669K5	6	back	97.5	1.213	1.026	0.000	0.000	
5300	60	802.11a	OFDM	20	17.00	16.16	-0.06	0 mm	Stainless Steel	Metal Loop	W5T6H669K5	6	back	97.5	1.213	1.026	0.002	0.002	
5300	60	802.11a	OFDM	20	17.00	16.16	-0.07	0 mm	Titanium	Sport	X30GF00WKW	6	back	97.5	1.213	1.026	0.003	0.004	
5300	60	802.11a	OFDM	20	17.00	16.16	-0.03	0 mm	Titanium	Metal Links	X30GF00WKW	6	back	97.5	1.213	1.026	0.005	0.006	
5300	60	802.11a	OFDM	20	17.00	16.16	-0.01	0 mm	Titanium	Metal Loop	X30GF00WKW	6	back	97.5	1.213	1.026	0.002	0.002	
5600	120	802.11a	OFDM	20	17.00	16.17	-0.16	0 mm	Aluminum	Sport	Q19JV7J1QP	6	back	97.5	1.211	1.026	0.009	0.011	
5600	120	802.11a	OFDM	20	17.00	16.17	-0.05	0 mm	Aluminum	Metal Links	Q19JV7J1QP	6	back	97.5	1.211	1.026	0.009	0.011	
5600	120	802.11a	OFDM	20	17.00	16.17	-0.07	0 mm	Aluminum	Metal Loop	Q19JV7J1QP	6	back	97.5	1.211	1.026	0.009	0.011	
5600	120	802.11a	OFDM	20	17.00	16.17	0.05	0 mm	Stainless Steel	Sport	W5T6H669K5	6	back	97.5	1.211	1.026	0.005	0.006	
5600	120	802.11a	OFDM	20	17.00	16.17	0.04	0 mm	Stainless Steel	Metal Links	W5T6H669K5	6	back	97.5	1.211	1.026	0.003	0.004	
5600	120	802.11a	OFDM	20	17.00	16.17	0.09	0 mm	Stainless Steel	Metal Loop	W5T6H669K5	6	back	97.5	1.211	1.026	0.004	0.005	
5600	120	802.11a	OFDM	20	17.00	16.17	0.09	0 mm	Titanium	Sport	X30GF00WKW	6	back	97.5	1.211	1.026	0.006	0.007	
5600	120	802.11a	OFDM	20	17.00	16.17	0.02	0 mm	Titanium	Metal Links	X30GF00WKW	6	back	97.5	1.211	1.026	0.009	0.011	
5600	120	802.11a	OFDM	20	17.00	16.17	0.19	0 mm	Titanium	Metal Loop	X30GF00WKW	6	back	97.5	1.211	1.026	0.006	0.007	
5745	149	802.11a	OFDM	20	17.00	16.13	-0.13	0 mm	Aluminum	Sport	Q19JV7J1QP	6	back	97.5	1.222	1.026	0.004	0.005	
5745	149	802.11a	OFDM	20	17.00	16.13	-0.16	0 mm	Aluminum	Metal Links	Q19JV7J1QP	6	back	97.5	1.222	1.026	0.009	0.011	
5745	149	802.11a	OFDM	20	17.00	16.13	-0.09	0 mm	Aluminum	Metal Loop	Q19JV7J1QP	6	back	97.5	1.222	1.026	0.007	0.009	
5745	149	802.11a	OFDM	20	17.00	16.13	0.11	0 mm	Stainless Steel	Sport	WR6JJRPYX5	6	back	97.5	1.222	1.026	0.006	0.008	
5745	149	802.11a	OFDM	20	17.00	16.13	0.08	0 mm	Stainless Steel	Metal Links	WR6JJRPYX5	6	back	97.5	1.222	1.026	0.010	0.013	
5745	149	802.11a	OFDM	20	17.00	16.13	0.10	0 mm	Stainless Steel	Metal Loop	WR6JJRPYX5	6	back	97.5	1.222	1.026	0.006	0.008	
5745	149	802.11a	OFDM	20	17.00	16.13	0.16	0 mm	Titanium	Sport	X30GF00WKW	6	back	97.5	1.222	1.026	0.010	0.013	
5745	149	802.11a	OFDM	20	17.00	16.13	0.17	0 mm	Titanium	Metal Links	X30GF00WKW	6	back	97.5	1.222	1.026	0.015	0.019	A29
5745	149	802.11a	OFDM	20	17.00	16.13	0.17	0 mm	Titanium	Metal Loop	X30GF00WKW	6	back	97.5	1.222	1.026	0.007	0.009	
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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Table 10-30
Bluetooth Extremity SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)	(W/kg)	
2480	78	Bluetooth	FHSS	13.00	11.92	0.07	0 mm	Aluminum	Sport	NWXGYWTN2R	1	back	100	1.282	1.000	0.062	0.079	
2480	78	Bluetooth	FHSS	13.00	11.92	0.07	0 mm	Aluminum	Metal Links	NWXGYWTN2R	1	back	100	1.282	1.000	0.058	0.074	
2480	78	Bluetooth	FHSS	13.00	11.92	0.03	0 mm	Aluminum	Metal Loop	NWXGYWTN2R	1	back	100	1.282	1.000	0.080	0.103	A30
2480	78	Bluetooth	FHSS	13.00	11.92	0.05	0 mm	Stainless Steel	Sport	DYXLM7F7RL	1	back	100	1.282	1.000	0.016	0.021	
2480	78	Bluetooth	FHSS	13.00	11.92	0.02	0 mm	Stainless Steel	Metal Links	DYXLM7F7RL	1	back	100	1.282	1.000	0.020	0.026	
2480	78	Bluetooth	FHSS	13.00	11.92	0.16	0 mm	Stainless Steel	Metal Loop	DYXLM7F7RL	1	back	100	1.282	1.000	0.022	0.028	
2480	78	Bluetooth	FHSS	13.00	11.92	-0.11	0 mm	Titanium	Sport	QQX7LDF02F	1	back	100	1.282	1.000	0.048	0.062	
2480	78	Bluetooth	FHSS	13.00	11.92	0.06	0 mm	Titanium	Metal Links	QQX7LDF02F	1	back	100	1.282	1.000	0.029	0.037	
2480	78	Bluetooth	FHSS	13.00	11.92	0.09	0 mm	Titanium	Metal Loop	QQX7LDF02F	1	back	100	1.282	1.000	0.030	0.038	
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 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 447498 D01v06.
- 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 D01v06.
- 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 12 for variability analysis.
- This device has three housing types: Aluminum, Stainless Steel, 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 D01v06 Section 6.2 have been applied for extremity and next to mouth (head) conditions.
- Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
- The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.

UMTS Notes:

- UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations and ≤ 2.0 W/kg for 10g SAR then testing at the other channels is not required for such test configuration(s). When

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the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

1. 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 7.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D01v06, 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 27RB. 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.

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 7.6.4 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 7.6.5 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. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.

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.

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

11.3 Head SAR Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all housing and wristband types were used as a conservative evaluation for the simultaneous transmission analysis.

Table 11-1
Cellular Band Simultaneous Transmission Scenario with 2.4 GHz WLAN (Head at 1.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	UMTS 850	0.000	0.343	0.343
	UMTS 1750	0.246	0.343	0.589
	UMTS 1900	0.496	0.343	0.839
	LTE Band 12	0.001	0.343	0.344
	LTE Band 13	0.001	0.343	0.344
	LTE Band 14	0.003	0.343	0.346
	LTE Band 26 (Cell)	0.004	0.343	0.347
	LTE Band 5 (Cell)	0.002	0.343	0.345
	LTE Band 66 (AWS)	0.370	0.343	0.713
	LTE Band 25 (PCS)	0.482	0.343	0.825
	LTE Band 7	1.105	0.343	1.448
	LTE Band 41	0.470	0.343	0.813

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Table 11-2
Cellular Band Simultaneous Transmission Scenario with Bluetooth
and 5 GHz WLAN (Head at 1.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Head SAR	UMTS 850	0.000	0.121	0.076	0.121	0.076	0.197
	UMTS 1750	0.246	0.121	0.076	0.367	0.322	0.443
	UMTS 1900	0.496	0.121	0.076	0.617	0.572	0.693
	LTE Band 12	0.001	0.121	0.076	0.122	0.077	0.198
	LTE Band 13	0.001	0.121	0.076	0.122	0.077	0.198
	LTE Band 14	0.003	0.121	0.076	0.124	0.079	0.200
	LTE Band 26 (Cell)	0.004	0.121	0.076	0.125	0.080	0.201
	LTE Band 5 (Cell)	0.002	0.121	0.076	0.123	0.078	0.199
	LTE Band 66 (AWS)	0.370	0.121	0.076	0.491	0.446	0.567
	LTE Band 25 (PCS)	0.482	0.121	0.076	0.603	0.558	0.679
	LTE Band 7	1.105	0.121	0.076	1.226	1.181	1.302
	LTE Band 41	0.470	0.121	0.076	0.591	0.546	0.667

Table 11-3
Bluetooth Simultaneous Transmission Scenario with 5 GHz WLAN (Head at 1.0 cm)

Exposure Condition	Bluetooth SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
	1	2	1+2
Head SAR	0.121	0.076	0.197

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11.4 Extremity SAR Simultaneous Transmission Analysis

Table 11-4
Cellular Band Simultaneous Transmission Scenario with 2.4 GHz WLAN (Extremity at 0.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	2.4 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Extremity SAR	UMTS 850	0.112	0.314	0.426
	UMTS 1750	0.196	0.314	0.510
	UMTS 1900	0.304	0.314	0.618
	LTE Band 12	0.103	0.314	0.417
	LTE Band 13	0.213	0.314	0.527
	LTE Band 14	0.328	0.314	0.642
	LTE Band 26 (Cell)	0.140	0.314	0.454
	LTE Band 5 (Cell)	0.139	0.314	0.453
	LTE Band 66 (AWS)	0.162	0.314	0.476
	LTE Band 25 (PCS)	0.231	0.314	0.545
	LTE Band 7	1.079	0.314	1.393
	LTE Band 41	0.859	0.314	1.173

Table 11-5
Cellular Band Simultaneous Transmission Scenario with Bluetooth and 5 GHz WLAN (Extremity at 0.0 cm)

Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2	1+3	1+2+3
Extremity SAR	UMTS 850	0.112	0.103	0.019	0.215	0.131	0.234
	UMTS 1750	0.196	0.103	0.019	0.299	0.215	0.318
	UMTS 1900	0.304	0.103	0.019	0.407	0.323	0.426
	LTE Band 12	0.103	0.103	0.019	0.206	0.122	0.225
	LTE Band 13	0.213	0.103	0.019	0.316	0.232	0.335
	LTE Band 14	0.328	0.103	0.019	0.431	0.347	0.450
	LTE Band 26 (Cell)	0.140	0.103	0.019	0.243	0.159	0.262
	LTE Band 5 (Cell)	0.139	0.103	0.019	0.242	0.158	0.261
	LTE Band 66 (AWS)	0.162	0.103	0.019	0.265	0.181	0.284
	LTE Band 25 (PCS)	0.231	0.103	0.019	0.334	0.250	0.353
	LTE Band 7	1.079	0.103	0.019	1.182	1.098	1.201
	LTE Band 41	0.859	0.103	0.019	0.962	0.878	0.981

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Table 11-6
Bluetooth Simultaneous Transmission Scenario with 5 GHz WLAN (Extremity at 0.0 cm)

Exposure Condition	Bluetooth SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
	1	2	1+2
Extremity SAR	0.103	0.019	0.122

11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06.

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12 SAR MEASUREMENT VARIABILITY

12.1 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

Table 12-1
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Test Position	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.					(W/kg)	(W/kg)		(W/kg)		(W/kg)	
2450	2510.00	20850	LTE Band 7, 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Front	10 mm	0.827	0.729	1.13	N/A	N/A	N/A	N/A
2600	2535.00	21100	LTE Band 7, 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Front	10 mm	0.815	0.804	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Head 1.6 W/kg (mW/g) averaged over 1 gram							

12.2 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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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	09/16/2020	Annual	09/16/2021	MY40000670
Agilent	E4438C	ESG Vector Signal Generator	12/02/2020	Annual	12/02/2021	MY42081752
Agilent	E5515C	Wireless Communications Test Set	12/15/2020	Annual	12/15/2021	GB42361078
Agilent	N5182A	MXG Vector Signal Generator	09/25/2020	Annual	09/25/2021	US46240505
Agilent	N5182A	MXG Vector Signal Generator	12/01/2020	Annual	12/01/2021	MY47420837
Agilent	N9020A	MXA Signal Analyzer	12/21/2020	Annual	12/21/2021	MY50200571
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	09/15/2020	Annual	09/15/2021	1244515
Anritsu	MA24106A	USB Power Sensor	09/15/2020	Annual	09/15/2021	1248508
Anritsu	MA24106A	USB Power Sensor	02/25/2021	Annual	02/25/2022	1520503
Anritsu	MA24106A	USB Power Sensor	02/25/2021	Annual	02/25/2022	1520501
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Anritsu	ML2495A	Power Meter	11/03/2020	Annual	11/03/2021	1039008
Anritsu	MT8820C	Radio Communication Analyzer	09/30/2020	Annual	09/30/2021	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	05/21/2021	Annual	05/21/2022	6201144419
Control Company	4040	Therm./Clock/Humidity Monitor	02/17/2020	Biennial	02/17/2022	200113269
Control Company	4040	Therm./Clock/Humidity Monitor	02/17/2020	Biennial	02/17/2022	200113274
Control Company	4040	Therm./Clock/Humidity Monitor	03/06/2020	Biennial	03/06/2022	200170313
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670646
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670653
Insize	1108-150	Digital Caliper	01/17/2020	Biennial	01/17/2022	409193536
KEYSIGHT	E4438C	VECTOR SIGNAL GENERATOR	09/08/2020	Biennial	09/08/2022	MY45090700
MCL	BW-N10W5+	10dB Attenuator	CBT	N/A	CBT	1611
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	1812
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1311
Mini-Circuits	NLP-1000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	04/13/2020	Annual	04/13/2022	167284
Rohde & Schwarz	CMW500	Radio Communication Tester	04/27/2021	Annual	04/27/2022	167285
Rohde & Schwarz	CMW500	Radio Communication Tester	10/16/2020	Annual	10/16/2021	101699
Rohde & Schwarz	CMW500	Radio Communication Tester	10/16/2020	Annual	10/16/2021	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	10/27/2020	Annual	10/27/2021	108843
Rohde & Schwarz	FSP-7	Spectrum Analyzer	01/09/2020	Biennial	01/09/2022	100990
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	09/17/2020	Annual	09/17/2021	145663
Rosenberger	32W1006-016	Torque Wrench	12/01/2020	Annual	12/01/2021	N/A
SPEAG	DAKS-3.5	Portable DAK	09/09/2020	Annual	09/09/2021	1045
SPEAG	D750V3	750 MHz SAR Dipole	06/20/2019	Triennial	06/20/2022	1057
SPEAG	D750V3	750 MHz SAR Dipole	09/08/2020	Annual	09/08/2021	1097
SPEAG	D835V2	835 MHz SAR Dipole	06/20/2019	Triennial	06/20/2022	404040
SPEAG	D850V2	850 MHz SAR Dipole	09/08/2020	Annual	09/08/2021	1010
SPEAG	D1750V2	1750 MHz SAR Dipole	06/19/2019	Triennial	06/19/2022	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	06/19/2019	Triennial	06/19/2022	503030
SPEAG	D1900V2	1900 MHz SAR Dipole	09/10/2020	Annual	09/10/2021	51811
SPEAG	D2450V2	2450 MHz SAR Dipole	06/14/2019	Triennial	06/14/2022	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Triennial	11/12/2021	921
SPEAG	D2600V2	2600 MHz SAR Dipole	06/14/2019	Triennial	06/14/2022	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	09/09/2021	Annual	09/09/2022	1069
SPEAG	D5GHzv2	5 GHz SAR Dipole	03/10/2021	Annual	03/10/2022	1123
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7640
SPEAG	EX3DV4	SAR Probe	04/19/2021	Annual	04/19/2022	7532
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7639
SPEAG	EX3DV4	SAR Probe	05/18/2021	Annual	05/18/2022	7416
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7638
SPEAG	EX3DV4	SAR Probe	01/18/2021	Annual	01/18/2022	3837
SPEAG	EX3DV4	SAR Probe	02/17/2021	Annual	02/17/2022	7427
SPEAG	EX3DV4	SAR Probe	08/19/2021	Annual	08/19/2022	3949
SPEAG	EX3DV4	SAR Probe	03/17/2021	Annual	03/17/2022	7421
SPEAG	EX3DV4	SAR Probe	10/21/2020	Annual	10/21/2021	7558
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1645
SPEAG	DAE4	Dasy Data Acquisition Electronics	04/13/2021	Annual	04/13/2022	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	05/11/2021	Annual	05/11/2022	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/13/2021	Annual	01/13/2022	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	02/11/2021	Annual	02/11/2022	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	09/13/2020	Annual	09/13/2021	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	03/10/2021	Annual	03/10/2022	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/12/2020	Annual	10/12/2021	1364

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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14 MEASUREMENT UNCERTAINTIES

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0
									191

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

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15 CONCLUSION

15.1 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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APPENDIX A: SAR TEST DATA

PCTEST

DUT: BCG-A2475; Type: Watch; Serial: Y09C9Y7XKN

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA)

Frequency: 836.6 MHz

Medium: 835 Head; Medium parameters used (interpolated):

$f = 836.6$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 40.046$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/27/2021; Ambient Temp: 23.7°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7639; Conv F(10.56, 10.56, 10.56) @ 836.6 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1646; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2129

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 850, Head SAR, Front side, Mid.ch, Titanium, Sport Wristband

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

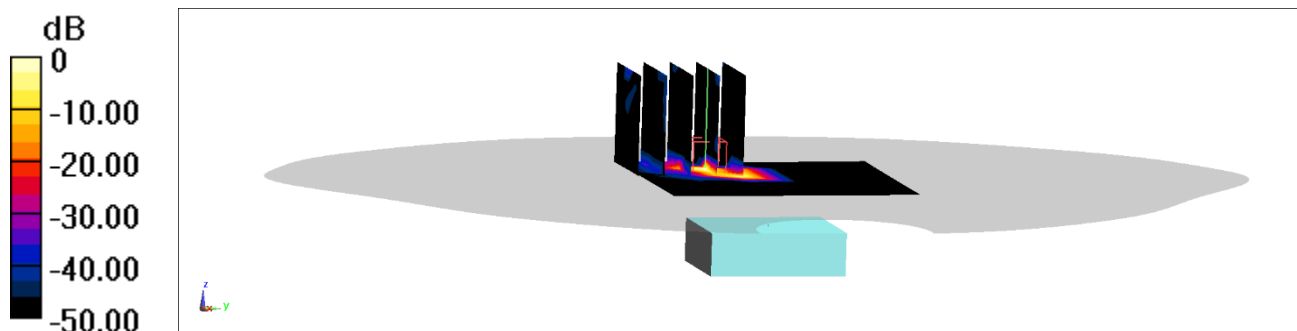
Reference Value = 0.1560 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.000627 W/kg

SAR(1 g) = 1.44e-005 W/kg

Smallest distance from peaks to all points 3 dB below: N/A

Ratio of SAR at M2 to SAR at M1 = N/A



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: HK7NX0N6WW

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA)

Frequency: 1732.4 MHz

Medium: 1750 Head; Medium parameters used (interpolated):

$f = 1732.4 \text{ MHz}$; $\sigma = 1.364 \text{ S/m}$; $\epsilon_r = 39.214$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/20/2021; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7640; Conv F(9.49, 9.49, 9.49) @ 1732.4 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

Mode: UMTS 1750, Head SAR, Back side, Mid.ch, Aluminum, Metal Links Wristband

Area Scan (6x6x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

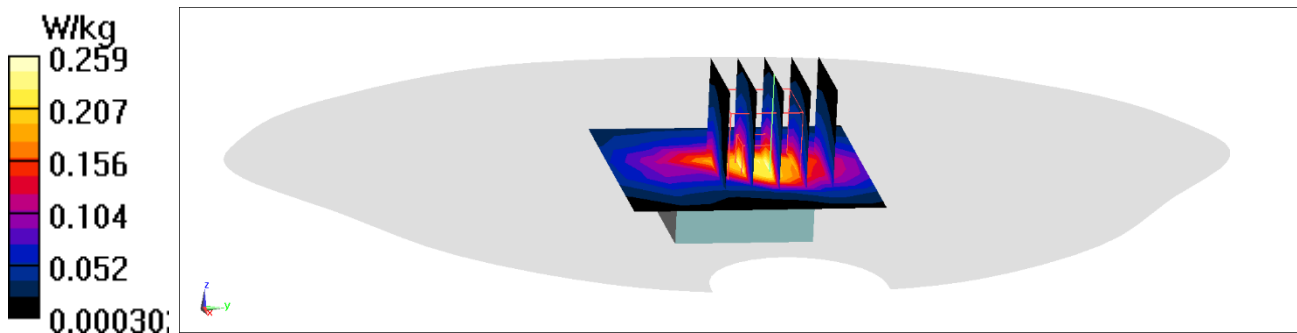
Reference Value = 12.18 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.323 W/kg

SAR(1 g) = 0.197 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 63.8%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: Y09C9Y7XKN

Communication System: UID:10011-CAB, WCDMA; MAIA: Y; Frequency: 1880.0 MHz

Medium: 1900 Head; Medium parameters used:

$f = 1880.0$ MHz; Cond = 1.45 S/m; perm = 39.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 07/21/2021; Ambient Temp: 22.0°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7639; Conv F:(8.86,8.86,8.86); Calibrated: 2021-03-03

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1646; Calibrated: 2021-01-11

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: cDASY6 Module SAR V6.14.0.959

Mode: UMTS 1900, Head SAR. Front side, Mid. Ch, Stainless Steel, Metal Loop Wristband

Area Scan (90.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

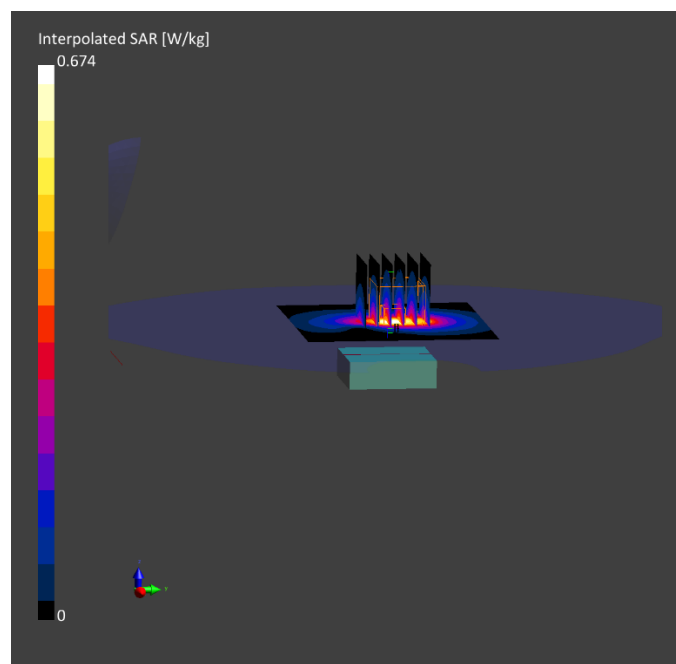
Reference Value = 0.48 W/kg; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.674 W/kg

SAR(1 g) = 0.398 W/kg

Smallest distance from peaks to all points 3 dB below is 10.8 mm

Ratio of SAR at M2 to SAR at M1 = 83.4 %



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: WY3JK902WT

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)

Frequency: 707.5 MHz

Medium: 750 Head; Medium parameters used (interpolated):

$f = 707.5 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 42.253$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 08/06/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7640; Conv F(11.14, 11.14, 11.14) @ 707.5 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 12, Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset,
Stainless Steel, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

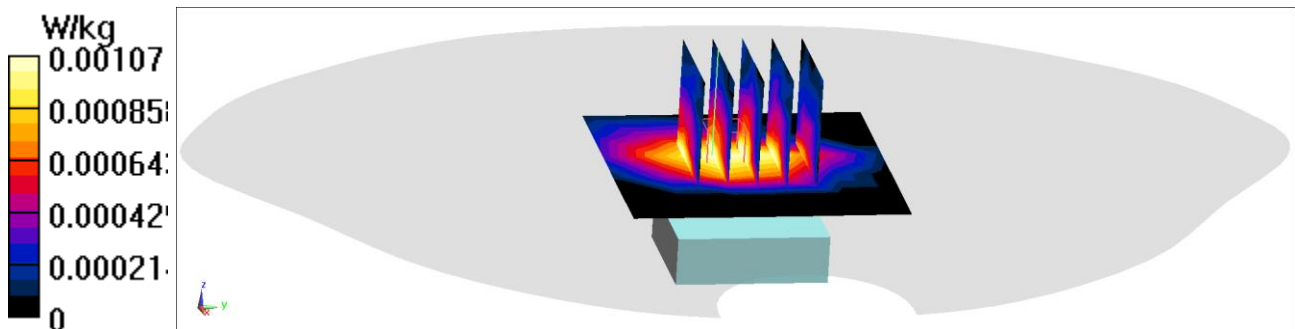
Reference Value = 1.013 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.00177 W/kg

SAR(1 g) = 0.000927 W/kg

Smallest distance from peaks to all points 3 dB below: N/A

Ratio of SAR at M2 to SAR at M1 = 53.7%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: PF2HK6M366

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)

Frequency: 782 MHz

Medium: 750 Head; Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.884 \text{ S/m}$; $\epsilon_r = 43.159$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 08/09/2021; Ambient Temp: 23.5°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7558; Conv F(10.31, 10.31, 10.31) @ 782 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0 ; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 13, Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset,
Titanium, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

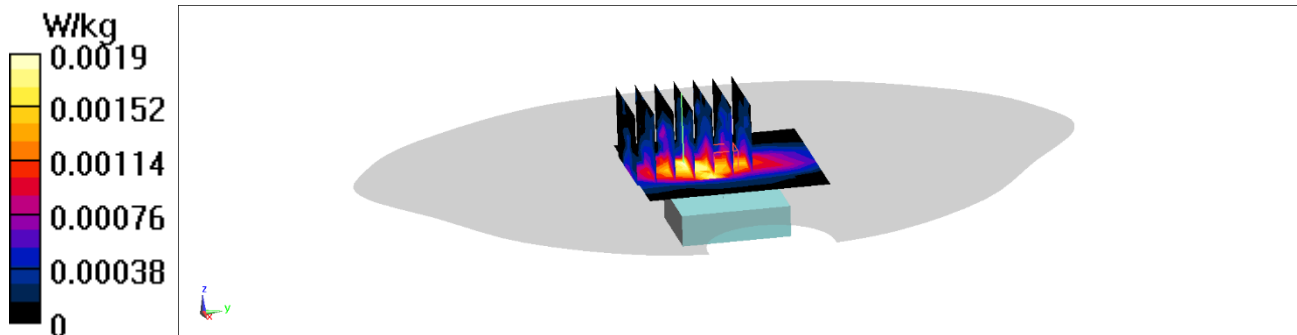
Reference Value = 1.159 V/m; Power Drift = 0.00dB

Peak SAR (extrapolated) = 0.00360 W/kg

SAR(1 g) = 0.00063 W/kg

Smallest distance from peaks to all points 3 dB below: N/A

Ratio of SAR at M2 to SAR at M1 = N/A



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: NWXGYWTN2R

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)

Frequency: 793 MHz

Medium: 750 Head; Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 0.89 \text{ S/m}$; $\epsilon_r = 42.366$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 10 mm

Test Date: 06/27/2021; Ambient Temp: 21.2°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7421; Conv F(9.34, 9.34, 9.34) @ 793 MHz; Calibrated: 3/17/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/10/2021

Phantom: Twin-SAM V8.0, Right; Type: QD 000 P41 AA; Serial: 1944

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 14, Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset,
Aluminum, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

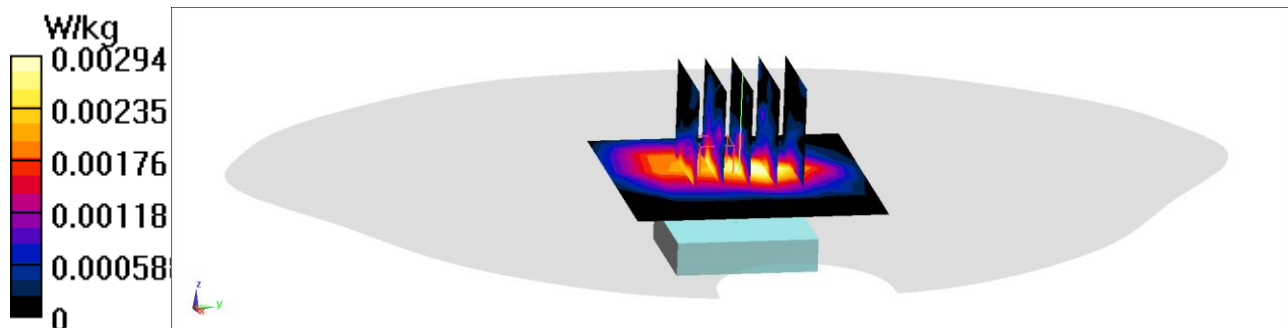
Reference Value = 1.340 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.00433 W/kg

SAR(1 g) = 0.0018 W/kg

Smallest distance from peaks to all points 3 dB below: N/A

Ratio of SAR at M2 to SAR at M1 = 45.2%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: Q0G6P06MDP

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)

Frequency: 831.5 MHz

Medium: 835 Head; Medium parameters used (interpolated):

$f = 831.5$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 40.388$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/21/2021; Ambient Temp: 24.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7427; Conv F(9.8, 9.8, 9.8) @ 831.5 MHz; Calibrated: 2/17/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/11/2021

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 26 (Cell.), Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset,
Aluminum, Metal Loop Wristband**

Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

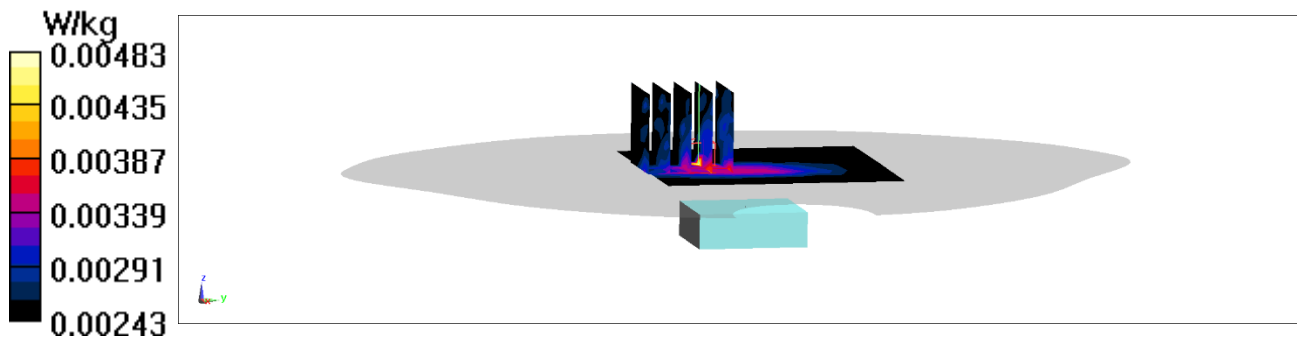
Reference Value = 1.649 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.00319 W/kg

SAR(1 g) = 0.00291 W/kg

Smallest distance from peaks to all points 3 dB below: N/A

Ratio of SAR at M2 to SAR at M1 = 96%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: YX21TF2M4R

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);

Frequency: 836.5 MHz

Medium: 835 Head; Medium parameters used (interpolated):

$f = 836.5$ MHz; $\sigma = 0.938$ S/m; $\epsilon_r = 40.827$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/30/2021; Ambient Temp: 20.4°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN3949; Conv F(10.23, 10.23, 10.23) @ 836.5 MHz; Calibrated: 8/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/13/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 5 (Cell.), Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset,
Aluminum, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

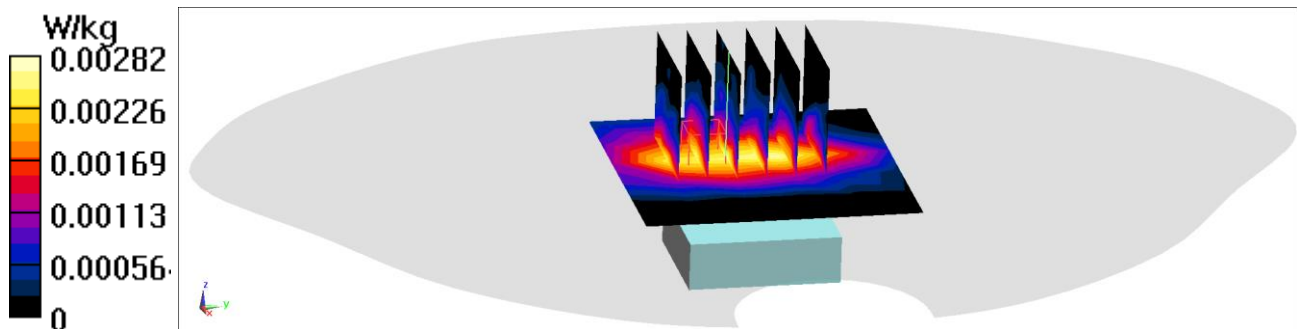
Reference Value = 1.643 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.00327 W/kg

SAR(1 g) = 0.00199 W/kg

Smallest distance from peaks to all points 3 dB below: N/A

Ratio of SAR at M2 to SAR at M1 = 43.2%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: H919X012VC

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)

Frequency: 1720 MHz

Medium: 1750 Head; Medium parameters used:

$f = 1720$ MHz; $\sigma = 1.338$ S/m; $\epsilon_r = 38.703$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Space: 10 mm

Test Date: 06/20/2021; Ambient Temp: 21.7°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3949; Conv F(8.83, 8.83, 8.83) @ 1720 MHz; Calibrated: 8/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/13/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS), Head SAR, Front side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset,
Stainless Steel, Metal Loop Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

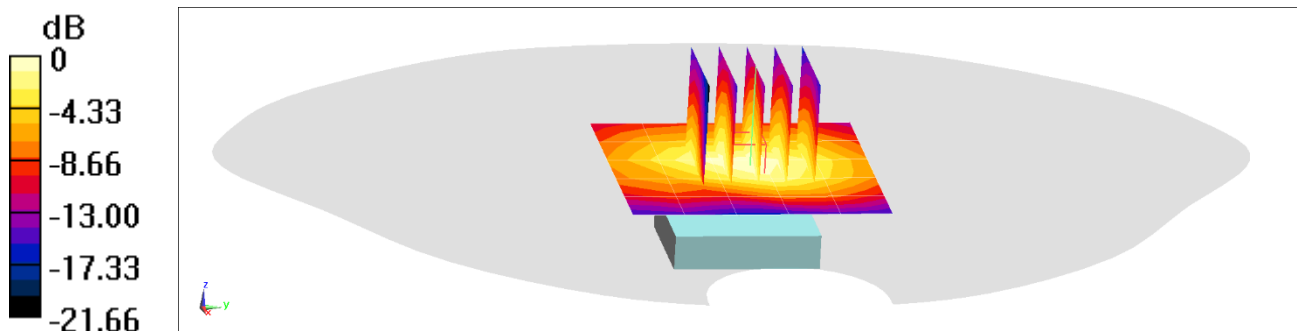
Reference Value = 15.19 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.432 W/kg

SAR(1 g) = 0.283 W/kg

Smallest distance from peaks to all points 3 dB below = 12.8 mm

Ratio of SAR at M2 to SAR at M1 = 68%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: NYJ57CTW3J

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)

Frequency: 1882.5 MHz

Medium: 1900 Head; Medium parameters used (interpolated):

$f = 1882.5$ MHz; $\sigma = 1.427$ S/m; $\epsilon_r = 38.434$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Space: 10 mm

Test Date: 06/20/2021; Ambient Temp: 22.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7427; Conv F(8.25, 8.25, 8.25) @ 1882.5 MHz; Calibrated: 2/17/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/11/2021

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS), Head SAR, Front side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset,
Titanium, Metal Loop Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

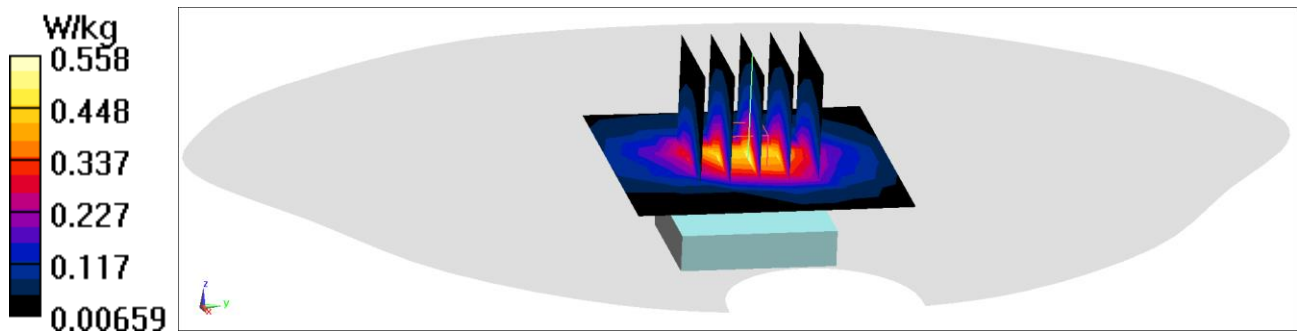
Reference Value = 17.80 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.398 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.2%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: QWGJK4MV34

Communication System: UID:10169-CAE, LTE-FDD; MAIA: Y; Frequency: 2510.0 MHz
Medium: 2450 Head; Medium parameters used:
 $f = 2510.0$ MHz; Cond = 1.92 S/m; perm = 38.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/28/2021; Ambient Temp: 21.1°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3837; Conv F:(7.39,7.39,7.39); Calibrated: 2021-01-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn793; Calibrated: 2021-01-13
Phantom: Twin-SAM V4.0; Serial: 1736
Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: LTE Band 7, Head SAR, Front Side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset,
Aluminum, Sport Wristband**

Area Scan (80.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

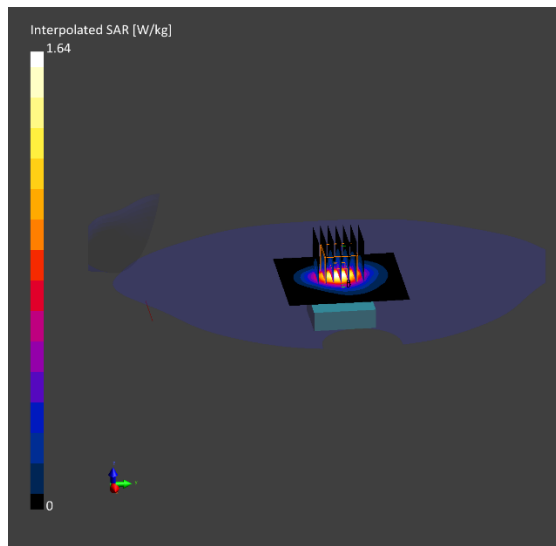
Reference Value = 1.04 W/kg; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.827 W/kg

Smallest distance from peaks to all points 3 dB below is 10.4 mm

Ratio of SAR at M2 to SAR at M1 = 79.6 %



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: H919X012VC

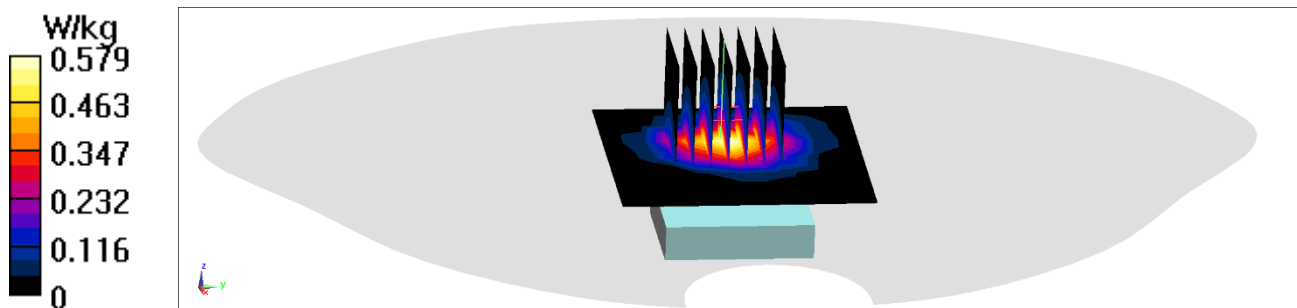
Communication System: UID 10435 - AAF, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL
Subframe=2,3,4,7,8,9); Frequency: 2680 MHz
Medium: 2450 Head; Medium parameters used:
 $f = 2680 \text{ MHz}$; $\sigma = 2.009 \text{ S/m}$; $\epsilon_r = 38.581$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 10 mm

Test Date: 06/18/2021; Ambient Temp: 20.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN3949; Conv F(7.59, 7.59, 7.59) @ 2680 MHz; Calibrated: 8/19/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1408; Calibrated: 8/13/2020
Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 41, Head SAR, Front side, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset,
Stainless Steel, Sport Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.36 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.724 W/kg
SAR(1 g) = 0.376 W/kg
Smallest distance from peaks to all points 3 dB below = 10.4 mm
Ratio of SAR at M2 to SAR at M1 = 51.7%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: X30GF00WKW

Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2462 MHz

Medium: 2450 Head; Medium parameters used (interpolated):

$f = 2462 \text{ MHz}$; $\sigma = 1.847 \text{ S/m}$; $\epsilon_r = 37.45$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 10 mm

Test Date: 07/22/2021; Ambient Temp: 23.3°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7640; Conv F(8.76, 8.76, 8.76) @ 2462 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11b, 22 MHz Bandwidth,
Head SAR, Ch 11, 1 Mbps, Front Side,
Titanium, Sport Wristband**

Area Scan (7x7x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

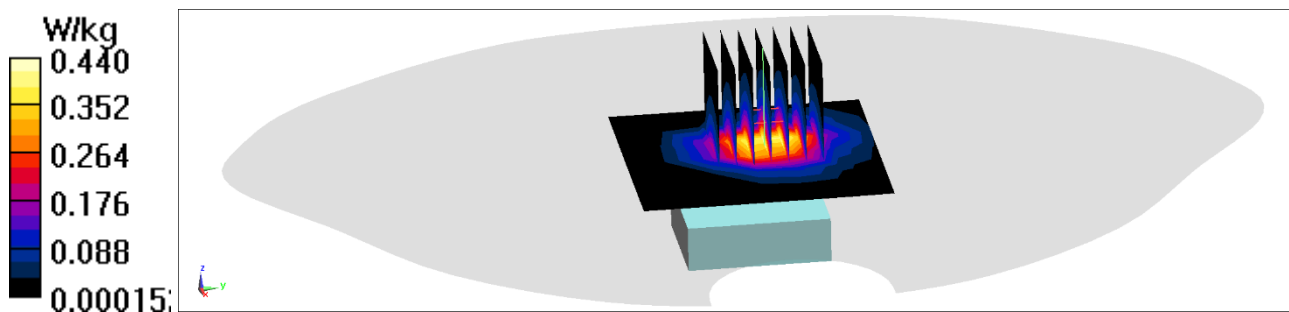
Reference Value = 13.26 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.533 W/kg

SAR(1 g) = 0.288 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: L2J2QVXGK6

Communication System: UID 10417 - AAC, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle); Frequency: 5745 MHz

Medium: 5200-5800 Head; Medium parameters used:
 $f = 5745 \text{ MHz}$; $\sigma = 5.16 \text{ S/m}$; $\epsilon_r = 35.032$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section; Space: 10 mm

Test Date: 07/23/2021; Ambient Temp: 21.1°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7558; Conv F(4.88, 4.88, 4.88) @ 5745 MHz; Calibrated: 10/21/2020
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1364; Calibrated: 10/12/2020
Phantom: Twin-SAM V4.0 ; Type: QD 000 P40 CC; Serial: 1596
Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11a, UNII-3, 20 MHz Bandwidth,
Head SAR, Ch 149, 6 Mbps, Front Side,
Stainless Steel, Metal Links Wristband**

Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

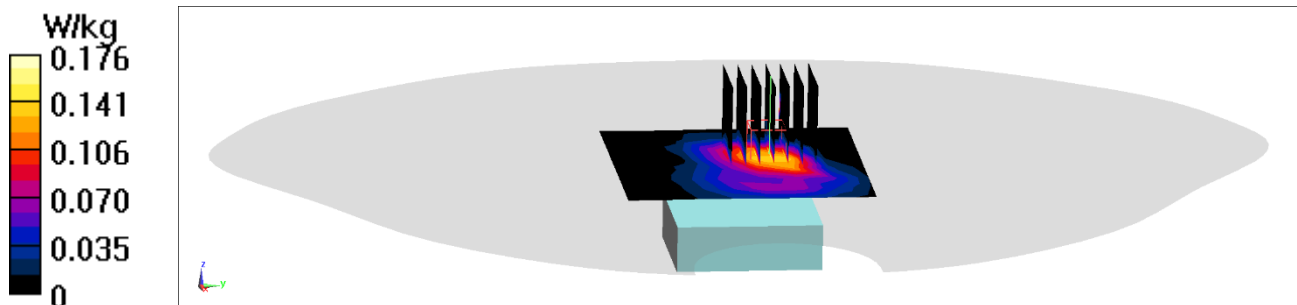
Reference Value = 3.625 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.456 W/kg

SAR(1 g) = 0.061 W/kg

Smallest distance from peaks to all points 3 dB below = N/A

Ratio of SAR at M2 to SAR at M1 = 57.6%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: QWGJK4MV34

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5)

Frequency: 2480 MHz

Medium: 2450 Head; Medium parameters used:

$f = 2480 \text{ MHz}$; $\sigma = 1.846 \text{ S/m}$; $\epsilon_r = 38.596$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 10 mm

Test Date: 07/26/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7640; Conv F(8.76, 8.76, 8.76) @ 2480 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Bluetooth, Head SAR, Ch 78, 1 Mbps, Front Side
Aluminum, Sport Wristband**

Area Scan (7x7x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

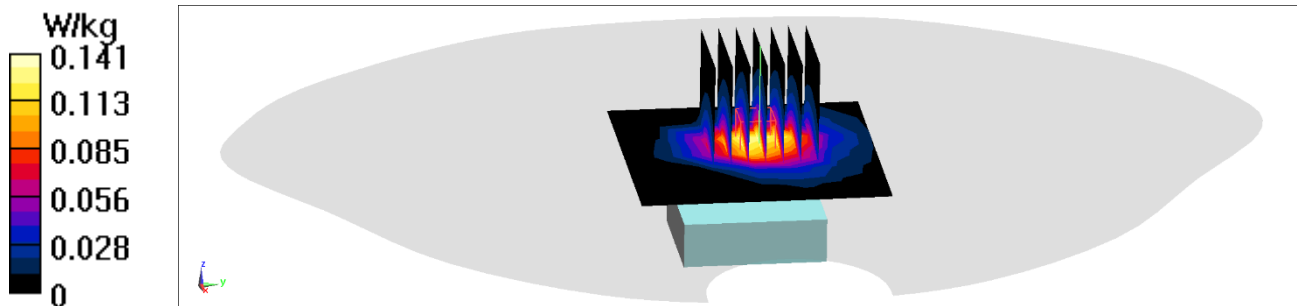
Reference Value = 7.598 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.094 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 56.4%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: QQX7LDF02F

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA)

Frequency: 836.6 MHz

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.6$ MHz; $\sigma = 0.984$ S/m; $\epsilon_r = 53.493$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0 mm

Test Date: 08/02/2021; Ambient Temp: 22.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7640; Conv F(10.71, 10.71, 10.71) @ 836.6 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 850, Extremity SAR, Back side, Mid.ch,
Titanium, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

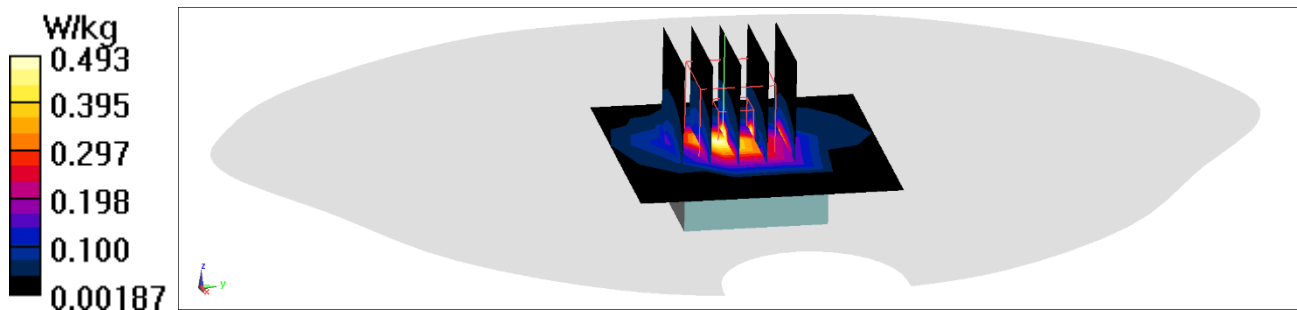
Reference Value = 10.80 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.946 W/kg

SAR(10 g) = 0.090 W/kg

Smallest distance from peaks to all points 3 dB below = N/A

Ratio of SAR at M2 to SAR at M1 = N/A



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: NYJ57CTW3J

Communication System: UID:10011-CAB, WCDMA; MAIA: Y; Frequency: 1732.4 MHz

Medium: 1750 Body; Medium parameters used:

$f = 1732.4$ MHz; Cond = 1.45 S/m; perm = 53.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 06/28/2021; Ambient Temp: 21.3°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7639; Conv F:(9.29,9.29,9.29); Calibrated: 2021-03-03

Sensor-Surface: 1.4mm (All points)

Electronics: DAE4 Sn1646; Calibrated: 2021-01-11

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: UMTS 1750, Extremity SAR. Back side, Mid. Ch,
Titanium, Metal Links Wristband**

Area Scan (90.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

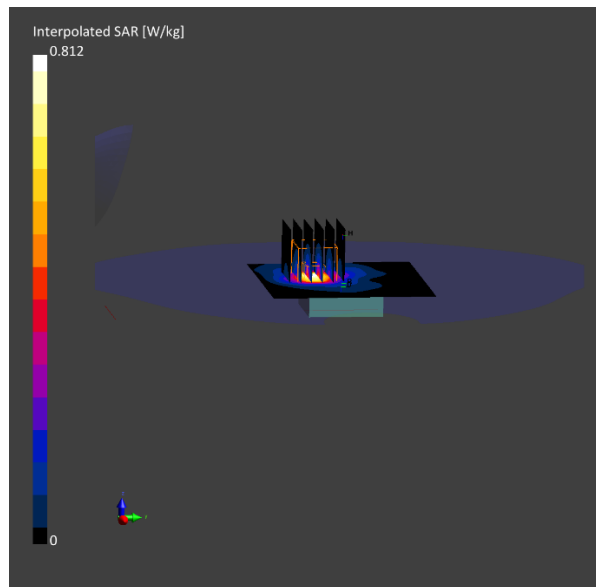
Reference Value = 0.27 W/kg; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.812 W/kg

SAR(10 g) = 0.157 W/kg

Smallest distance from peaks to all points 3 dB below is 7.0 mm

Ratio of SAR at M2 to SAR at M1 = 81.6 %



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: PF2HK6M366

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA)

Frequency: 1880 MHz

Medium: 1900 Body; Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.56 \text{ S/m}$; $\epsilon_r = 52.01$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0 mm

Test Date: 08/05/2021; Ambient Temp: 22.7°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7639; Conv F(8.91, 8.91, 8.91) @ 1880 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1646; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2129

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: UMTS 1900, Extremity SAR, Back side, Mid.ch,
Titanium, Metal Loop Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (10x9x8)/Cube 0: Measurement grid: dx=3.9mm, dy=3.9mm, dz=1.4mm; Graded Ratio: 1.5

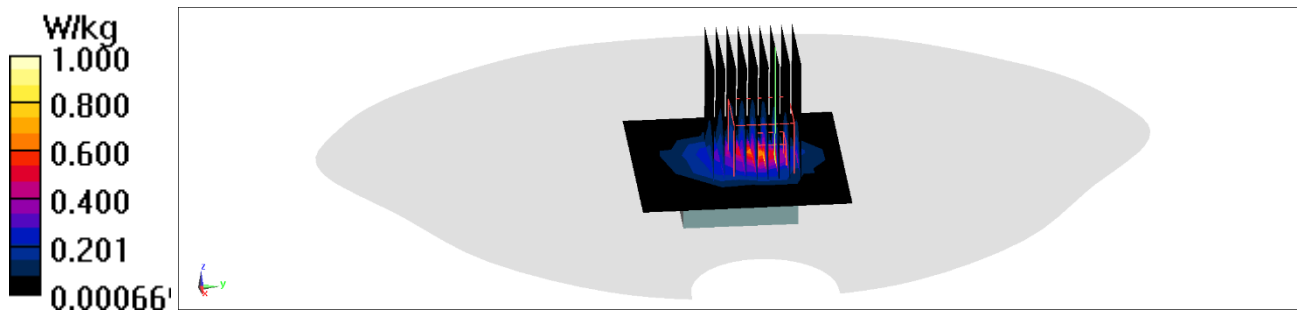
Reference Value = 19.55 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(10 g) = 0.244 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 77.1%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: QGYF9R2W3X

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)
Frequency: 707.5 MHz

Medium: 750 Body; Medium parameters used (interpolated):
 $f = 707.5 \text{ MHz}$; $\sigma = 0.921 \text{ S/m}$; $\epsilon_r = 53.709$; $\rho = 1000 \text{ kg/m}^3$
Phantom section: Flat Section ; Space: 0 mm

Test Date: 08/09/2021; Ambient Temp: 21.2°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7416; Conv F(9.89, 9.89, 9.89) @ 707.5 MHz; Calibrated: 5/18/2021
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
Electronics: DAE4 Sn701; Calibrated: 5/11/2021
Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114
Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 12, Extremity SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset,
Stainless Steel, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (17x17x8)/Cube 0: Measurement grid: $dx=1.9\text{mm}$, $dy=1.9\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

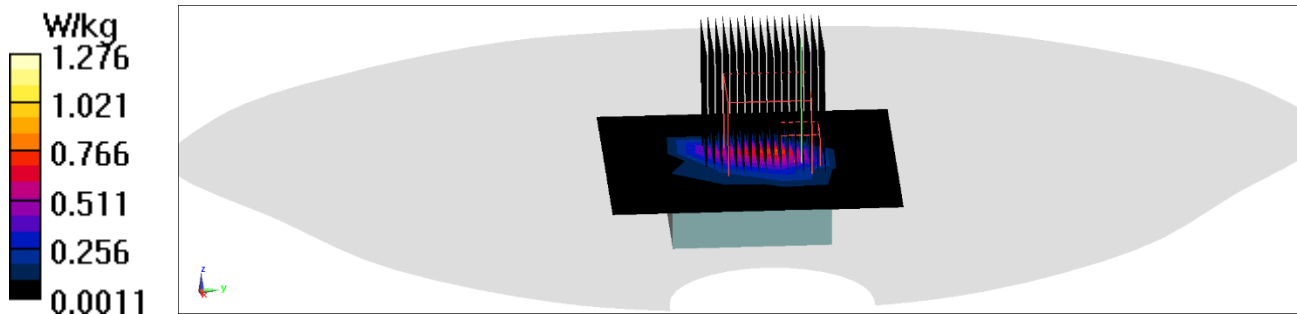
Reference Value = 16.30 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 6.80 W/kg

SAR(10 g) = 0.087 W/kg

Smallest distance from peaks to all points 3 dB below = N/A

Ratio of SAR at M2 to SAR at M1 = 42.6%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: VJ92MGWVQW

Communication System: UID:10175-CAG, LTE-FDD; MAIA: Y; Frequency: 782.0 MHz

Medium: 750 Body; Medium parameters used:

$f = 782.0$ MHz; Cond = 0.97 S/m; perm = 53.5; density = 1000 kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 08/11/2021; Ambient Temp: 22.0°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7416; Conv F:(9.89,9.89,9.89); Calibrated: 2021-05-18

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn701; Calibrated: 2021-05-11

Phantom: Twin-SAM V4.0; Serial: 1357

Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: LTE Band 13, Extremity SAR, Back Side, Mid Ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset,
Aluminum, Metal Links Wristband**

Area Scan (90.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=3.6 mm, dy=3.6 mm, dz=1.4 mm; Graded Ratio: 1.4

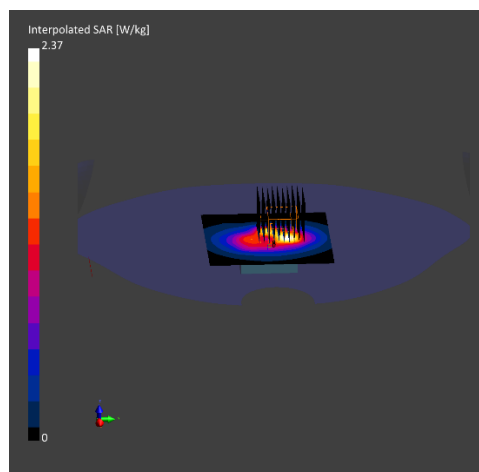
Reference Value = 0.30 W/kg; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(10 g) = 0.180 W/kg

Smallest distance from peaks to all points 3 dB below > 3.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.5 %



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: W14LM2YY40

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)

Frequency: 793 MHz

Medium: 750 Body; Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 1.003 \text{ S/m}$; $\epsilon_r = 53.073$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 0 mm

Test Date: 07/27/2021; Ambient Temp: 21.2°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7416; Conv F(9.89, 9.89, 9.89) @ 793 MHz; Calibrated: 5/18/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 5/11/2021

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 14, Extremity SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset,
Titanium, Metal Loop Wristband**

Area Scan (8x8x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

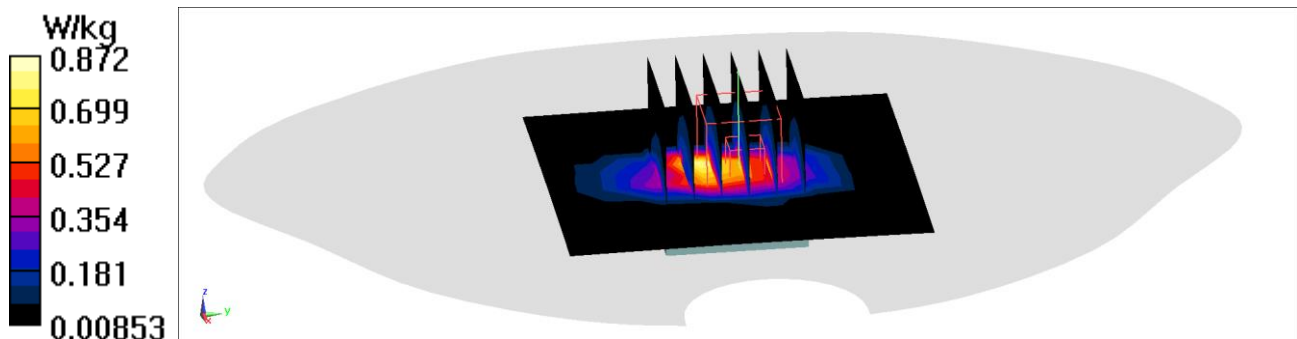
Reference Value = 18.54 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(10 g) = 0.252 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 41.9%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: Y09C9Y7XKN

Communication System: UID:10175-CAG, LTE-FDD; MAIA: Y; Frequency: 831.5 MHz

Medium: 835 Body; Medium parameters used:

$f = 831.5$ MHz; Cond = 1.00 S/m; perm = 52.8; density = 1000 kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 08/19/2021; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: EX3DV4 – SN7416; Conv F:(9.66,9.66,9.66); Calibrated: 2021-05-18

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn701; Calibrated: 2021-05-11

Phantom: Twin-SAM V4.0; Serial: 1357

Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: LTE Band 26, Extremity SAR, Back Side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset,
Titanium, Metal Links Wristband**

Area Scan (90.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=3.5 mm, dy=3.5 mm, dz=1.2 mm; Graded Ratio: 1.2

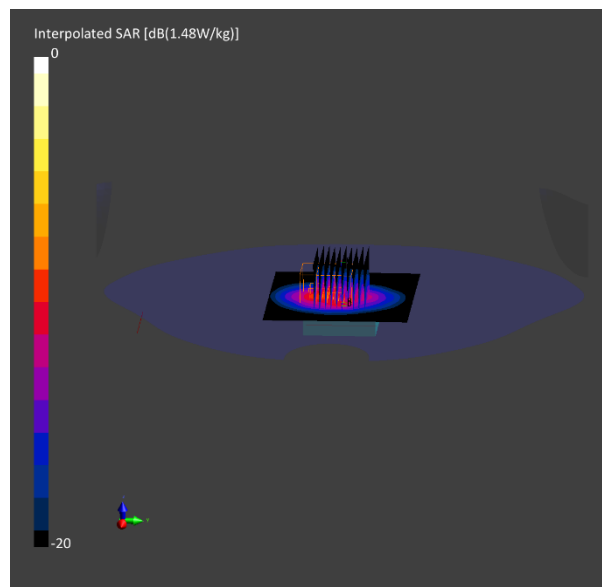
Reference Value = 0.29 W/kg; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(10 g) = 0.106 W/kg

Smallest distance from peaks to all points 3 dB below > 3.5 mm

Ratio of SAR at M2 to SAR at M1 = 54.1 %



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: VJ92MGWVQW

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)

Frequency: 836.5 MHz

Medium: 835 Body; Medium parameters used (interpolated):

$f = 836.5$ MHz; $\sigma = 0.988$ S/m; $\epsilon_r = 54.545$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0 mm

Test Date: 07/27/2021; Ambient Temp: 20.7°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3949; Conv F(10.26, 10.26, 10.26) @ 836.5 MHz; Calibrated: 8/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/13/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 5 (Cell.), Extremity SAR, Back side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset,
Aluminum, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (12x12x8)/Cube 0: Measurement grid: dx=2.8mm, dy=2.8mm, dz=1.4mm; Graded Ratio: 1.4

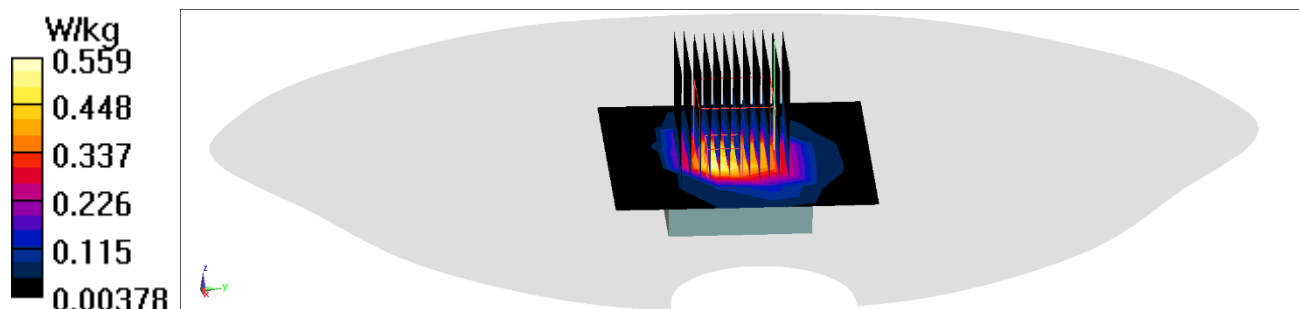
Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(10 g) = 0.113 W/kg

Smallest distance from peaks to all points 3 dB below = 3.8 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: H919X012VC

Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)

Frequency: 1720 MHz

Medium: 1750 Body; Medium parameters used:

$f = 1720 \text{ MHz}$; $\sigma = 1.47 \text{ S/m}$; $\epsilon_r = 54.326$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0 mm

Test Date: 06/20/2021; Ambient Temp: 21.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7639; Conv F(9.29, 9.29, 9.29) @ 1720 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1646; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2129

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 66 (AWS), Extremity SAR, Back side, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset,
Stainless Steel, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (9x9x8)/Cube 0: Measurement grid: $dx=4.8\text{mm}$, $dy=4.8\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

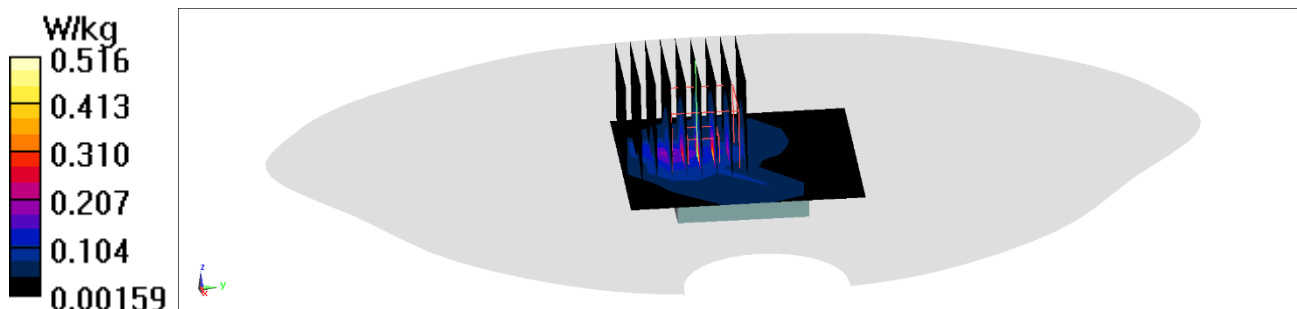
Reference Value = 11.24 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.682 W/kg

SAR(10 g) = 0.124 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 80.5%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: PF2HK6M366

Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)

Frequency: 1882.5 MHz

Medium: 1900 Body; Medium parameters used (interpolated):

$f = 1882.5$ MHz; $\sigma = 1.534$ S/m; $\epsilon_r = 51.949$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Space: 0 mm

Test Date: 08/09/2021; Ambient Temp: 23.1°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7640; Conv F(9.06, 9.06, 9.06) @ 1882.5 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: LTE Band 25 (PCS), Extremity SAR, Back side, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset,
Titanium, Metal Links Wristband**

Area Scan (6x6x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=3.8mm, dy=3.8mm, dz=1.4mm; Graded Ratio: 1.5

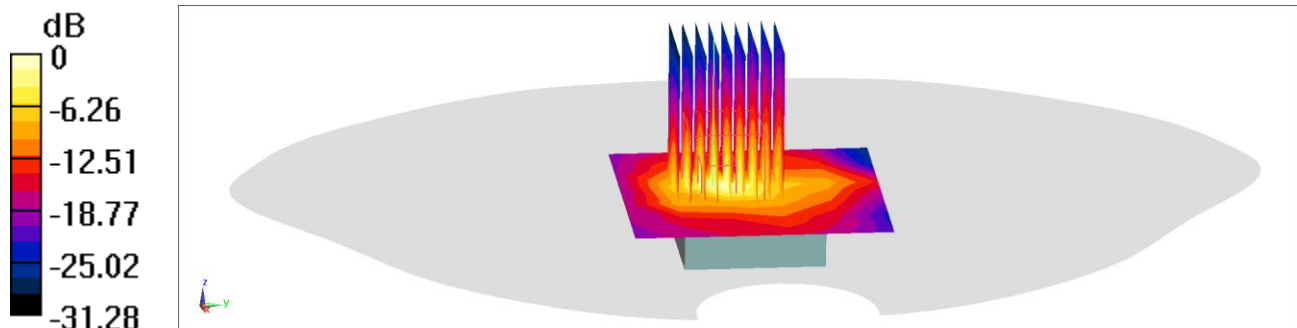
Reference Value = 19.61 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.26 W/kg

SAR(10 g) = 0.191 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 78.1%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: QWGJK4MV34

Communication System: UID:10169-CAE, LTE-FDD; MAIA: Y; Frequency: 2510.0 MHz

Medium: 2450 Body; Medium parameters used:

$f = 2510.0$ MHz; Cond = 2.07 S/m; perm = 52.7; density = 1000 kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 07/19/2021; Ambient Temp: 21.5°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7532; Conv F:(7.64,7.64,7.64); Calibrated: 2021-04-19

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn501; Calibrated: 2021-04-13

Phantom: Twin-SAM V4.0; Serial: 1275

Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: LTE Band 7, Extremity SAR, Back Side, Low Ch.,
20 MHz Bandwidth, QPSK, 1 RB, 0 RB Offset,
Aluminum, Metal Loop Wristband**

Area Scan (80.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

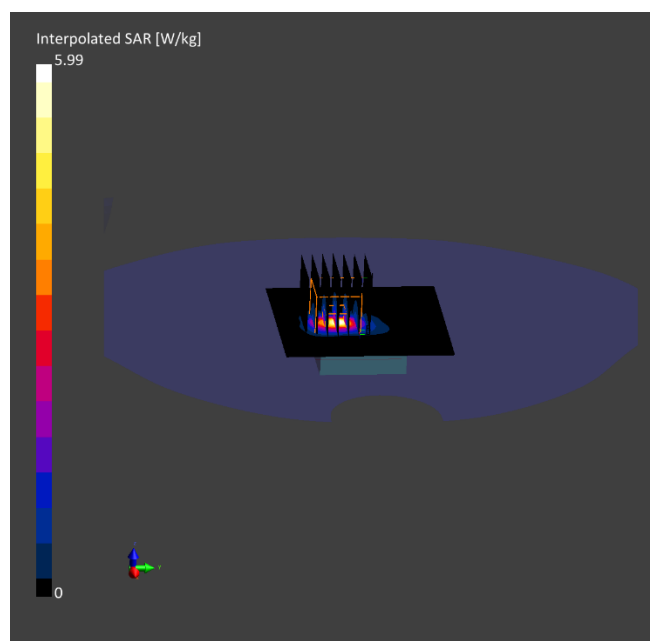
Reference Value = 3.57 W/kg; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 5.99 W/kg

SAR(10 g) = 0.830 W/kg

Smallest distance from peaks to all points 3 dB below is 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 78.6 %



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: FVVWGJ196K

Communication System: UID:10435-AAF, LTE-TDD; MAIA: Y; Frequency: 2680.0 MHz

Medium: 2450 Body; Medium parameters used:

$f = 2680.0$ MHz; Cond = 2.22 S/m; perm = 51.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 07/21/2021; Ambient Temp: 22.1°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7532; Conv F:(7.28,7.28,7.28); Calibrated: 2021-04-19

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn501; Calibrated: 2021-04-13

Phantom: Twin-SAM V4.0; Serial: 1275

Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: LTE Band 41, Extremity SAR, Back Side, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 RB Offset,
Aluminum, Metal Loop Wristband**

Area Scan (80.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

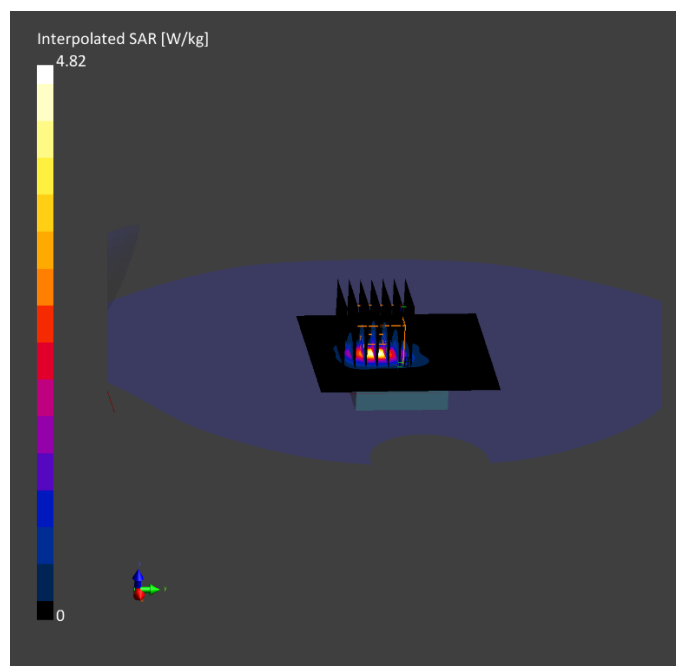
Reference Value = 2.93 W/kg; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 4.82 W/kg

SAR(10 g) = 0.687 W/kg

Smallest distance from peaks to all points 3 dB below is 7.0 mm

Ratio of SAR at M2 to SAR at M1 = 79.0 %



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: YX21TF2M4R

Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2462 MHz

Medium: 2450 Body; Medium parameters used (interpolated):

$f = 2462 \text{ MHz}$; $\sigma = 2.037 \text{ S/m}$; $\epsilon_r = 52.505$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0 mm

Test Date: 07/18/2021; Ambient Temp: 22.7°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7558; Conv F(7.64, 7.64, 7.64) @ 2462 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0 ; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11b, 22 MHz Bandwidth,
Extremity SAR, Ch 11, 1 Mbps, Back Side,
Aluminum, Metal Links Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

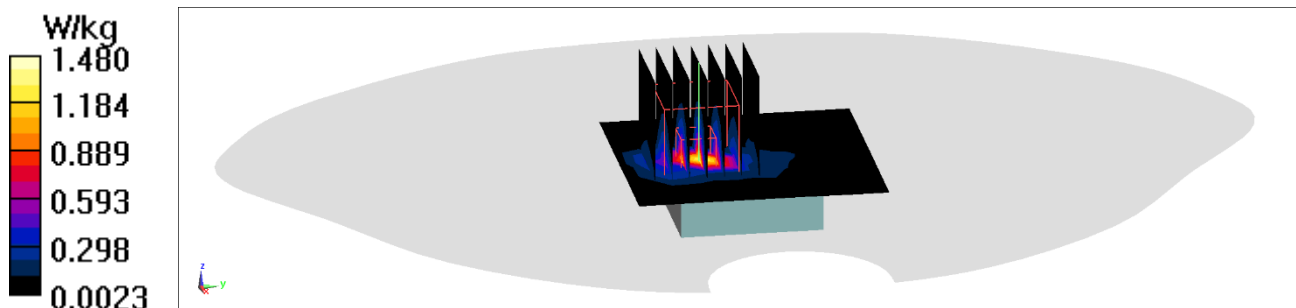
Reference Value = 23.06 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(10 g) = 0.264 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 51.5%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: X30GF00WKW

Communication System: UID 10417 - AAC, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle); Frequency: 5745 MHz

Medium: 5200-5800 Body; Medium parameters used:

$f = 5745$ MHz; $\sigma = 6.131$ S/m; $\epsilon_r = 47.331$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0 mm

Test Date: 07/23/2021; Ambient Temp: 21.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7638; Conv F(4.32, 4.32, 4.32) @ 5745 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1644; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2027

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: IEEE 802.11a, UNII-3, 20 MHz Bandwidth,
Extremity SAR, Ch 149, 6 Mbps, Back Side,
Titanium, Metal Links Wristband**

Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (9x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

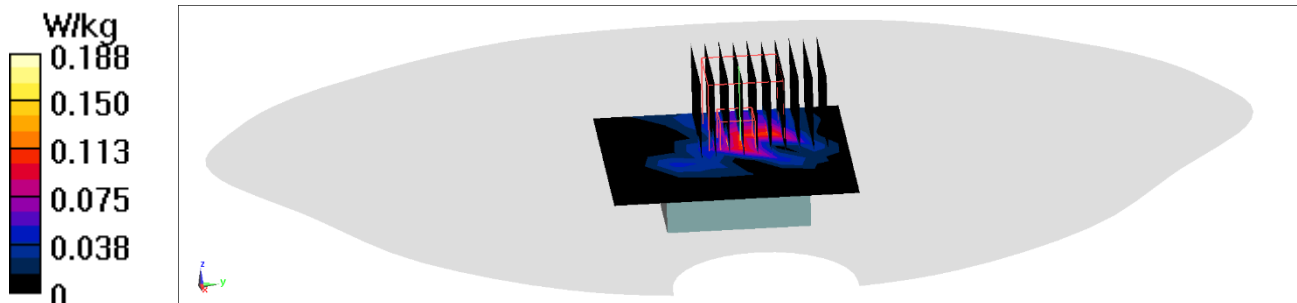
Reference Value = 2.855 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.473 W/kg

SAR(10 g) = 0.015 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 47.3%



PCTEST

DUT: BCG-A2475; Type: Watch; Serial: NWXGYWTN2R

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5)

Frequency: 2480 MHz

Medium: 2450 Body; Medium parameters used:

$f = 2480$ MHz; $\sigma = 2.069$ S/m; $\epsilon_r = 50.961$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0 mm

Test Date: 07/27/2021; Ambient Temp: 22.7°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7640; Conv F(8.92, 8.92, 8.92) @ 2480 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

**Mode: Bluetooth, Extremity SAR, Ch 78, 1 Mbps, Back Side,
Aluminum, Metal Loop Wristband**

Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

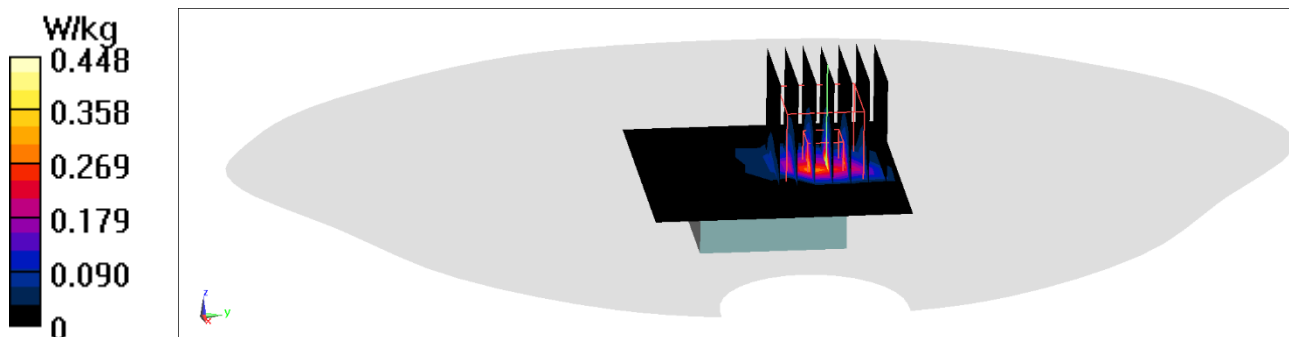
Reference Value = 12.12 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.567 W/kg

SAR(10 g) = 0.080 W/kg

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 48%



PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1057

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.875 \text{ S/m}$; $\epsilon_r = 42.468$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 15 mm

Test Date: 06/27/2021; Ambient Temp: 21.2°C; Tissue Temp: 20.7°C

Probe: EX3DV4 - SN7421; Conv F(9.34, 9.34, 9.34) @ 750 MHz; Calibrated: 3/17/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn604; Calibrated: 3/10/2021

Phantom: Twin-SAM V8.0, Right; Type: QD 000 P41 AA; Serial: 1944

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

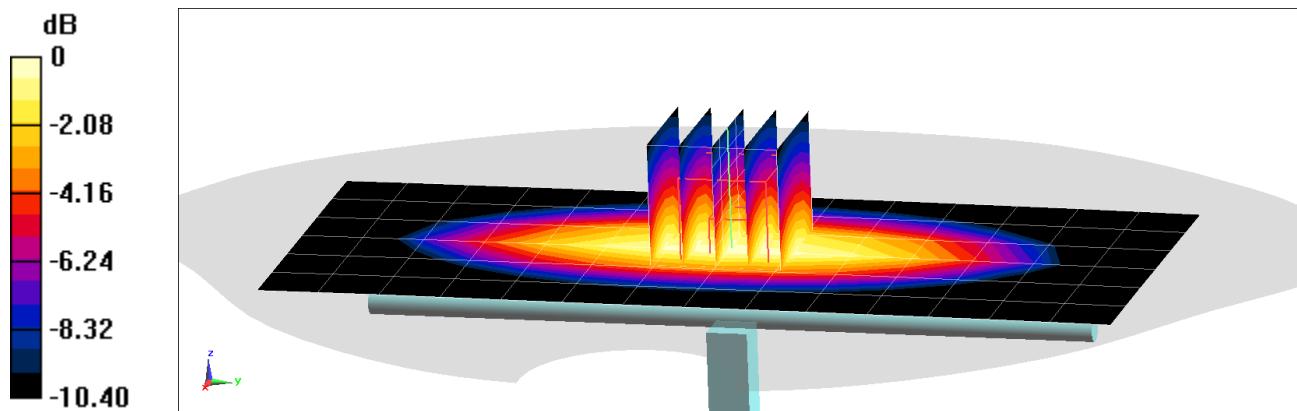
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 1.71 W/kg

Deviation(1 g) = 0.35%



0 dB = 2.27 W/kg = 3.56 dBW/kg

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1057

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.905 \text{ S/m}$; $\epsilon_r = 42.133$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 15 mm

Test Date: 08/06/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.6°C

Probe: EX3DV4 - SN7640; Conv F(11.14, 11.14, 11.14) @ 750 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

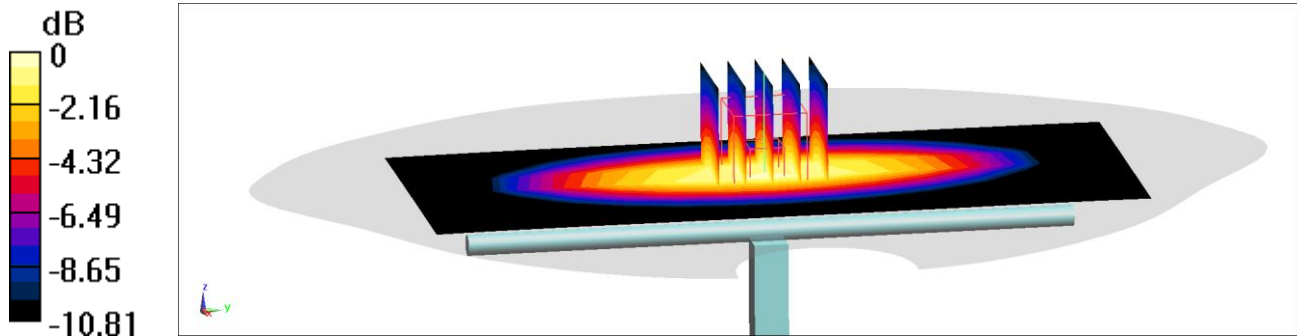
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.79 W/kg

SAR(1 g) = 1.81 W/kg

Deviation(1 g) = 6.22%



0 dB = 2.45 W/kg = 3.89 dBW/kg

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1057

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Head; Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.873 \text{ S/m}$; $\epsilon_r = 43.23$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 08/09/2021; Ambient Temp: 23.5°C; Tissue Temp: 21.8°C

Probe: EX3DV4 - SN7558; Conv F(10.31, 10.31, 10.31) @ 750 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0 ; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

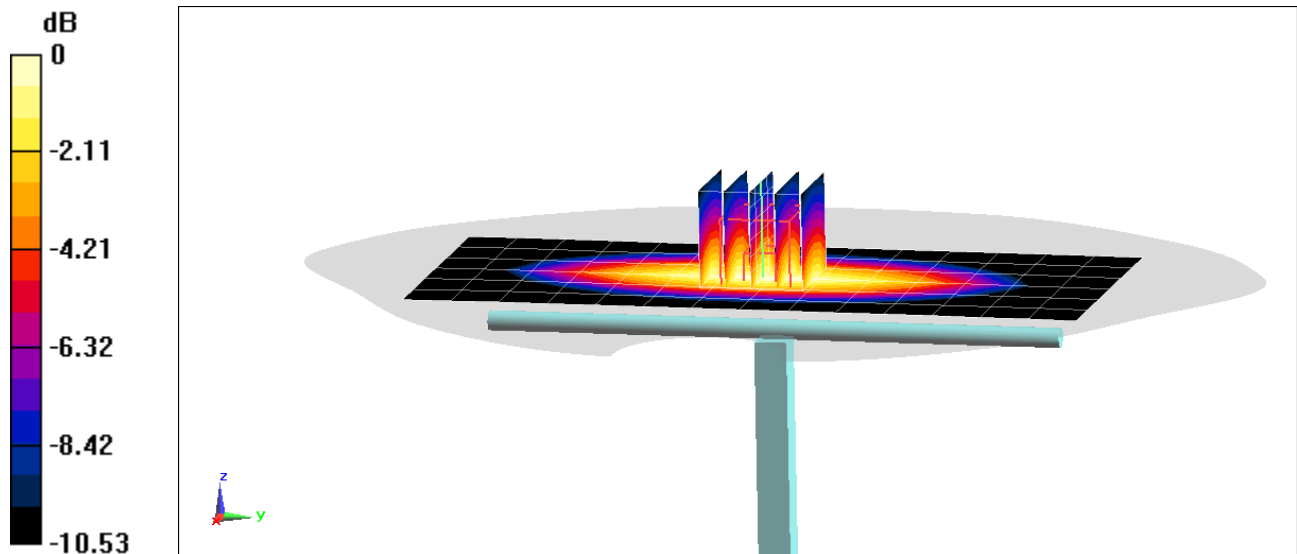
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.67 W/kg

SAR(1 g) = 1.75 W/kg

Deviation(1 g) = 2.70%



0 dB = 2.37 W/kg = 3.75 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.926 \text{ S/m}$; $\epsilon_r = 40.377$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 15 mm

Test Date: 07/21/2021; Ambient Temp: 24.5°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7427; Conv F(9.8, 9.8, 9.8) @ 835 MHz; Calibrated: 2/17/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/11/2021

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

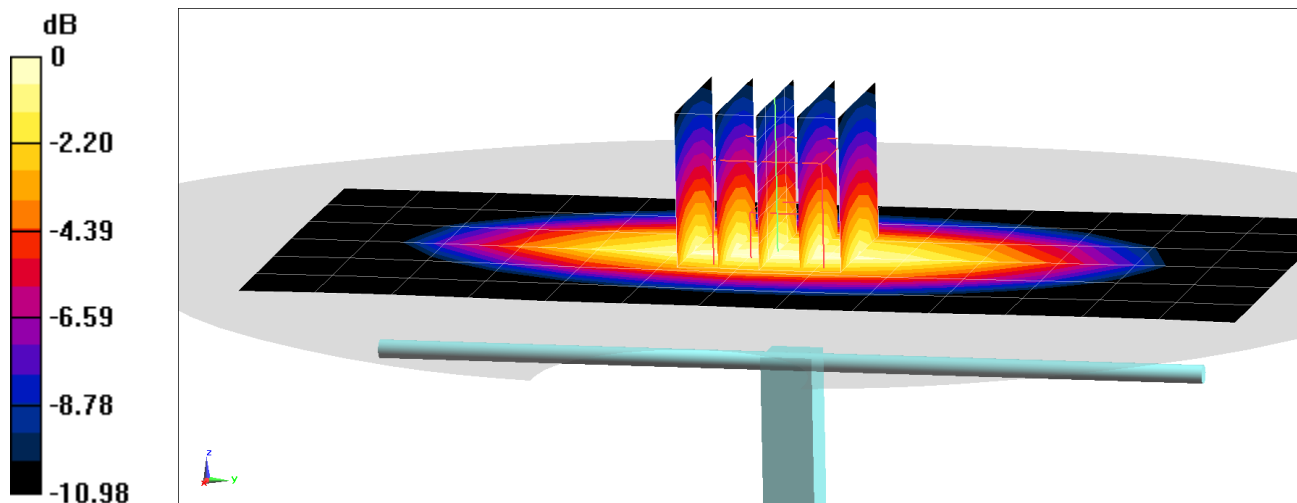
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.06 W/kg

SAR(1 g) = 1.99 W/kg

Deviation(1 g) = 4.74%



0 dB = 2.71 W/kg = 4.33 dBW/kg

PCTEST

DUT: Dipole 850 MHz; Type: D850V2; Serial: 1010

Communication System: UID 0, CW (0); Frequency: 850 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used:

$f = 850 \text{ MHz}$; $\sigma = 0.945 \text{ S/m}$; $\epsilon_r = 40.01$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 15 mm

Test Date: 07/27/2021; Ambient Temp: 23.7°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7639; Conv F(10.56, 10.56, 10.56) @ 850 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1646; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2129

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

850 MHz System Verification at 23.0 dBm (200 mW)

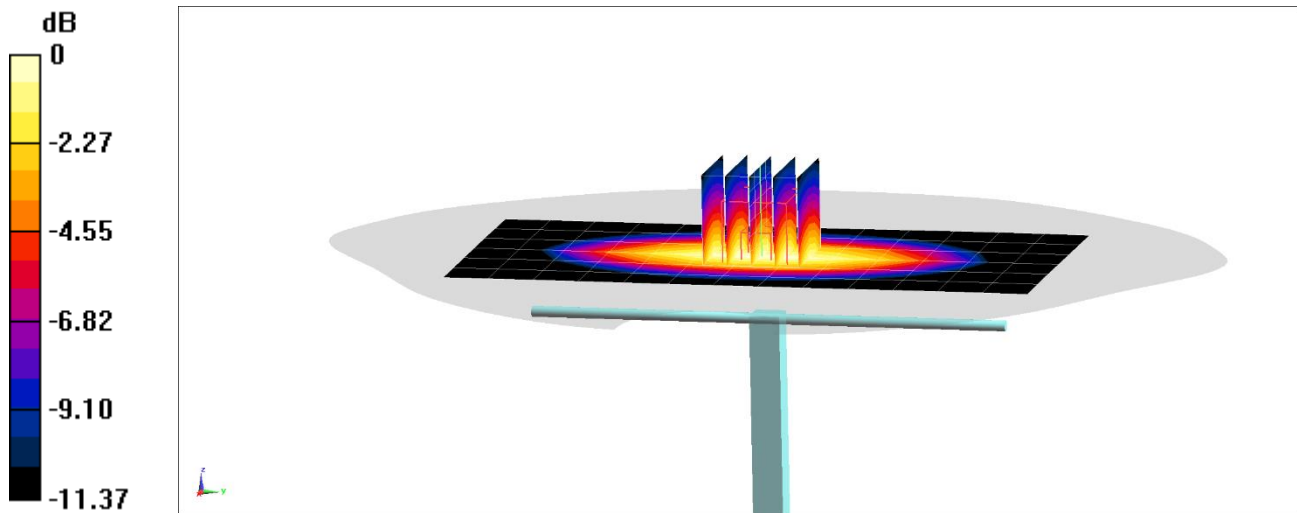
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.36 W/kg

SAR(1 g) = 2.09 W/kg

Deviation(1 g) = 6.20%



0 dB = 2.90 W/kg = 4.62 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Head; Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.938 \text{ S/m}$; $\epsilon_r = 40.831$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 07/30/2021; Ambient Temp: 20.4°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN3949; Conv F(10.23, 10.23, 10.23) @ 835 MHz; Calibrated: 8/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/13/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

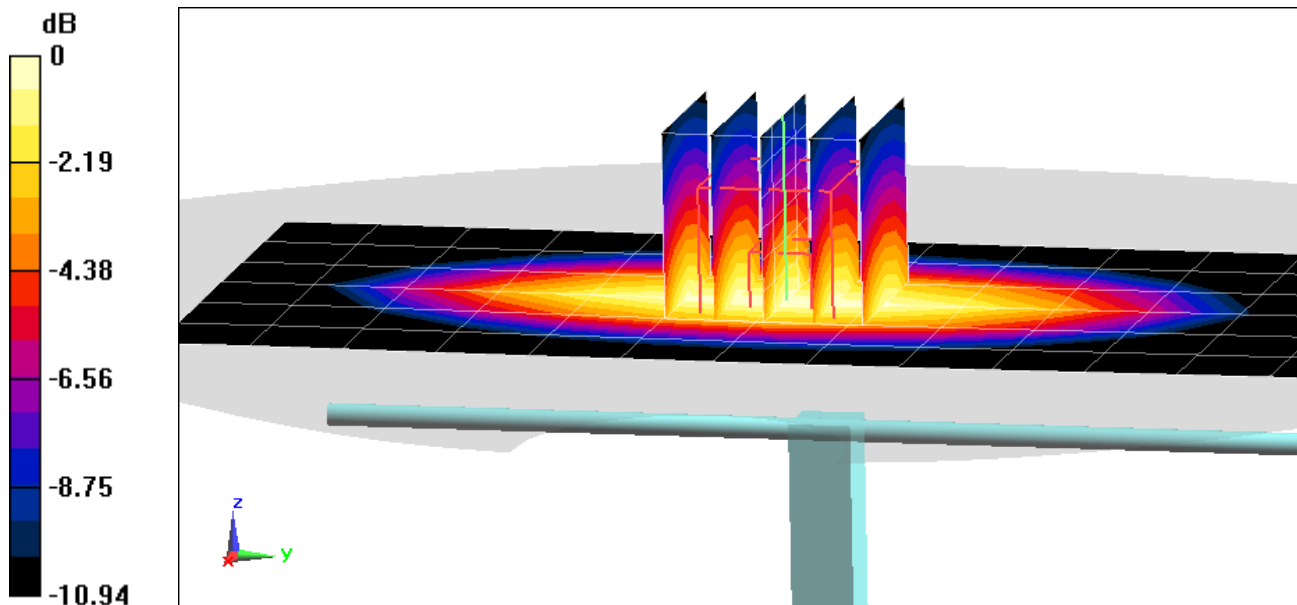
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 3.12 W/kg

SAR(1 g) = 2.05 W/kg

Deviation(1 g) = 7.89%



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1083

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Head; Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.356 \text{ S/m}$; $\epsilon_r = 38.659$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 06/20/2021; Ambient Temp: 21.7°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3949; Conv F(8.83, 8.83, 8.83) @ 1750 MHz; Calibrated: 8/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/13/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

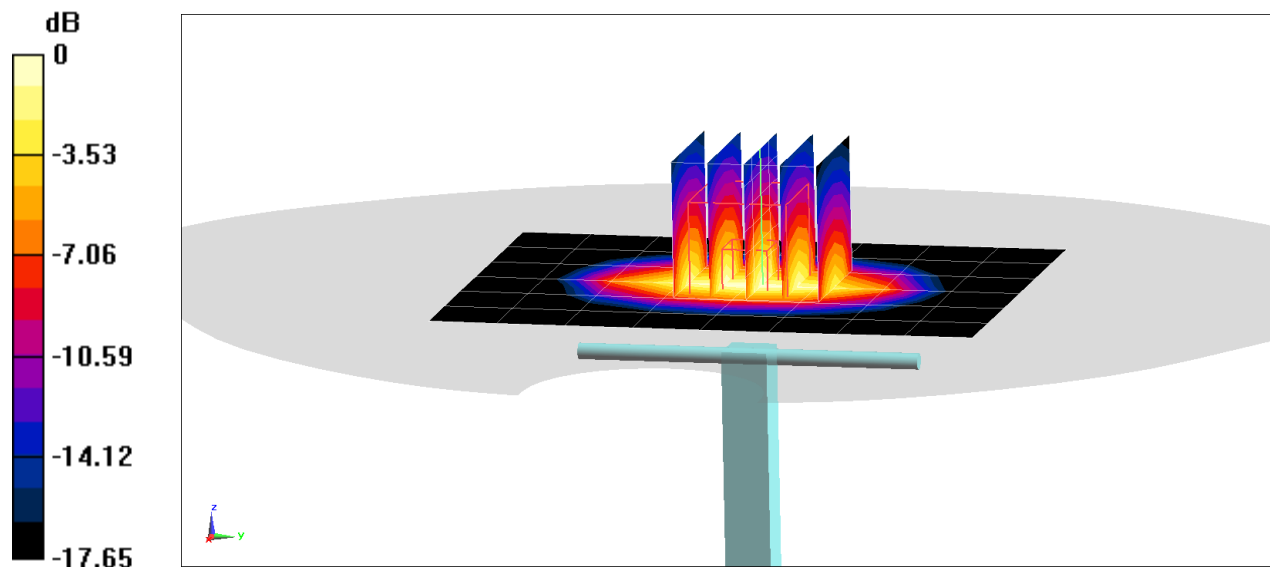
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.08 W/kg

SAR(1 g) = 3.88 W/kg

Deviation(1 g) = 7.48%



0 dB = 5.95 W/kg = 7.75 dBW/kg

PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1083

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Head; Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.375 \text{ S/m}$; $\epsilon_r = 39.194$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/20/2021; Ambient Temp: 23.3°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7640; Conv F(9.49, 9.49, 9.49) @ 1750 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

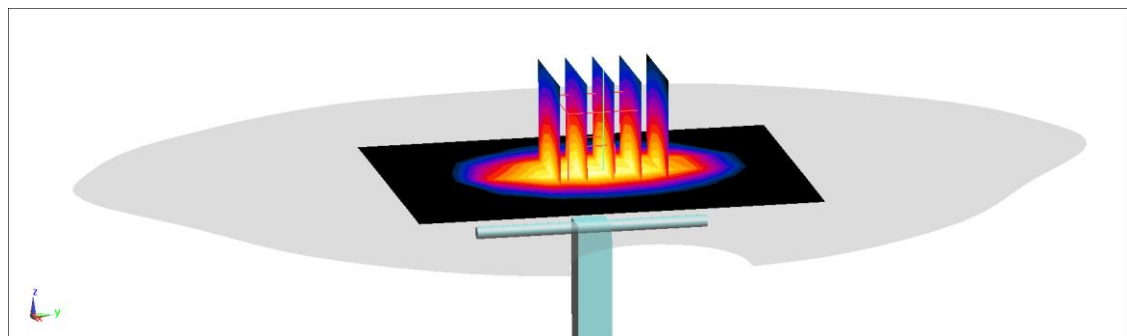
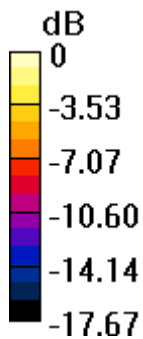
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.16 W/kg

SAR(1 g) = 3.8 W/kg

Deviation(1 g) = 5.26%



0 dB = 5.93 W/kg = 7.73 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d030

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Head; Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.438 \text{ S/m}$; $\epsilon_r = 38.415$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 06/20/2021; Ambient Temp: 22.9°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7427; Conv F(8.25, 8.25, 8.25) @ 1900 MHz; Calibrated: 2/17/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1403; Calibrated: 2/11/2021

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1179

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

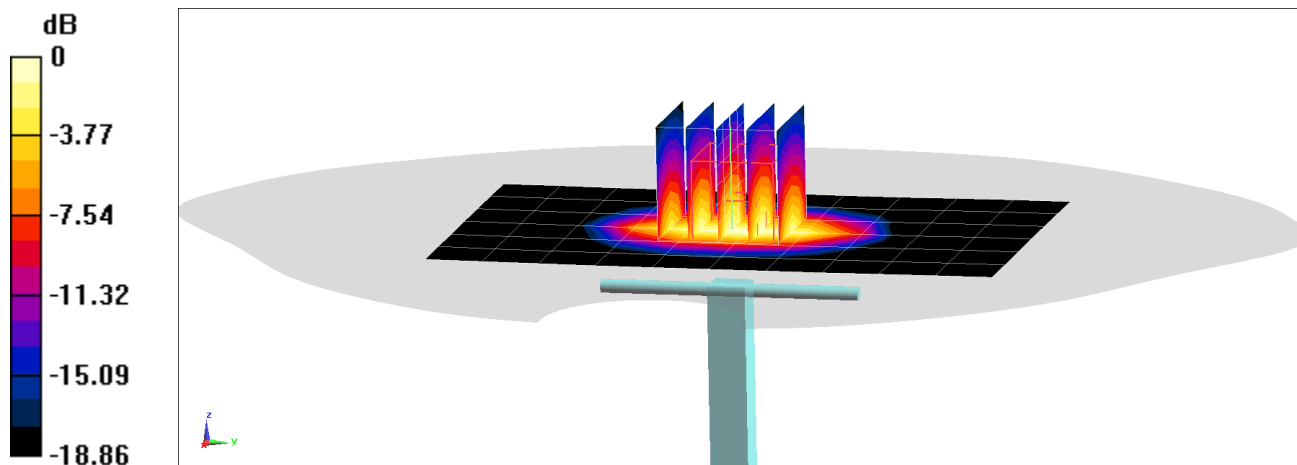
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.56 W/kg

SAR(1 g) = 4 W/kg

Deviation(1 g) = 0.25%



0 dB = 6.24 W/kg = 7.95 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d181

Communication System: UID: 0, CW; Frequency: 1900.0 MHz
Medium: 1900 Head; Medium parameters used:
 $f = 1900.0$ MHz; $\text{Cond} = 1.46$ S/m; $\text{perm} = 39.1$; $\text{density} = 1000$ kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 07/21/2021; Ambient Temp: 22.0°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7639; Conv F:(8.86,8.86,8.86); Calibrated: 2021-03-03
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1646; Calibrated: 2021-01-11
Phantom: Twin-SAM V8.0; Serial: 2029
Measurement SW: cDASY6 Module SAR V6.14.0.959

1900 MHz System Verification at 20.0 dBm

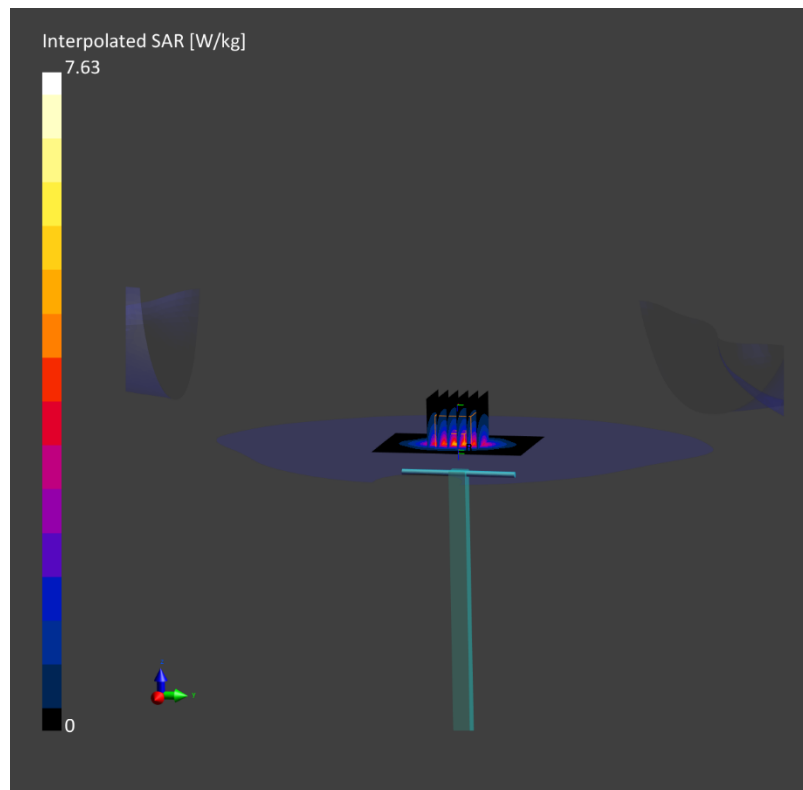
Area Scan (60.0 x 90.0): Measurement grid: $dx=15.0$ mm, $dy=15.0$ mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: $dx=6.0$ mm, $dy=6.0$ mm, $dz=1.5$ mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 7.63 W/kg

SAR(1 g) = 4.01 W/kg

Deviation (1 g) = 0.00%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used

$f = 2450 \text{ MHz}$; $\sigma = 1.825 \text{ S/m}$; $\epsilon_r = 38.923$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 06/18/2021; Ambient Temp: 20.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN3949; Conv F(7.8, 7.8, 7.8) @ 2450 MHz; Calibrated: 8/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/13/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

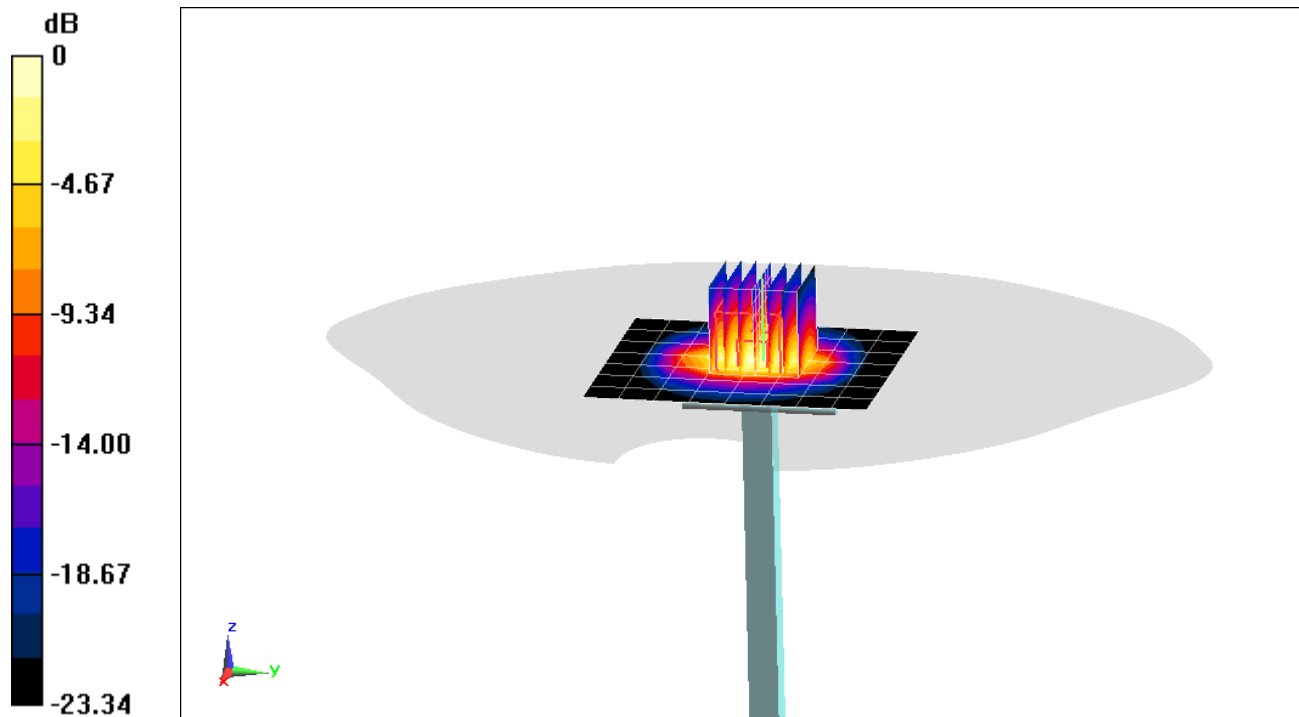
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.45 W/kg

Deviation(1 g) = 2.64%



0 dB = 9.05 W/kg = 9.57 dBW/kg

PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 750

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2450.0 MHz; Cond = 1.86 S/m; perm = 39.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 06/28/2021; Ambient Temp: 21.1°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3837; Conv F:(7.39,7.39,7.39); Calibrated: 2021-01-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn793; Calibrated: 2021-01-13
Phantom: Twin-SAM V8.0; Serial: 1736
Measurement SW: cDASY6 Module SAR V6.14.0.959

2450.0 MHz System Verification at 20.0 dBm

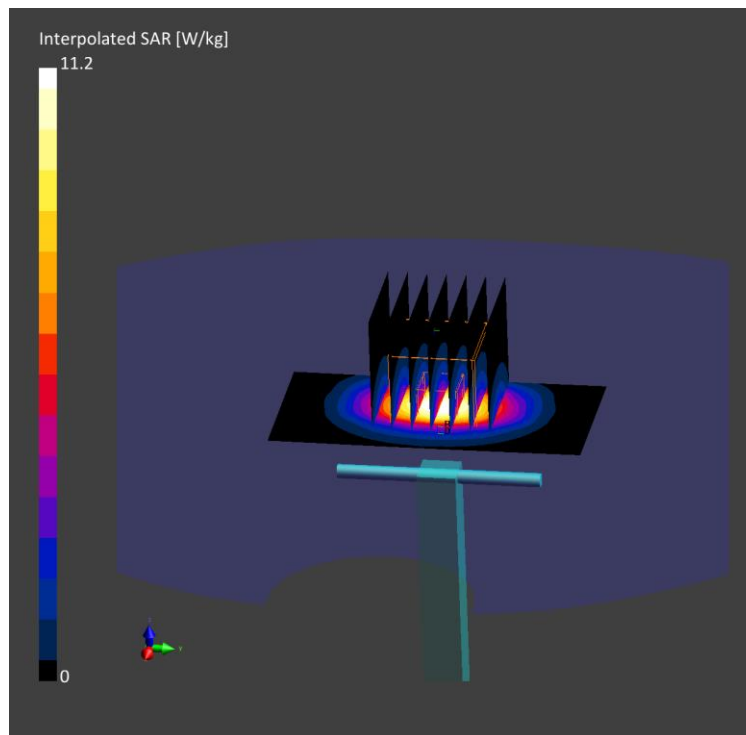
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0mm, dy=5.0mm, dz=1.5mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 5.11 W/kg

Deviation (1 g) = -3.77%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.839 \text{ S/m}$; $\epsilon_r = 37.47$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/22/2021; Ambient Temp: 23.3°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN7640; Conv F(8.76, 8.76, 8.76) @ 2450 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

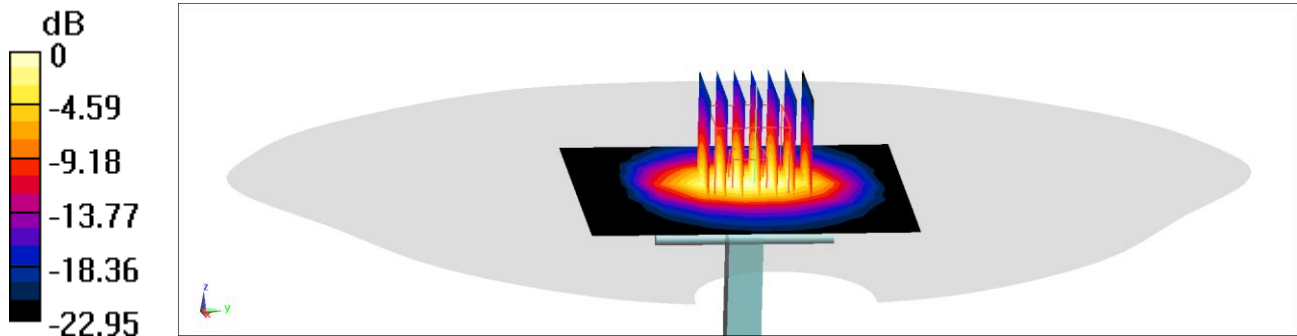
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.03 W/kg

Deviation(1 g) = -5.27%



0 dB = 8.40 W/kg = 9.24 dBW/kg

PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.825 \text{ S/m}$; $\epsilon_r = 38.641$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 07/26/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.8°C

Probe: EX3DV4 - SN7640; Conv F(8.76, 8.76, 8.76) @ 2450 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

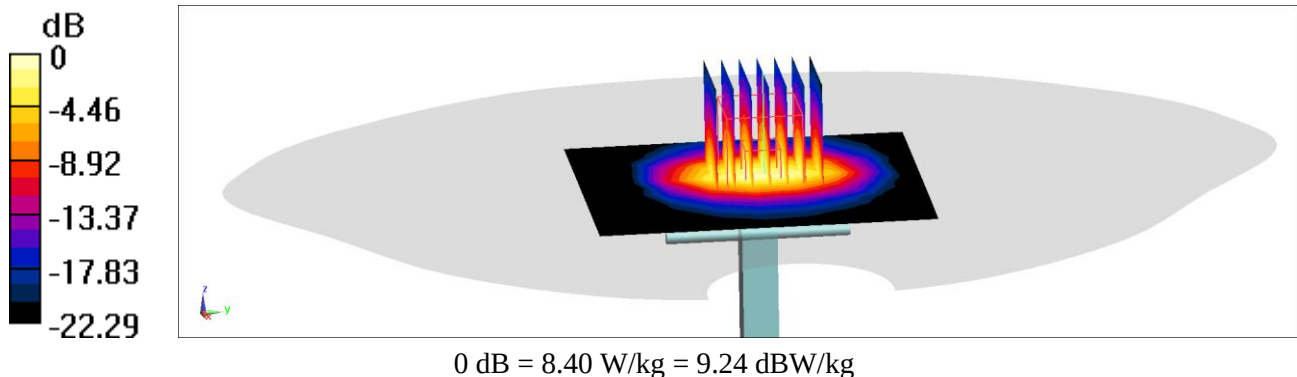
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 10.4 W/kg

SAR(1 g) = 4.99 W/kg

Deviation(1 g) = -6.03%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 921

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used

$f = 2450 \text{ MHz}$; $\sigma = 1.786 \text{ S/m}$; $\epsilon_r = 38.827$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 08/12/2021; Ambient Temp: 22.5°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7558; Conv F(7.62, 7.62, 7.62) @ 2450 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0 ; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

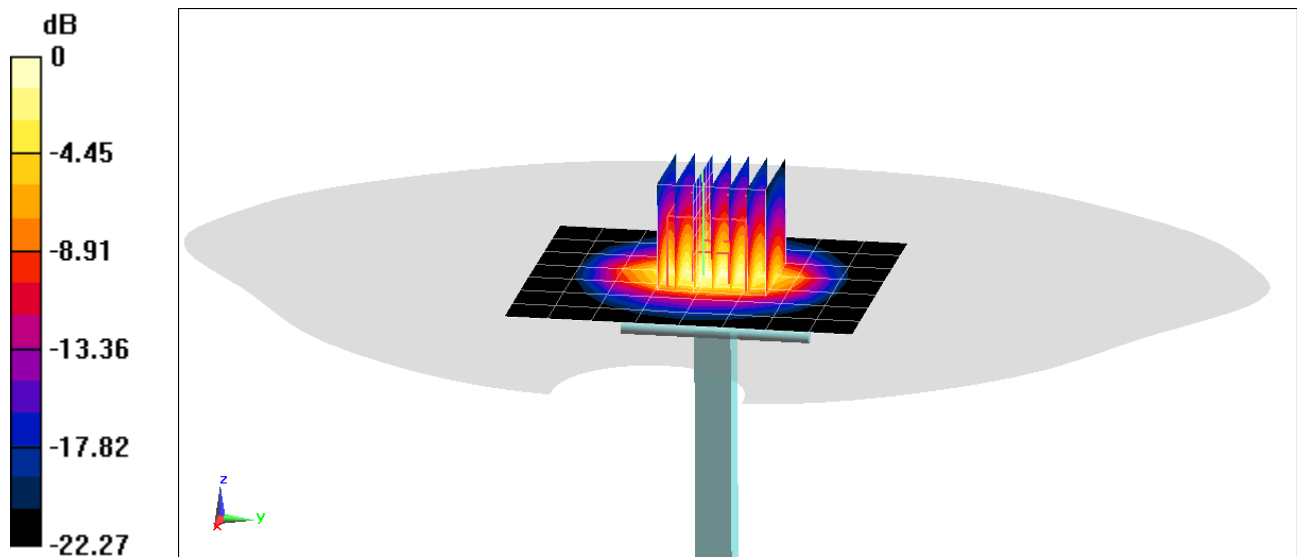
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.1 W/kg

SAR(1 g) = 5.38 W/kg

Deviation(1 g) = 1.32%



0 dB = 8.90 W/kg = 9.49 dBW/kg

PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1069

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used:

$f = 2600 \text{ MHz}$; $\sigma = 1.944 \text{ S/m}$; $\epsilon_r = 38.698$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 10 mm

Test Date: 06/18/2021; Ambient Temp: 20.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN3949; Conv F(7.59, 7.59, 7.59) @ 2600 MHz; Calibrated: 8/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/13/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

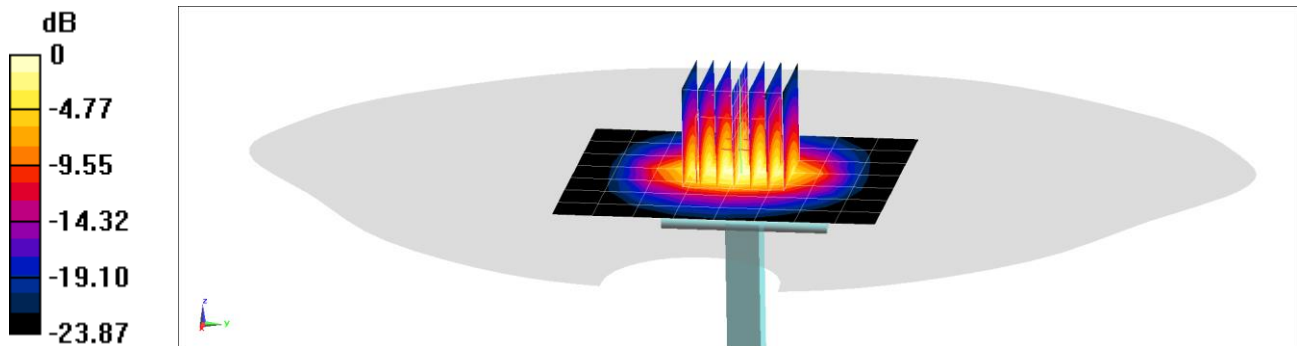
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 5.67 W/kg

Deviation(1 g) = 1.98%



0 dB = 9.70 W/kg = 9.87 dBW/kg

PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1042

Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Head; Medium parameters used:
 $f = 2600.0$ MHz; Cond = 2.02 S/m; perm = 38.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 06/28/2021; Ambient Temp: 21.1°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3837; Conv F:(7.13,7.13,7.13); Calibrated: 2021-01-18

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn793; Calibrated: 2021-01-13

Phantom: Twin-SAM V8.0; Serial: 1736

Measurement SW: cDASY6 Module SAR V6.14.0.959

2600.0 MHz System Verification at 20.0 dBm

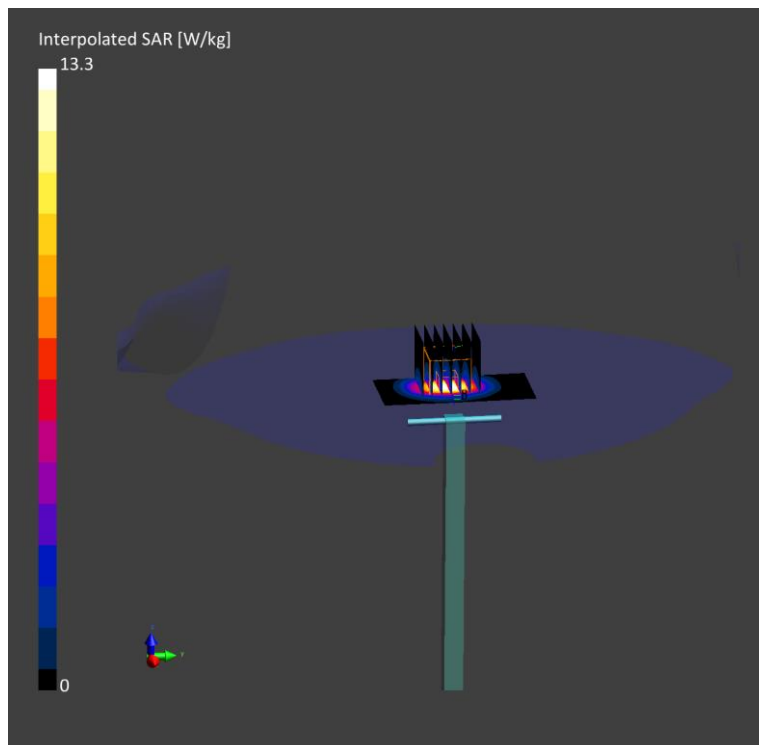
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 13.3 W/kg

SAR(1 g) = 5.97 W/kg

Deviation (1 g) = 3.47%



PCTEST

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1042

Communication System: UID 0, CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: 2450 Head; Medium parameters used

$f = 2600$ MHz; $\sigma = 1.902$ S/m; $\epsilon_r = 38.578$; $\rho = 1000$ kg/m³

Phantom section: Flat Section ; Space: 10 mm

Test Date: 08/12/2021; Ambient Temp: 22.5°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7558; Conv F(7.43, 7.43, 7.43) @ 2600 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0 ; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2600 MHz System Verification at 20.0 dBm (100 mW)

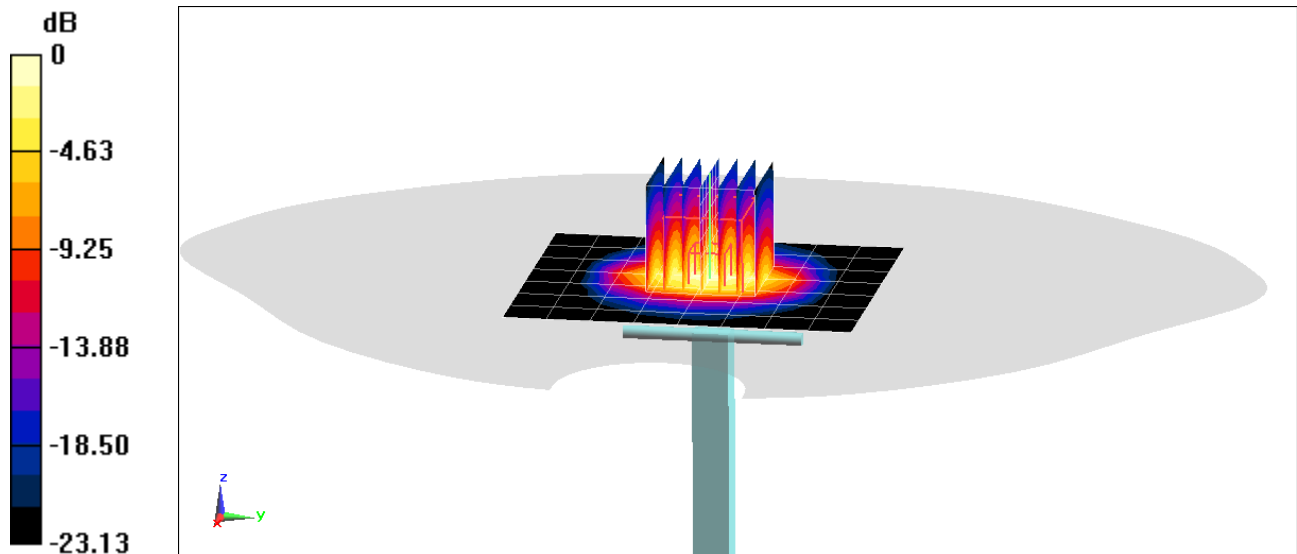
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 11.6 W/kg

SAR(1 g) = 5.57 W/kg

Deviation(1 g) = -3.47%



0 dB = 9.37 W/kg = 9.72 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Head; Medium parameters used

$f = 5250 \text{ MHz}$; $\sigma = 4.587 \text{ S/m}$; $\epsilon_r = 35.891$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 07/23/2021; Ambient Temp: 21.1°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7558; Conv F(5.33, 5.33, 5.33) @ 5250 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

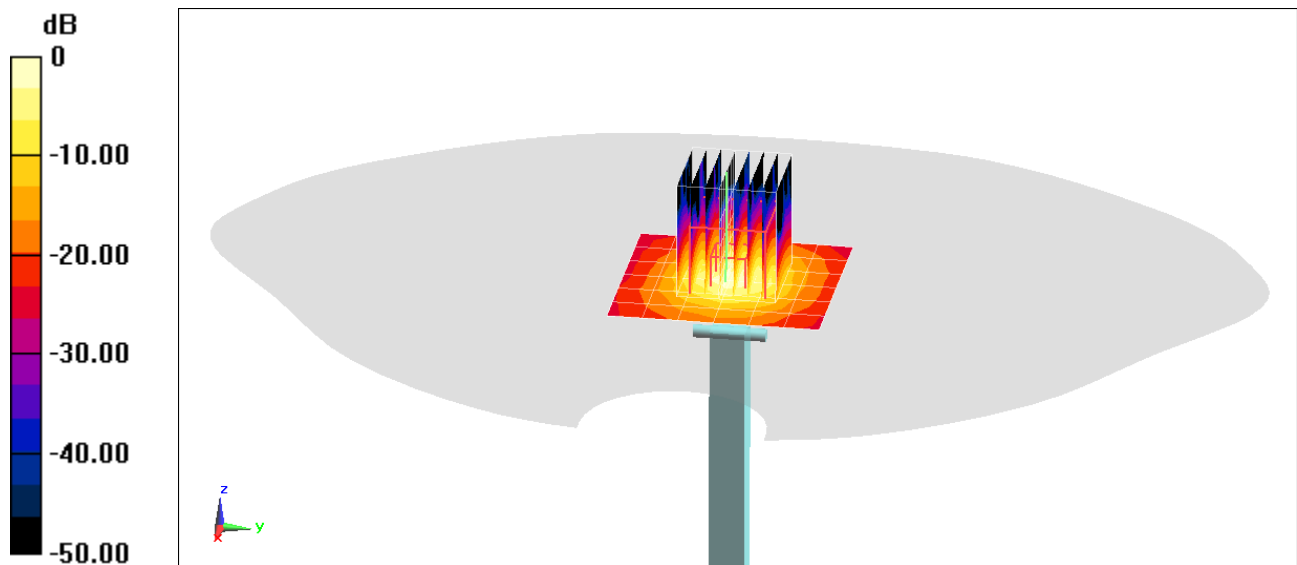
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.6 W/kg

SAR(1 g) = 3.91 W/kg

Deviation(1 g) = -4.87%



0 dB = 9.21 W/kg = 9.64 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Head; Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 4.979 \text{ S/m}$; $\epsilon_r = 35.265$; $\rho = 1000 \text{ kg/m}^3$,

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/23/2021; Ambient Temp: 21.1°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7558; Conv F(4.81, 4.81, 4.81) @ 5600 MHz, Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

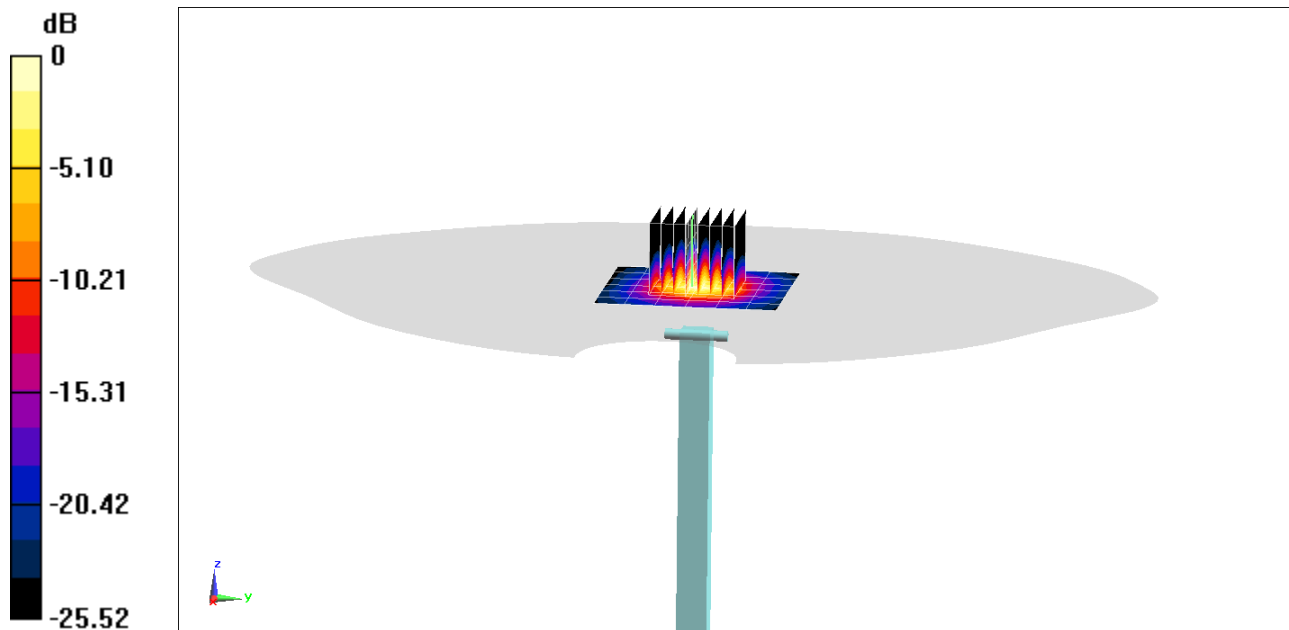
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 19.0 W/kg

SAR(1 g) = 3.99 W/kg

Deviation(1 g) = -5.56%



0 dB = 9.07 W/kg = 9.58 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Head; Medium parameters used:

$f = 5750 \text{ MHz}$; $\sigma = 5.165 \text{ S/m}$; $\epsilon_r = 35.021$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/23/2021; Ambient Temp: 21.1°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN7558; Conv F(4.88, 4.88, 4.88) @ 5750 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

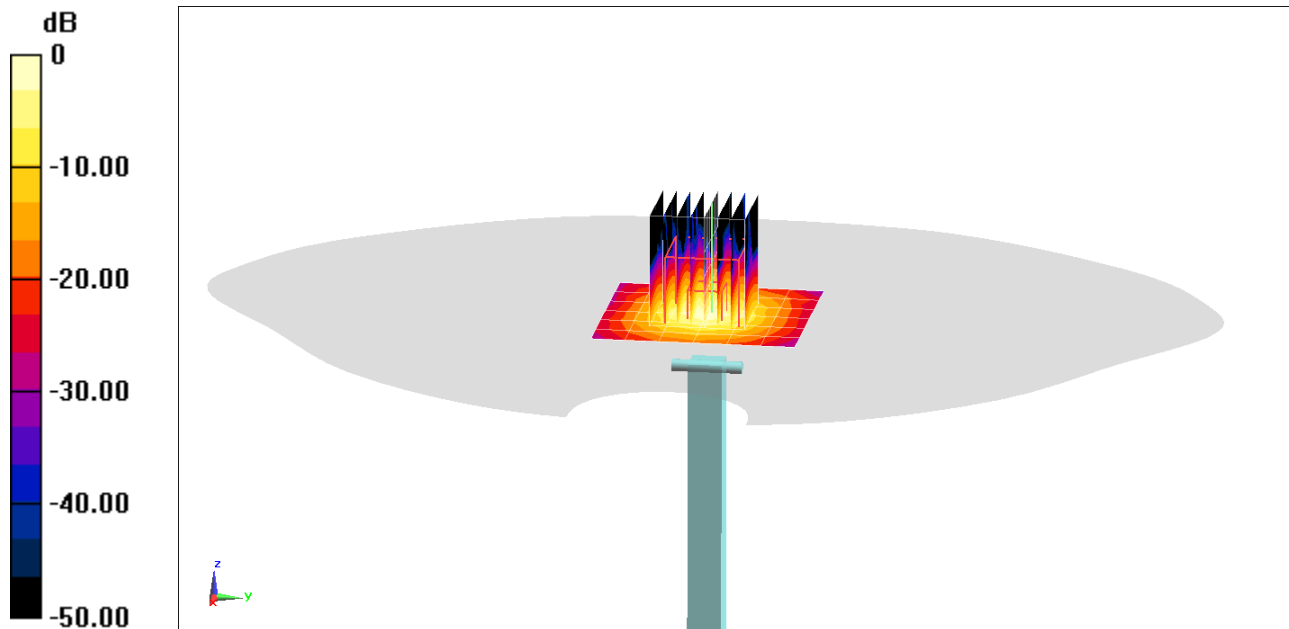
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 3.79 W/kg

Deviation(1 g) = -6.77%



0 dB = 9.41 W/kg = 9.74 dBW/kg

PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1097

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.987 \text{ S/m}$; $\epsilon_r = 53.148$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 15 mm

Test Date: 07/27/2021; Ambient Temp: 21.2°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7416; Conv F(9.89, 9.89, 9.89) @ 750 MHz; Calibrated: 5/18/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 5/11/2021

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

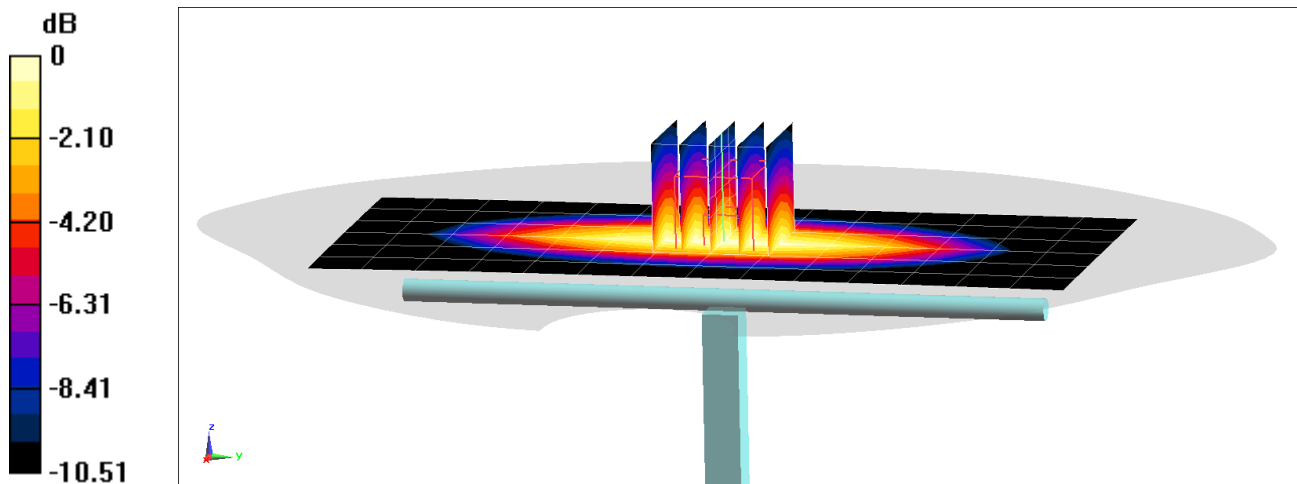
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.72 W/kg

SAR(10 g) = 1.17 W/kg

Deviation(10 g) = 4.46%



PCTEST

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1057

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: 750 Body; Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.937 \text{ S/m}$; $\epsilon_r = 53.635$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 15 mm

Test Date: 08/09/2021; Ambient Temp: 21.2°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7416; Conv F(9.89, 9.89, 9.89) @ 750 MHz; Calibrated: 5/18/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn701; Calibrated: 5/11/2021

Phantom: Twin-SAM V4.0 Main; Type: QD 000 P40 CC; Serial: 1114

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

750 MHz System Verification at 23.0 dBm (200 mW)

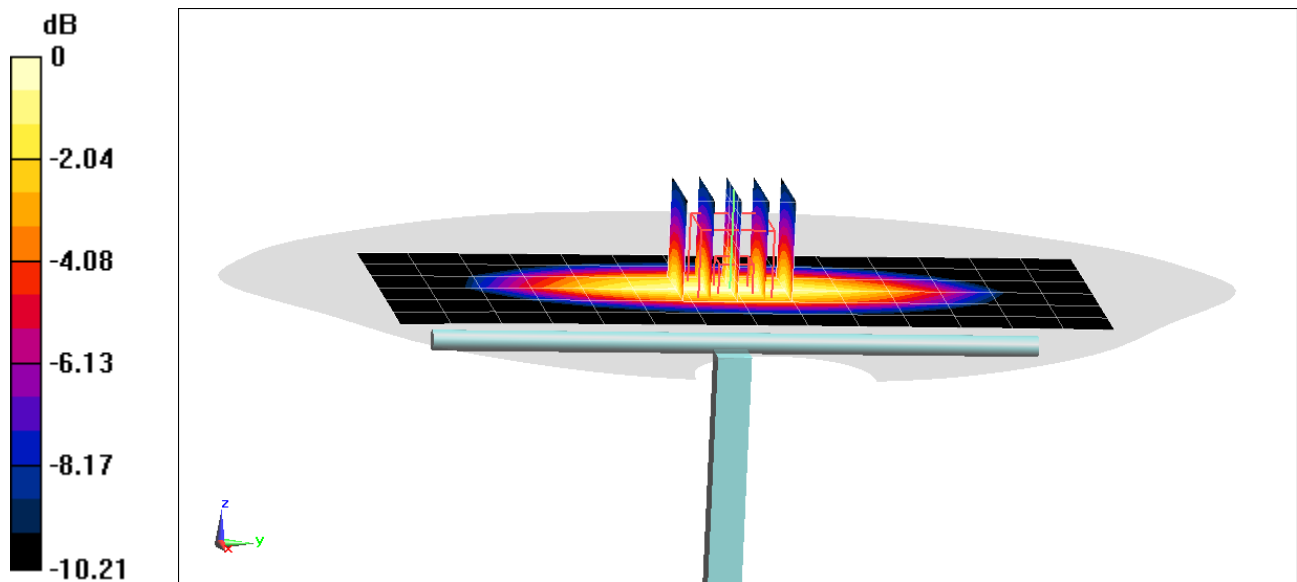
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.60 W/kg

SAR(10 g) = 1.14 W/kg

Deviation(10 g) = 0.35%



PCTEST

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1057

Communication System: UID: 0, CW; Frequency: 750.0 MHz

Medium: 750 Body; Medium parameters used:

$f = 750.0$ MHz; Cond = 0.96 S/m; perm = 53.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 08/11/2021; Ambient Temp: 22.0°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7416; Conv F:(9.89,9.89,9.89); Calibrated: 2021-05-18

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn701; Calibrated: 2021-05-11

Phantom: Twin-SAM V4.0; Serial: 1357

Measurement SW: cDASY6 Module SAR V6.14.0.959

750.0 MHz System Verification at 23.0 dBm

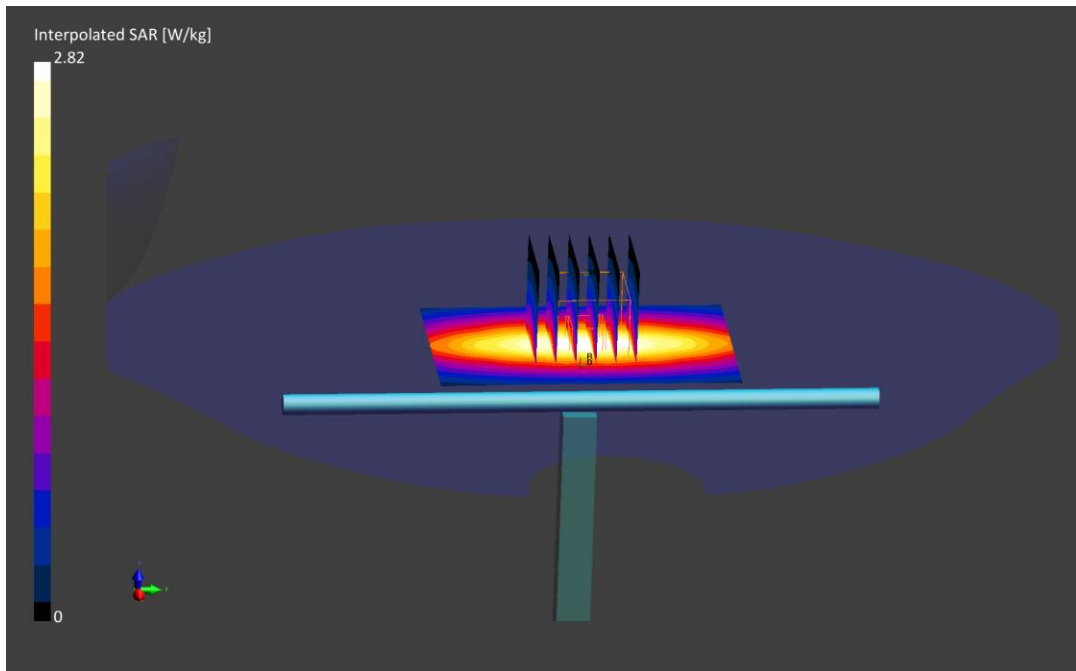
Area Scan (60.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 2.82 W/kg

SAR(10 g) = 1.22 W/kg

Deviation (10 g) = 7.39%



PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.986 \text{ S/m}$; $\epsilon_r = 54.559$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 07/27/2021; Ambient Temp: 20.7°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3949; Conv F(10.26, 10.26, 10.26) @ 835 MHz; Calibrated: 8/19/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1408; Calibrated: 8/13/2020

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 1936

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

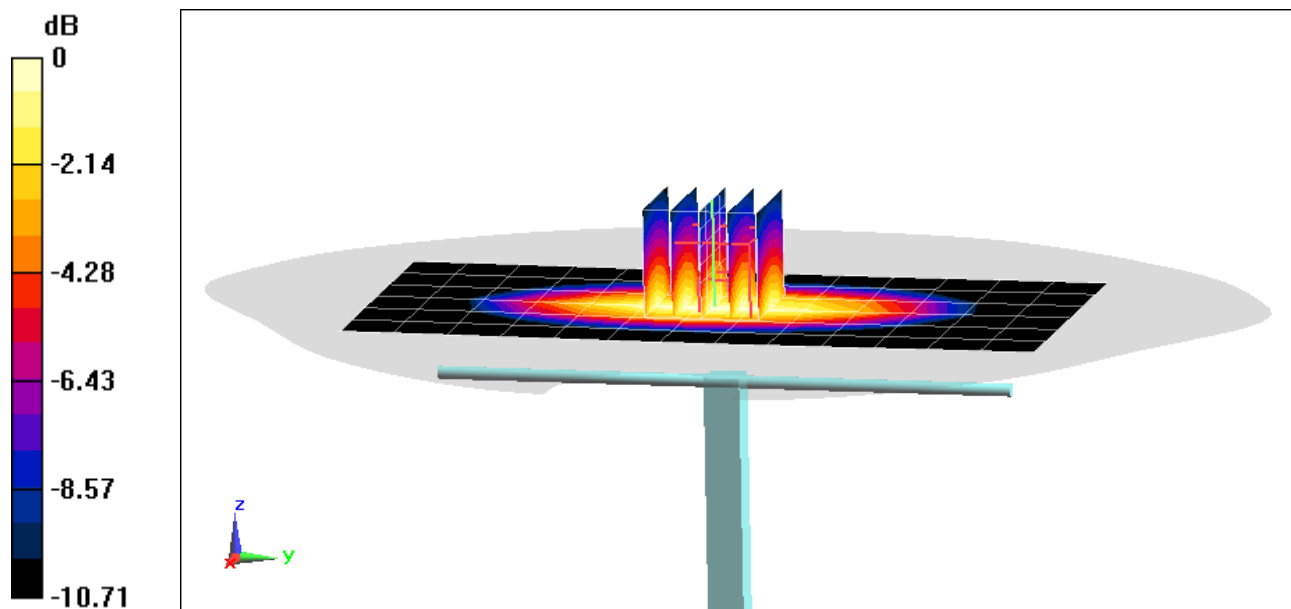
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 2.94 W/kg

SAR(10 g) = 1.25 W/kg

Deviation(10 g) = 0.16%



0 dB = 2.58 W/kg = 4.12 dBW/kg

PCTEST

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d040

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: 835 Body; Medium parameters used:

$f = 835 \text{ MHz}$; $\sigma = 0.982 \text{ S/m}$; $\epsilon_r = 53.509$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.5 cm

Test Date: 08/02/2021; Ambient Temp: 22.9°C; Tissue Temp: 20.9°C

Probe: EX3DV4 - SN7640; Conv F(10.71, 10.71, 10.71) @ 835 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

835 MHz System Verification at 23.0 dBm (200 mW)

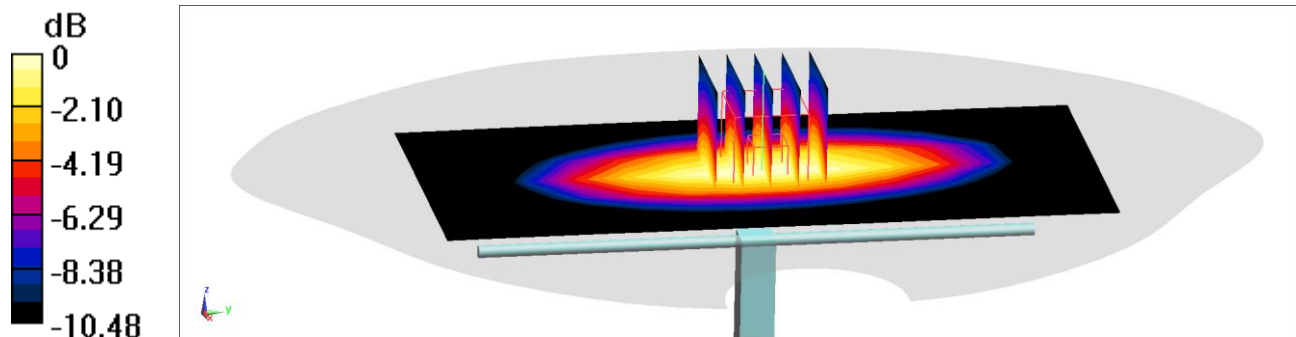
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 3.07 W/kg

SAR(10 g) = 1.34 W/kg

Deviation(10 g) = 7.37%



0 dB = 2.70 W/kg = 4.31 dBW/kg

PCTEST

DUT: Dipole 835.0 MHz; Type: D835V2; Serial: 4d040

Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Body; Medium parameters used:
f = 835.0 MHz; cond = 1.00 S/m; perm = 52.8; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 08/19/2021; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7416; ConvF:(9.66,9.66,9.66); Calibrated: 2021-05-18
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn701; Calibrated: 2021-05-11
Phantom: Twin-SAM V4.0; Serial: 1357
Measurement SW: cDASY6 Module SAR V6.14.0.959

835.0 MHz System Verification at 23.0 dBm

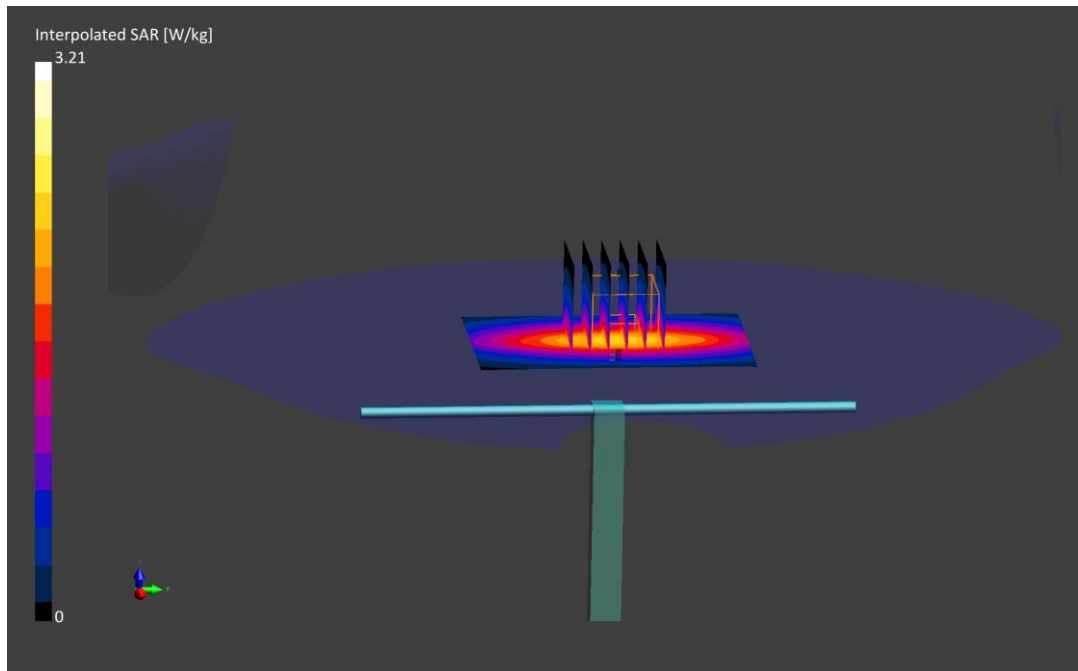
Area Scan (60.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 3.21 W/kg

SAR(10 g) = 1.34 W/kg

Deviation (10 g) = 7.37%;



PCTEST

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1083

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: 1750 Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.49 \text{ S/m}$; $\epsilon_r = 54.302$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 06/20/2021; Ambient Temp: 21.9°C; Tissue Temp: 21.9°C

Probe: EX3DV4 - SN7639; Conv F(9.29, 9.29, 9.29) @ 1750 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1646; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2129

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1750 MHz System Verification at 20.0 dBm (100 mW)

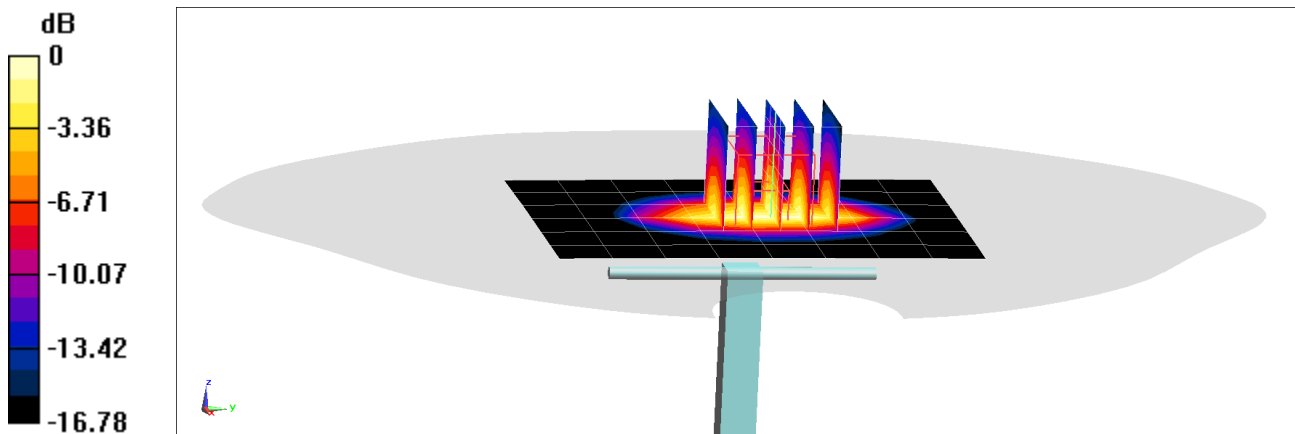
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 6.19 W/kg

SAR(10 g) = 1.88 W/kg

Deviation(10 g) = -4.57%



0 dB = 5.28 W/kg = 7.23 dBW/kg

PCTEST

DUT: Dipole 1750.0 MHz; Type: D1750V2; Serial: 1083

Communication System: UID: 0, CW; Frequency: 1750.0 MHz
Medium: 1750 Body; Medium parameters used:
f = 1750.0 MHz; Cond = 1.46 S/m; perm = 53.5; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 06/28/2021; Ambient Temp: 21.3°C; Tissue Temp: 19.5°C

Probe: EX3DV4 - SN7639; Conv F:(9.29,9.29,9.29); Calibrated: 2021-03-03

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1646; Calibrated: 2021-01-11

Phantom: Twin-SAM V8.0; Serial: 2029

Measurement SW: cDASY6 Module SAR V6.14.0.959

1750.0 MHz System Verification at 20.0 dBm

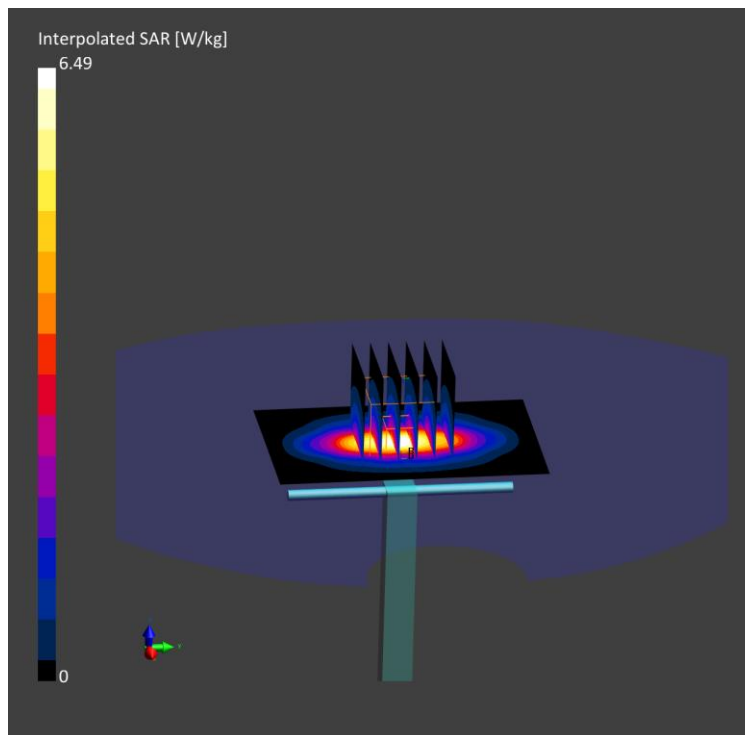
Area Scan (60.0 x 90.0): Measurement grid: dx=15.0mm, dy=15.0mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=6.0mm, dy=6.0mm, dz=1.5mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 6.49 W/kg

SAR(10 g) = 1.90 W/kg

Deviation (10 g) = -3.55%



PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d030

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.579 \text{ S/m}$; $\epsilon_r = 51.955$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 08/05/2021; Ambient Temp: 22.7°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7639; Conv F(8.91, 8.91, 8.91) @ 1900 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1646; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2129

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

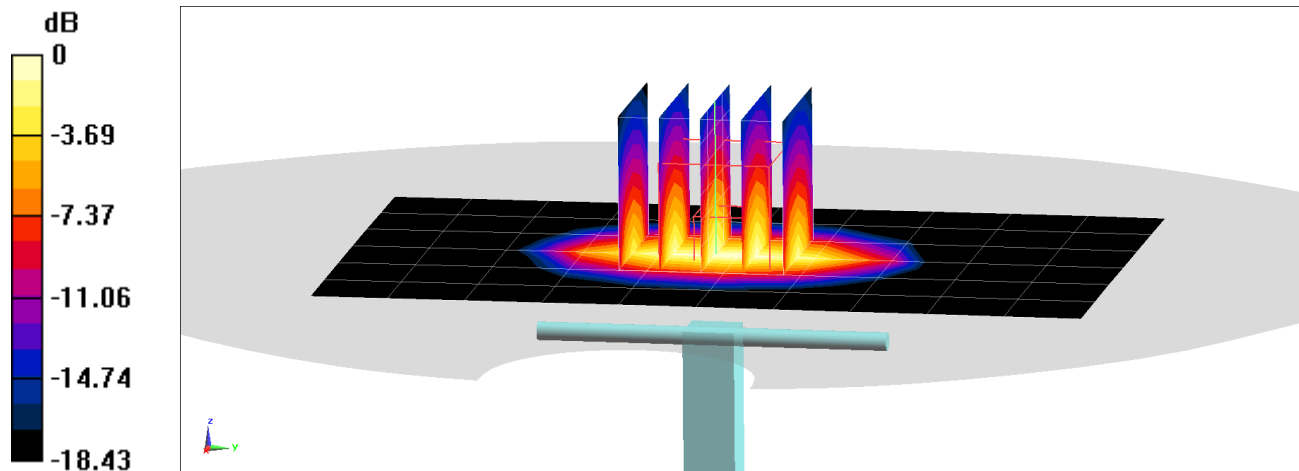
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Peak SAR (extrapolated) = 7.03 W/kg

SAR(10 g) = 1.99 W/kg

Deviation(10 g) = -5.69%



0 dB = 5.95 W/kg = 7.75 dBW/kg

PCTEST

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d030

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: 1900 Body; Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.553 \text{ S/m}$; $\epsilon_r = 51.893$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 08/09/2021; Ambient Temp: 23.1°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7640; Conv F(9.06, 9.06, 9.06) @ 1900 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

1900 MHz System Verification at 20.0 dBm (100 mW)

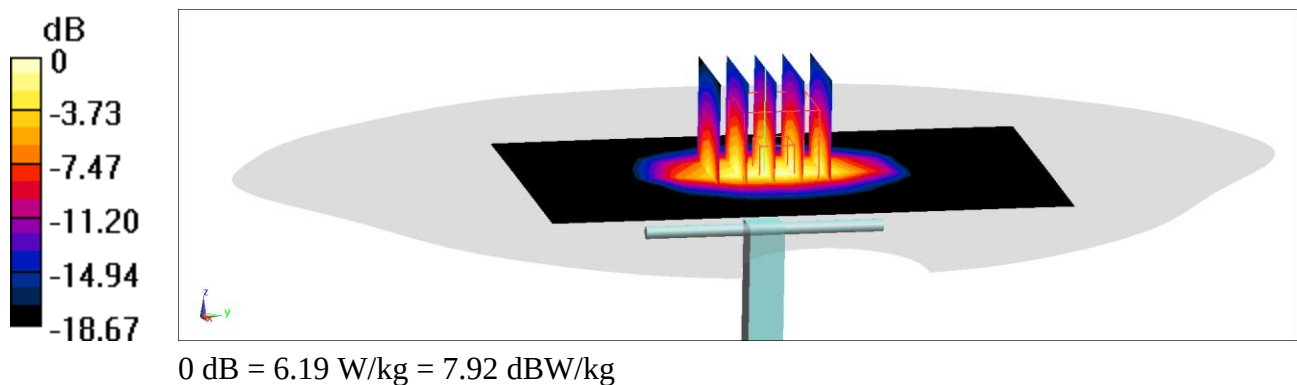
Area Scan (7x11x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Peak SAR (extrapolated) = 7.46 W/kg

SAR(10 g) = 2.04 W/kg

Deviation(10 g) = -3.32%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.025 \text{ S/m}$; $\epsilon_r = 52.517$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 07/18/2021; Ambient Temp: 22.7°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7558; Conv F(7.64, 7.64, 7.64) @ 2450 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1364; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 1596

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

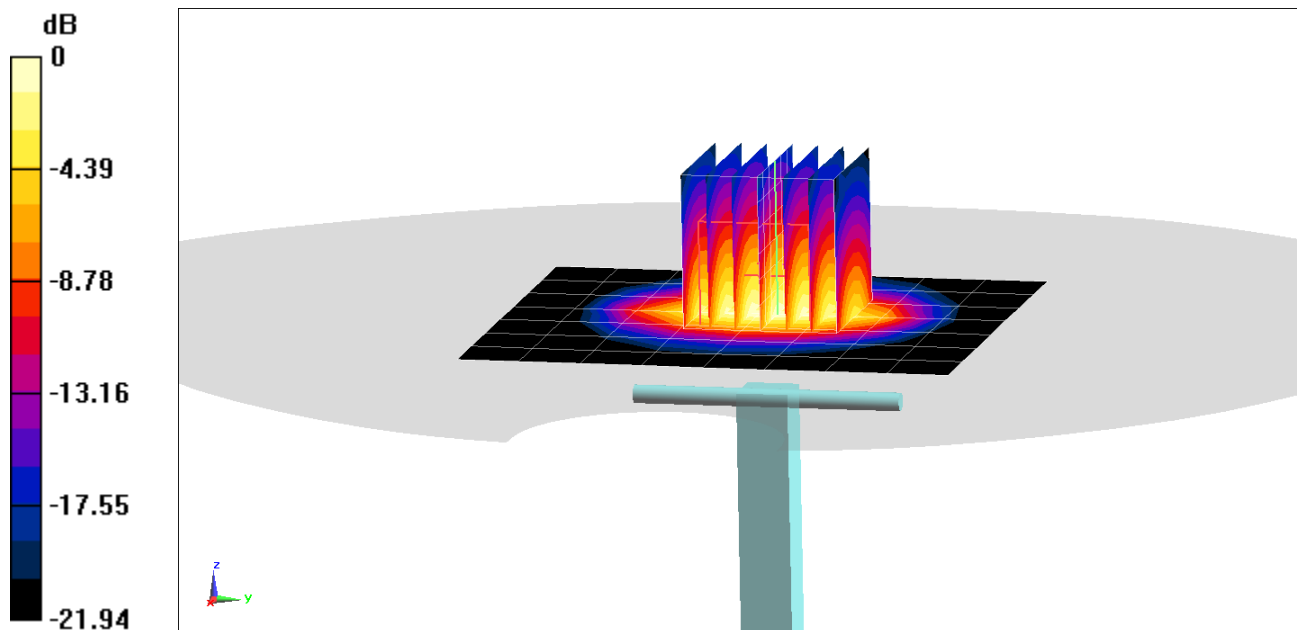
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 10.3 W/kg

SAR(10 g) = 2.36 W/kg

Deviation(10 g) = -2.07%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 750

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; Cond = 2.02 S/m; perm = 52.9; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 07/19/2021; Ambient Temp: 21.5°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7532; Conv F:(7.64,7.64,7.64); Calibrated: 2021-04-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn501; Calibrated: 2021-04-13
Phantom: Twin-SAM V4.0; Serial: 1275
Measurement SW: cDASY6 Module SAR V6.14.0.959

2450.0 MHz System Verification at 20.0 dBm

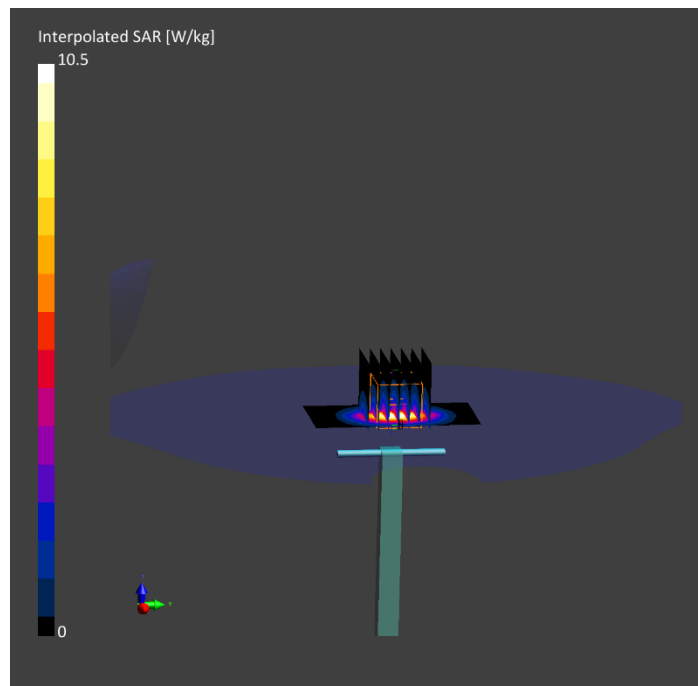
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.5 W/kg

SAR(10 g) = 2.35 W/kg

Deviation (10 g) = -2.49%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2; Serial: 750

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:
f = 2450.0 MHz; Cond = 2.01 S/m; perm = 52.0; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 07/21/2021; Ambient Temp: 22.1°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7532; Conv F:(7.64,7.64,7.64); Calibrated: 2021-04-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn501; Calibrated: 2021-04-13
Phantom: Twin-SAM V4.0; Serial: 1275
Measurement SW: cDASY6 Module SAR V6.14.0.959

2450.0 MHz System Verification at 20.0 dBm

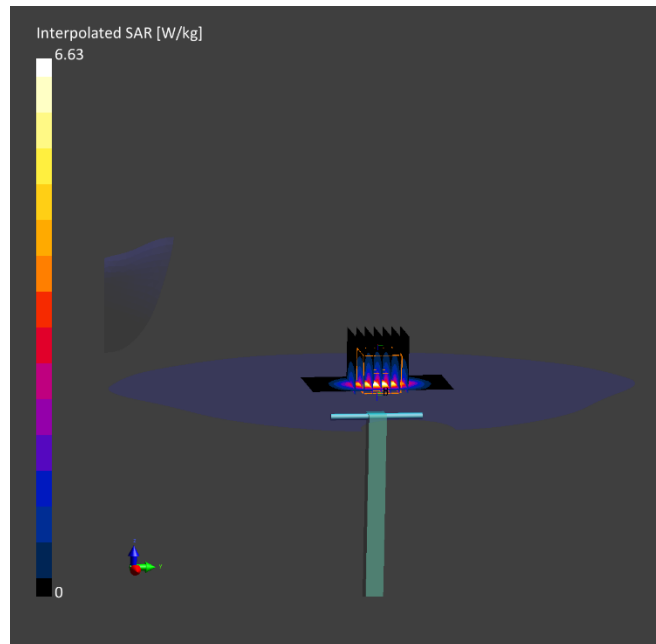
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 10.5 W/kg

SAR(10 g) = 2.35 W/kg

Deviation (10 g) = -2.49%



PCTEST

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 750

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: 2450 Body; Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 2.03 \text{ S/m}$; $\epsilon_r = 51.033$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/27/2021; Ambient Temp: 22.7°C; Tissue Temp: 22.5°C

Probe: EX3DV4 - SN7640; Conv F(8.92, 8.92, 8.92) @ 2450 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1645; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2034

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

2450 MHz System Verification at 20.0 dBm (100 mW)

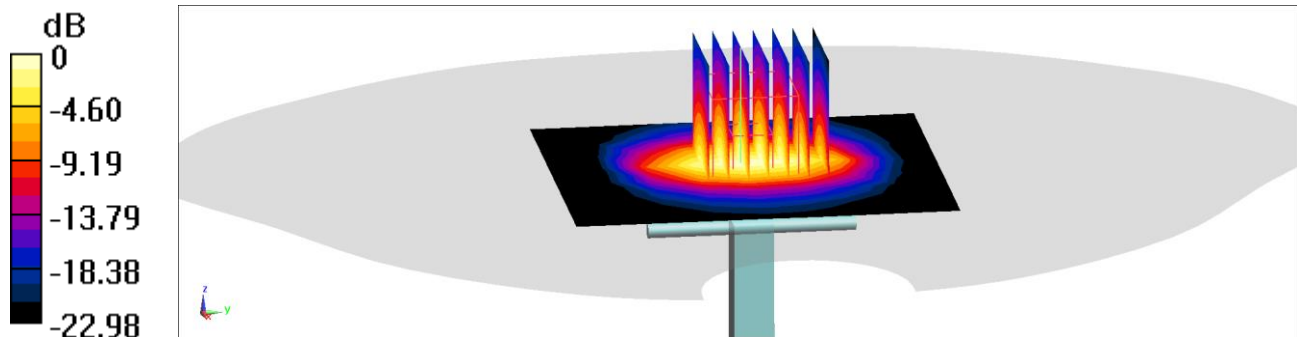
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 10.7 W/kg

SAR(10 g) = 2.35 W/kg

Deviation(10 g) = -2.49%



0 dB = 8.53 W/kg = 9.31 dBW/kg

PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1042

Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Body; Medium parameters used:
 $f = 2600.0$ MHz; Cond = 2.16 S/m; perm = 52.6; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 07/19/2021; Ambient Temp: 21.5°C; Tissue Temp: 20.8°C

Probe: EX3DV4 - SN7532; Conv F:(7.28,7.28,7.28); Calibrated: 2021-04-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn501; Calibrated: 2021-04-13
Phantom: Twin-SAM V4.0; Serial: 1275
Measurement SW: cDASY6 Module SAR V6.14.0.959

2600 MHz System Verification at 20.0 dBm

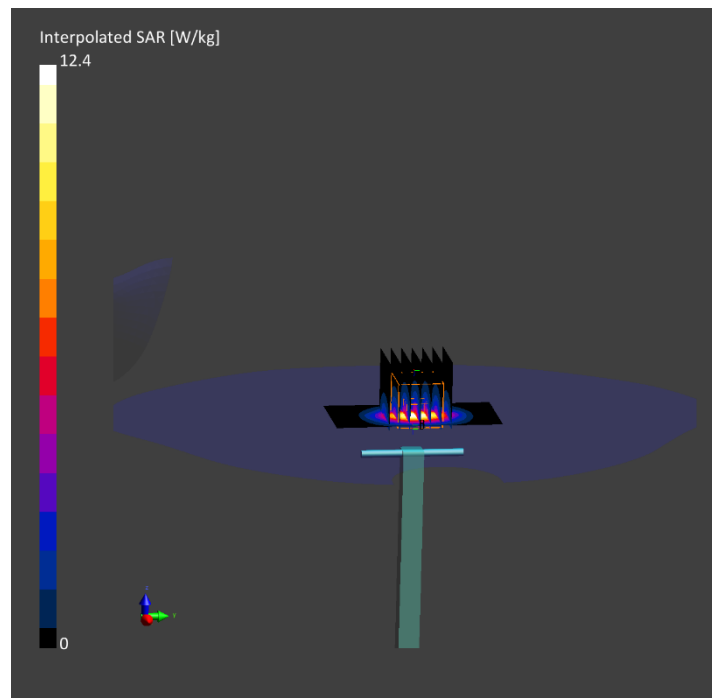
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 12.4W/kg

SAR(10 g) = 2.62 W/kg

Deviation (10 g) = 5.22%



PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2; Serial: 1042

Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Body; Medium parameters used:
 $f = 2600.0$ MHz; Cond = 2.15 S/m; perm = 51.7; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 07/21/2021; Ambient Temp: 22.1°C; Tissue Temp: 21.2°C

Probe: EX3DV4 - SN7532; Conv F:(7.28,7.28,7.28); Calibrated: 2021-04-19
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn501; Calibrated: 2021-04-13
Phantom: Twin-SAM V4.0; Serial: 1275
Measurement SW: cDASY6 Module SAR V6.14.0.959

2600 MHz System Verification at 20.0 dBm

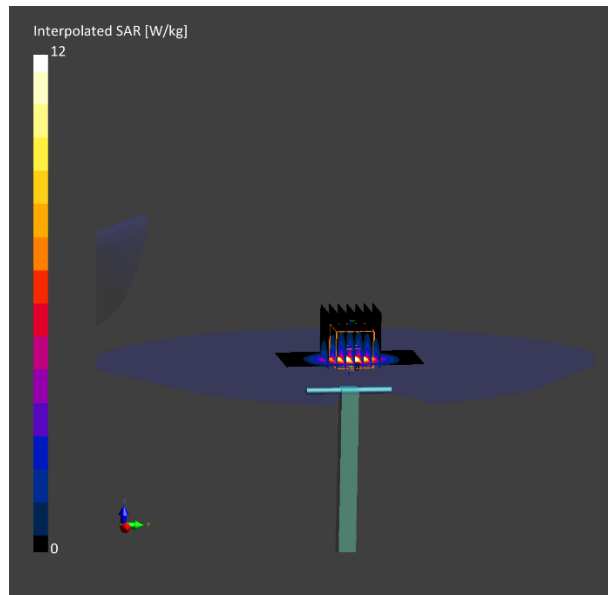
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

Peak SAR (extrapolated) = 12.0 W/kg

SAR(10 g) = 2.54 W/kg

Deviation (10 g) = 2.01%



PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5250 \text{ MHz}$; $\sigma = 5.41 \text{ S/m}$; $\epsilon_r = 48.246$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 07/23/2021; Ambient Temp: 21.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7638; Conv F(4.76, 4.76, 4.76) @ 5250 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1644; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2027

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5250 MHz System Verification at 17.0 dBm (50 mW)

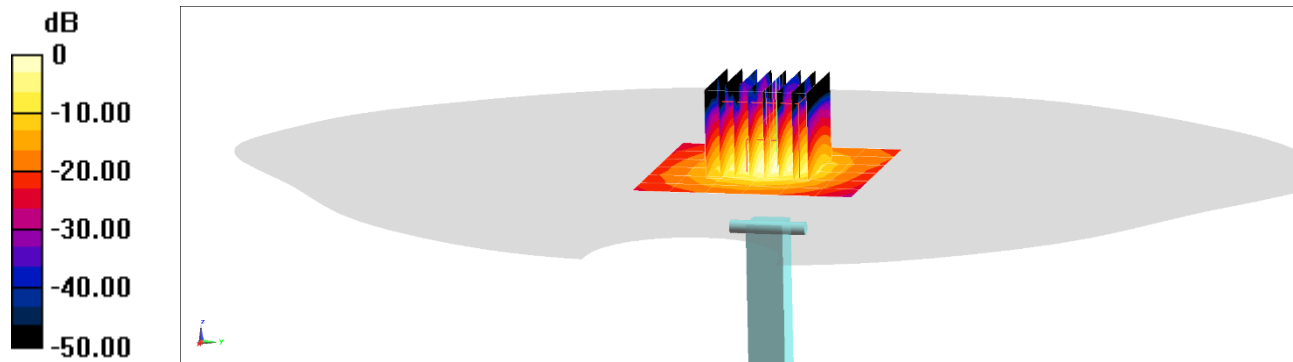
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 15.8 W/kg

SAR(10 g) = 1.07 W/kg

Deviation(10 g) = 5.42%



0 dB = 9.16 W/kg = 9.62 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 5.917 \text{ S/m}$; $\epsilon_r = 47.582$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 1.0 cm

Test Date: 07/23/2021; Ambient Temp: 21.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7638; Conv F(4.24, 4.24, 4.24) @ 5600 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1644; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2027

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5600 MHz System Verification at 17.0 dBm (50 mW)

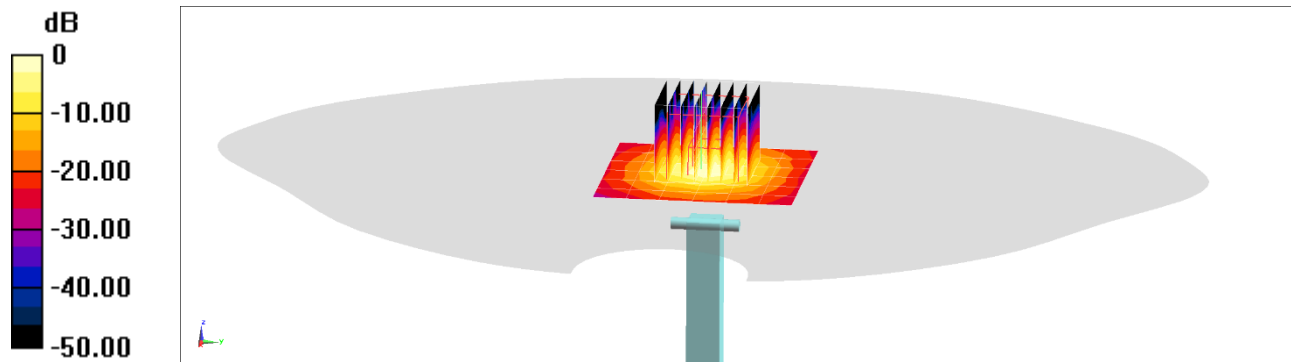
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 19.0 W/kg

SAR(10 g) = 1.13 W/kg

Deviation(10 g) = 6.60%



0 dB = 10.0 W/kg = 10.00 dBW/kg

PCTEST

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: 1123

Communication System: UID 0, CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: 5200-5800 Body; Medium parameters used:

$f = 5750 \text{ MHz}$; $\sigma = 6.14 \text{ S/m}$; $\epsilon_r = 47.325$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section ; Space: 10 mm

Test Date: 07/23/2021; Ambient Temp: 21.5°C; Tissue Temp: 20.4°C

Probe: EX3DV4 - SN7638; Conv F(4.32, 4.32, 4.32) @ 5750 MHz; Calibrated: 3/3/2021

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1644; Calibrated: 1/11/2021

Phantom: Twin-SAM V8.0; Type: QD 000 P41 Ax; Serial: 2027

Measurement SW: DASY52, Version 52.10 (4);SEMCAD X Version 14.6.14 (7483)

5750 MHz System Verification at 17.0 dBm (50 mW)

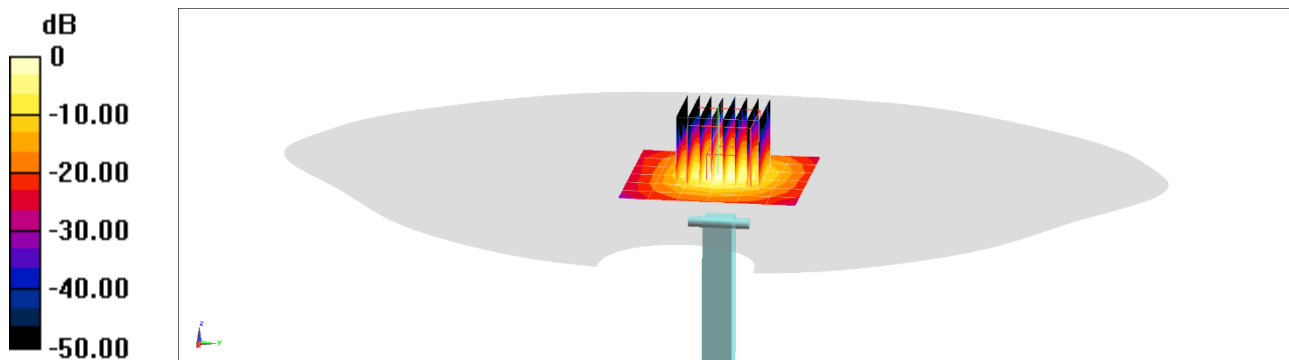
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm; Graded Ratio: 1.4

Peak SAR (extrapolated) = 18.7 W/kg

SAR(10 g) = 1.08 W/kg

Deviation(10 g) = 7.46%



0 dB = 10.1 W/kg = 10.04 dBW/kg

APPENDIX C: SAR TISSUE SPECIFICATIONS

FCC ID: BCG-A2475	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/18/2021 – 08/19/2021	DUT Type: Watch		APPENDIX C: Page 1 of 4

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ϵ' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho' \cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures

Description: Aqueous solution with surfactants and inhibitors

Declarable, or hazardous components:

CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-0000	Ethanedial STOT RE 2, H373; Acute Tox. 4, H302	>1.0-4.9%
CAS: 68608-26-4 EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000	Sodium petroleum sulfonate Eye Irrit. 2, H319	< 2.9%
CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35-0000	Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.9%
CAS: 68920-66-1 NLP: 500-236-9 Reg.nr.: 01-2119489407-26-0000	Alkoxyated alcohol, > C₁₆ Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.0%

Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential.

The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure C-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

FCC ID: BCG-A2475	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/18/2021 – 08/19/2021	DUT Type: Watch		APPENDIX C: Page 2 of 4

Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MBBL600-6000V6)
Product No.	SL AAM U16 BC (Batch: 200803-1)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the KDB 865664 compliance standard.

Test Condition

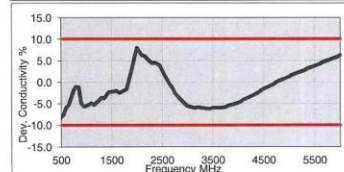
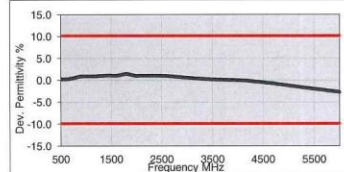
Ambient Condition 22°C ; 30% humidity
 TSL Temperature 22°C
 Test Date 6-Aug-20
 Operator CL

Additional Information

TSL Density
 TSL Heat-capacity

Results

f [MHz]	Measured			Target		Diff. to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
600	56.3	26.8	0.89	56.1	0.95	0.3	-6.3
750	55.8	22.6	0.94	55.5	0.96	0.5	-2.1
800	55.7	21.6	0.96	55.3	0.97	0.7	-1.0
825	55.7	21.1	0.97	55.2	0.98	0.8	-1.0
835	55.7	20.9	0.98	55.1	0.99	1.0	-0.5
850	55.6	20.7	0.98	55.2	0.99	0.8	-1.0
900	55.5	19.9	1.00	55.0	1.05	0.9	-4.8
1400	54.7	15.9	1.24	54.1	1.28	1.1	-3.1
1450	54.6	15.8	1.27	54.0	1.30	1.1	-2.3
1600	54.4	15.3	1.36	53.8	1.39	1.1	-2.2
1625	54.4	15.3	1.38	53.8	1.41	1.2	-2.1
1640	54.4	15.2	1.39	53.7	1.42	1.3	-2.1
1650	54.3	15.2	1.39	53.7	1.43	1.1	-2.8
1700	54.2	15.1	1.43	53.6	1.46	1.2	-2.1
1750	54.2	15.0	1.46	53.4	1.49	1.4	-2.0
1800	54.1	14.9	1.50	53.3	1.52	1.5	-1.3
1810	54.1	14.9	1.51	53.3	1.52	1.5	-0.7
1825	54.1	14.9	1.52	53.3	1.52	1.5	0.0
1850	54.0	14.9	1.53	53.3	1.52	1.3	0.7
1900	54.0	14.8	1.57	53.3	1.52	1.3	3.3
1950	53.9	14.8	1.60	53.3	1.52	1.1	5.3
2000	53.8	14.8	1.64	53.3	1.52	0.9	7.9
2050	53.8	14.7	1.68	53.2	1.57	1.1	7.0
2100	53.7	14.7	1.72	53.2	1.62	1.0	6.2
2150	53.7	14.7	1.76	53.1	1.66	1.1	6.0
2200	53.6	14.7	1.80	53.0	1.71	1.1	5.3
2250	53.5	14.8	1.85	53.0	1.76	1.0	5.1
2300	53.5	14.8	1.89	52.9	1.81	1.1	4.4
2350	53.4	14.8	1.94	52.8	1.85	1.1	4.9
2400	53.3	14.8	1.98	52.8	1.90	1.0	4.2
2450	53.3	14.9	2.03	52.7	1.95	1.1	4.1
2500	53.2	14.9	2.07	52.6	2.02	1.1	2.5
2550	53.1	15.0	2.12	52.6	2.09	1.0	1.4
2600	53.0	15.0	2.17	52.5	2.16	0.9	0.5



3500	51.4	16.0	3.11	51.3	3.31	0.2	-6.0
3700	51.1	16.2	3.34	51.1	3.55	0.1	-5.9
5200	48.3	18.7	5.42	49.0	5.30	-1.5	2.3
5250	48.2	18.8	5.50	49.0	5.36	-1.6	2.5
5300	48.1	18.9	5.57	48.9	5.42	-1.7	2.8
5500	47.7	19.2	5.86	48.6	5.65	-2.0	3.8
5600	47.5	19.3	6.01	48.5	5.77	-2.1	4.2
5700	47.3	19.4	6.16	48.3	5.88	-2.3	4.8
5800	47.0	19.6	6.32	48.2	6.00	-2.4	5.3
6000	46.6	19.8	6.62	47.9	6.23	-2.7	6.3

Figure C-2
600 – 5800 MHz Body Tissue Equivalent Matter

FCC ID: BCG-A2475		SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/18/2021 – 08/19/2021	DUT Type: Watch		APPENDIX C: Page 3 of 4

Measurement Certificate / Material Test

Item Name	Head Tissue Simulating Liquid (HBBL600-10000V6)
Product No.	SL AAH U16 BC (Batch: 200805-4)
Manufacturer	SPEAG

Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

Test Condition

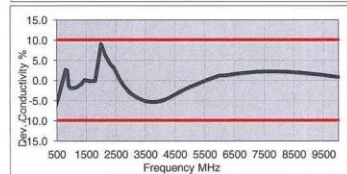
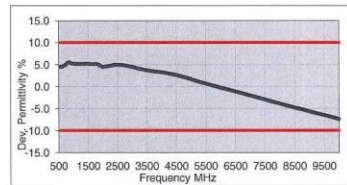
Ambient Condition 22°C ; 30% humidity
 TSL Temperature 22°C
 Test Date 6-Aug-20
 Operator CL

Additional Information

TSL Density
 TSL Heat-capacity

Results

f [MHz]	Measured			Target		Diff.to Target [%]	
	e'	e''	sigma	eps	sigma	Δ-eps	Δ-sigma
600	44.7	25.7	0.86	42.7	0.88	4.6	-2.5
750	44.1	21.7	0.90	41.9	0.89	5.1	0.7
800	44.0	20.7	0.92	41.7	0.90	5.6	2.5
825	43.9	20.3	0.93	41.6	0.91	5.6	2.6
835	43.9	20.1	0.94	41.5	0.91	5.7	3.1
850	43.8	19.9	0.94	41.5	0.92	5.5	2.6
900	43.7	19.1	0.96	41.5	0.97	5.3	-1.0
1400	42.7	15.1	1.18	40.6	1.18	5.2	0.0
1450	42.6	14.9	1.20	40.5	1.20	5.2	0.0
1600	42.4	14.4	1.28	40.3	1.28	5.2	-0.3
1625	42.4	14.4	1.30	40.3	1.30	5.3	0.1
1640	42.4	14.3	1.31	40.3	1.31	5.3	0.3
1650	42.3	14.3	1.31	40.2	1.31	5.1	-0.2
1700	42.2	14.2	1.34	40.2	1.34	5.1	-0.2
1750	42.2	14.1	1.37	40.1	1.37	5.3	-0.1
1800	42.1	14.0	1.40	40.0	1.40	5.3	0.0
1810	42.1	14.0	1.41	40.0	1.40	5.3	0.7
1825	42.1	13.9	1.42	40.0	1.40	5.3	1.4
1850	42.0	13.9	1.43	40.0	1.40	5.0	2.1
1900	41.9	13.8	1.46	40.0	1.40	4.7	4.3
1950	41.9	13.8	1.49	40.0	1.40	4.7	6.4
2000	41.8	13.7	1.53	40.0	1.40	4.5	9.3
2050	41.7	13.7	1.56	39.9	1.44	4.5	8.0
2100	41.7	13.7	1.60	39.8	1.49	4.7	7.5
2150	41.6	13.6	1.63	39.7	1.53	4.7	6.3
2200	41.5	13.6	1.67	39.6	1.58	4.7	5.8
2250	41.5	13.6	1.70	39.6	1.62	4.9	4.8
2300	41.4	13.6	1.74	39.5	1.67	4.9	4.4
2350	41.3	13.6	1.78	39.4	1.71	4.9	4.0
2400	41.2	13.6	1.82	39.3	1.76	4.9	3.7
2450	41.2	13.6	1.85	39.2	1.80	5.1	2.8
2500	41.1	13.6	1.89	39.1	1.85	5.0	1.9
2550	41.0	13.7	1.94	39.1	1.91	4.9	1.6
2600	40.9	13.7	1.98	39.0	1.96	4.8	0.8



3500	39.4	14.2	2.77	37.9	2.91	3.7	-5.1
3700	39.0	14.3	2.95	37.7	3.12	3.5	-5.3
5200	36.4	15.9	4.61	36.0	4.66	1.3	-1.0
5250	36.4	16.0	4.67	35.9	4.71	1.2	-0.9
5300	36.3	16.0	4.72	35.9	4.76	1.1	-0.7
5500	35.9	16.2	4.96	35.6	4.96	0.7	-0.1
5600	35.7	16.3	5.07	35.5	5.07	0.5	0.2
5700	35.5	16.4	5.19	35.4	5.17	0.3	0.4
5800	35.4	16.5	5.31	35.3	5.27	0.1	0.7
6000	35.0	16.6	5.54	35.1	5.48	-0.2	1.2
6500	34.1	17.1	6.17	34.5	6.07	-1.1	1.6
7000	33.2	17.4	6.78	33.9	6.65	-2.0	2.0
7500	32.3	17.7	7.40	33.3	7.24	-2.9	2.2
8000	31.5	18.0	8.01	32.7	7.84	-3.8	2.2
8500	30.6	18.2	8.63	32.1	8.45	-4.7	2.1
9000	29.8	18.4	9.24	31.5	9.08	-5.6	1.8
9500	29.0	18.6	9.84	31.0	9.71	-6.5	1.3
10000	28.1	18.8	10.44	30.4	10.36	-7.4	0.8

Figure C-3
 600 – 5800 MHz Head Tissue Equivalent Matter

FCC ID: BCG-A2475		SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/18/2021 – 08/19/2021	DUT Type: Watch		APPENDIX C: Page 4 of 4

APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCG-A2475	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/18/2021 – 08/19/2021	DUT Type: Watch		Appendix D Page 1 of 2

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table D-1
SAR System Validation Summary – 1g

c	Freq. (MHz)	Date	Probe SN	Probe Cal Point	Cond. (σ)	Perm. (ε)	CW VALIDATION			MOD. VALIDATION			SW Version
							SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR	
AM8	750	12/07/2020	7558	750	Head	0.860	41.170	PASS	PASS	PASS	N/A	N/A	DASY5
AM3	750	04/19/2021	7421	750	Head	0.867	40.284	PASS	PASS	PASS	N/A	N/A	DASY5
AM4B	750	05/12/2021	7640	750	Head	0.894	41.350	PASS	PASS	PASS	N/A	N/A	DASY5
AM5	835	10/15/2020	3949	835	Head	0.899	42.608	PASS	PASS	PASS	GMSK	PASS	DASY5
AM4A	835	03/30/2021	7427	835	Head	0.920	41.470	PASS	PASS	PASS	GMSK	PASS	DASY5
AM10	835	05/11/2021	7639	835	Head	0.924	41.182	PASS	PASS	PASS	GMSK	PASS	DASY5
AM5	1750	10/15/2020	3949	1750	Head	1.328	40.910	PASS	PASS	PASS	N/A	N/A	DASY5
AM4B	1750	05/12/2021	7640	1750	Head	1.358	39.190	PASS	PASS	PASS	N/A	N/A	DASY5
AM4A	1900	03/30/2021	7427	1900	Head	1.434	39.556	PASS	PASS	PASS	GMSK	PASS	DASY5
AM10	1900	05/24/2021	7639	1900	Head	1.430	38.100	PASS	PASS	PASS	GMSK	PASS	DASY6
AM5	2450	10/16/2020	3949	2450	Head	1.797	39.950	PASS	PASS	PASS	OFDM/TDD	PASS	DASY5
AM8	2450	12/03/2020	7558	2450	Head	1.819	38.600	PASS	PASS	PASS	OFDM/TDD	PASS	DASY5
AM1	2450	04/27/2021	3837	2450	Head	1.844	40.206	PASS	PASS	PASS	OFDM/TDD	PASS	DASY6
AM4B	2450	07/22/2021	7640	2450	Head	1.839	37.470	PASS	PASS	PASS	OFDM/TDD	PASS	DASY5
AM5	2600	10/16/2020	3949	2600	Head	1.922	39.730	PASS	PASS	PASS	TDD	PASS	DASY5
AM8	2600	12/03/2020	7558	2600	Head	1.941	38.380	PASS	PASS	PASS	TDD	PASS	DASY5
AM1	2600	06/16/2021	3837	2600	Head	2.008	38.286	PASS	PASS	PASS	TDD	PASS	DASY6
AM8	5250	12/07/2020	7558	5250	Head	4.476	34.870	PASS	PASS	PASS	OFDM	N/A	DASY5
AM8	5600	12/07/2020	7558	5600	Head	4.855	34.300	PASS	PASS	PASS	OFDM	N/A	DASY5
AM8	5750	12/07/2020	7558	5750	Head	5.036	34.018	PASS	PASS	PASS	OFDM	N/A	DASY5

Table D-2
SAR System Validation Summary – 10g

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point	Cond. (σ)	Perm. (ε)	CW VALIDATION			MOD. VALIDATION			SW Version
							SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR	
AM6	750	06/02/2021	7416	750	Body	0.930	55.300	PASS	PASS	PASS	N/A	N/A	DASY6
AM6	750	06/22/2021	7416	750	Body	0.990	54.000	PASS	PASS	PASS	N/A	N/A	DASY5
AM5	835	10/14/2020	3949	835	Body	1.003	52.970	PASS	PASS	PASS	GMSK	PASS	DASY5
AM4B	835	05/10/2021	7640	835	Body	0.950	53.933	PASS	PASS	PASS	GMSK	PASS	DASY5
AM6	835	06/02/2021	7416	835	Body	0.990	54.000	PASS	PASS	PASS	GMSK	PASS	DASY6
AM10	1750	04/28/2021	7639	1750	Body	1.476	51.970	PASS	PASS	PASS	N/A	N/A	DASY5
AM10	1750	05/17/2021	7639	1750	Body	1.480	52.200	PASS	PASS	PASS	N/A	N/A	DASY6
AM4B	1900	05/10/2021	7640	1900	Body	1.584	52.310	PASS	PASS	PASS	GMSK	PASS	DASY5
AM10	1900	05/18/2021	7639	1900	Body	1.580	52.100	PASS	PASS	PASS	GMSK	PASS	DASY5
AM8	2450	12/03/2020	7558	2450	Body	2.029	51.960	PASS	PASS	PASS	OFDM/TDD	PASS	DASY5
AM4B	2450	05/10/2021	7640	2450	Body	2.026	51.610	PASS	PASS	PASS	OFDM/TDD	PASS	DASY5
AM2	2450	05/17/2021	7532	2450	Body	2.031	51.888	PASS	PASS	PASS	OFDM/TDD	PASS	DASY6
AM2	2600	05/17/2021	7532	2600	Body	2.165	51.687	PASS	PASS	PASS	TDD	PASS	DASY6
AM9	5250	11/05/2021	7638	5250	Body	5.412	47.566	PASS	PASS	PASS	OFDM	N/A	DASY5
AM9	5600	11/05/2021	7638	5600	Body	5.925	46.935	PASS	PASS	PASS	OFDM	N/A	DASY5
AM9	5750	11/05/2021	7638	5750	Body	6.129	46.600	PASS	PASS	PASS	OFDM	N/A	DASY5

NOTE: The probes have been calibrated for both CW and modulated signals. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

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APPENDIX F: LTE LOWER BANDWIDTH RF CONDUCTED POWERS

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F.1 LTE Lower Bandwidth RF Conducted Powers

F.1.1 LTE Band 12

Table F-1
LTE Band 12 Conducted Power Antenna BCM - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.60	24.72	24.53	0	0
	1	12	24.62	24.57	24.48		0
	1	24	24.86	24.39	24.75		0
	12	0	23.53	23.72	23.57	0-1	1
	12	6	23.59	23.71	23.53		1
	12	13	23.66	23.67	23.61		1
	25	0	23.60	23.73	23.56		1
16QAM	1	0	23.45	23.48	23.25	0-1	1
	1	12	23.39	23.43	23.25		1
	1	24	23.61	23.31	23.26		1
	12	0	22.00	22.18	22.00	0-2	2
	12	6	21.97	22.16	21.90		2
	12	13	22.15	22.13	21.95		2
	25	0	22.02	22.15	21.94		2

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Table F-2
LTE Band 12 Conducted Power Antenna BCM - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.10	24.27	24.10	0	0
	1	7	24.25	24.32	24.33		0
	1	14	24.10	24.19	24.29		0
	8	0	23.83	23.36	23.81	0-1	1
	8	4	23.77	23.34	23.89		1
	8	7	23.82	23.21	23.93		1
	15	0	23.83	23.37	23.91		1
16QAM	1	0	23.22	23.12	23.08	0-1	1
	1	7	23.17	23.18	23.15		1
	1	14	23.06	23.32	23.34		1
	8	0	22.05	22.26	22.02	0-2	2
	8	4	21.93	21.93	22.03		2
	8	7	22.02	22.03	22.08		2
	15	0	21.86	22.29	22.17		2

Table F-3
LTE Band 12 Conducted Power Antenna BCM - 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.21	24.32	24.14	0	0
	1	2	24.28	24.29	24.28		0
	1	5	24.14	24.32	24.13		0
	3	0	24.12	24.26	24.16		0
	3	2	24.09	24.26	24.17		0
	3	3	24.12	24.20	24.18		0
	6	0	23.84	23.90	23.89	0-1	1
16QAM	1	0	23.30	23.32	23.50	0-1	1
	1	2	23.35	23.48	23.49		1
	1	5	23.16	23.49	23.47		1
	3	0	22.90	22.91	22.91		1
	3	2	22.96	22.96	22.95		1
	3	3	22.90	22.92	22.90		1
	6	0	21.93	22.05	22.01	0-2	2

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LTE Band 13

Table F-4
LTE Band 13 Conducted Power Antenna BCM - 5 MHz Bandwidth

LTE Band 13 5 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	25.00	0	0
	1	12	24.80		0
	1	24	24.93		0
	12	0	24.01	0-1	1
	12	6	23.95		1
	12	13	23.92		1
	25	0	24.04		1
16QAM	1	0	24.10	0-1	1
	1	12	23.91		1
	1	24	24.09		1
	12	0	22.62	0-2	2
	12	6	22.51		2
	12	13	22.50		2
	25	0	22.56		2

Note: LTE Band 13 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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LTE Band 14

Table F-5
LTE Band 14 Conducted Power Antenna BCM - 5 MHz Bandwidth

LTE Band 14 5 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	24.00	0	0
	1	12	24.17		0
	1	24	24.16		0
	12	0	23.02	0-1	1
	12	6	23.13		1
	12	13	23.14		1
	25	0	23.16		1
16QAM	1	0	23.65	0-1	1
	1	12	23.95		1
	1	24	23.99		1
	12	0	22.04	0-2	2
	12	6	22.18		2
	12	13	22.15		2
	25	0	22.13		2

Note: LTE Band 14 at 5 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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LTE Band 26

Table F-6
LTE Band 26 Conducted Power Antenna BCM - 5 MHz Bandwidth

LTE Band 26 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26715 (816.5 MHz)	26865 (831.5 MHz)	27015 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.87	23.89	23.99	0	0
	1	12	23.94	23.88	23.92		0
	1	24	24.11	23.97	23.99		0
	12	0	22.93	22.91	22.97	0-1	1
	12	6	22.98	22.93	22.95		1
	12	13	23.09	22.98	23.09		1
	25	0	23.03	22.95	23.00		1
16QAM	1	0	23.38	23.45	23.46	0-1	1
	1	12	23.50	23.53	23.48		1
	1	24	23.74	23.60	23.41		1
	12	0	21.78	21.77	21.71	0-2	2
	12	6	21.80	21.83	21.70		2
	12	13	21.85	21.82	21.78		2
	25	0	21.84	21.80	21.80		2

Table F-7
LTE Band 26 Conducted Power Antenna BCM - 3 MHz Bandwidth

LTE Band 26 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26705 (815.5 MHz)	26865 (831.5 MHz)	27025 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.97	23.83	23.87	0	0
	1	7	24.01	23.90	24.01		0
	1	14	24.06	23.91	24.03		0
	8	0	22.96	22.93	22.96	0-1	1
	8	4	22.92	22.97	23.06		1
	8	7	23.00	22.94	23.05		1
	15	0	22.96	22.97	23.09		1
16QAM	1	0	23.43	23.10	23.40	0-1	1
	1	7	23.44	23.27	23.40		1
	1	14	23.40	23.24	23.39		1
	8	0	21.72	21.74	21.62	0-2	2
	8	4	21.70	21.83	21.67		2
	8	7	21.82	21.80	21.72		2
	15	0	21.75	21.77	21.81		2

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Table F-8
LTE Band 26 Conducted Power Antenna BCM - 1.4 MHz Bandwidth

LTE Band 26 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26697 (814.7 MHz)	26865 (831.5 MHz)	27033 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.63	23.89	23.79	0	0
	1	2	23.74	23.81	23.76		0
	1	5	23.70	23.84	23.88		0
	3	0	23.61	23.70	23.69		0
	3	2	23.68	23.71	23.74		0
	3	3	23.67	23.76	23.75		0
	6	0	22.79	22.80	22.78	0-1	1
16QAM	1	0	22.89	23.17	23.12	0-1	1
	1	2	22.87	22.96	22.97		1
	1	5	22.93	22.97	23.25		1
	3	0	22.50	22.52	22.57		1
	3	2	22.52	22.51	22.53		1
	3	3	22.57	22.59	22.56		1
	6	0	21.55	21.66	21.52	0-2	2

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LTE Band 5

Table F-9
LTE Band 5 Conducted Power Antenna BCM - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.62	24.49	24.68	0	0
	1	12	24.65	24.43	24.67		0
	1	24	24.72	24.40	24.54		0
	12	0	23.51	23.50	23.57	0-1	1
	12	6	23.50	23.47	23.55		1
	12	13	23.50	23.44	23.48		1
	25	0	23.52	23.51	23.55		1
16QAM	1	0	23.99	23.94	24.01	0-1	1
	1	12	23.99	23.87	23.87		1
	1	24	24.10	23.87	23.66		1
	12	0	22.61	22.66	22.66	0-2	2
	12	6	22.62	22.69	22.69		2
	12	13	22.61	22.67	22.70		2
	25	0	22.54	22.50	22.53		2

Table F-10
LTE Band 5 Conducted Power Antenna BCM - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.58	24.40	24.40	0	0
	1	7	24.68	24.44	24.36		0
	1	14	24.63	24.37	24.24		0
	8	0	23.47	23.50	23.54	0-1	1
	8	4	23.53	23.47	23.48		1
	8	7	23.54	23.47	23.45		1
	15	0	23.53	23.51	23.48		1
16QAM	1	0	23.77	23.72	23.79	0-1	1
	1	7	23.92	23.77	23.64		1
	1	14	23.81	23.73	23.52		1
	8	0	22.79	22.67	22.60	0-2	2
	8	4	22.77	22.68	22.66		2
	8	7	22.83	22.71	22.62		2
	15	0	22.55	22.52	22.54		2

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Table F-11
LTE Band 5 Conducted Power Antenna BCM - 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.67	24.47	24.56	0	0
	1	2	24.65	24.45	24.49		0
	1	5	24.74	24.47	24.59		0
	3	0	24.50	24.55	24.49		0
	3	2	24.51	24.55	24.50		0
	3	3	24.52	24.55	24.49		0
	6	0	23.50	23.53	23.48	0-1	1
16QAM	1	0	23.85	23.73	23.63	0-1	1
	1	2	23.85	23.81	23.62		1
	1	5	23.90	23.78	23.59		1
	3	0	23.89	23.80	23.78		1
	3	2	23.93	23.81	23.76		1
	3	3	23.91	23.78	23.75		1
	6	0	22.67	22.65	22.44	0-2	2

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LTE Band 66

Table F-12
LTE Band 66 Conducted Power Antenna FCM - 15 MHz Bandwidth

LTE Band 66 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132047 (1717.5 MHz)	132322 (1745.0 MHz)	132597 (1772.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.41	23.16	23.16	0	0
	1	36	23.32	23.04	23.18		0
	1	74	23.21	22.91	23.06		0
	36	0	22.49	22.45	22.46	0-1	1
	36	18	22.48	22.45	22.47		1
	36	37	22.39	22.36	22.40		1
	75	0	22.53	22.46	22.63		1
	15	0	22.82	22.94	23.06	0	0
	15	30	22.90	22.95	23.05		0
	15	60	22.87	22.78	22.92		0
	27	0	22.25	22.30	22.41	0-1	1
	27	24	22.25	22.29	22.42		1
27	48	22.31	22.16	22.30	1		
16QAM	1	0	22.26	22.71	22.26	0-1	1
	1	36	22.15	22.49	22.08		1
	1	74	22.28	22.40	22.15		1
	15	0	21.92	22.13	21.99	0-1	1
	15	30	21.88	22.11	21.98		1
	15	60	21.92	22.02	21.91		1
	27	0	21.38	21.33	21.48	0-2	2
	27	24	21.23	21.30	21.33		2
	27	48	21.29	21.23	21.27		2

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Table F-13
LTE Band 66 Conducted Power Antenna FCM - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.98	23.22	22.91	0	0
	1	25	22.88	23.07	22.84		0
	1	49	23.04	23.04	22.90		0
	25	0	22.56	22.57	22.41	0-1	1
	25	12	22.53	22.45	22.36		1
	25	25	22.51	22.43	22.35		1
	50	0	22.54	22.46	22.41	1	
	15	0	22.50	22.45	22.40	0-1	1
	15	17	22.51	22.41	22.35		1
	15	35	22.56	22.35	22.47		1
	27	0	22.51	22.41	22.49	0-1	1
	27	12	22.49	22.39	22.36		1
27	23	22.50	22.26	22.37	1		
16QAM	1	0	22.73	22.52	22.71	0-1	1
	1	25	22.66	22.41	22.53		1
	1	49	22.69	22.47	22.65		1
	25	0	21.81	21.75	21.78	0-2	2
	25	12	21.83	21.70	21.74		2
	25	25	21.79	21.67	21.73		2
	15	0	21.76	21.73	21.77	0-2	2
	15	17	21.73	21.71	21.74		2
	15	35	21.73	21.68	21.72		2
	27	0	21.79	21.69	21.74		2
	27	12	21.78	21.65	21.71		2
	27	23	21.77	21.64	21.70		2

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Table F-14
LTE Band 66 Conducted Power Antenna FCM - 5 MHz Bandwidth

LTE Band 66 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131997 (1712.5 MHz)	132322 (1745.0 MHz)	132647 (1777.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.28	23.08	23.15	0	0
	1	12	23.28	23.04	23.01		0
	1	24	23.17	23.03	23.10		0
	12	0	22.64	22.46	22.46	0-1	1
	12	6	22.59	22.42	22.46		1
	12	13	22.60	22.38	22.49		1
	25	0	22.62	22.42	22.47		1
16QAM	1	0	22.89	23.00	22.88	0-1	1
	1	12	23.04	23.03	22.96		1
	1	24	23.02	22.98	22.87		1
	12	0	21.89	21.83	21.89	0-2	2
	12	6	21.91	21.86	21.88		2
	12	13	21.92	21.82	21.86		2
	25	0	21.90	21.78	21.83		2

Table F-15
LTE Band 66 Conducted Power Antenna FCM - 3 MHz Bandwidth

LTE Band 66 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131987 (1711.5 MHz)	132322 (1745.0 MHz)	132657 (1778.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.24	23.01	22.98	0	0
	1	7	23.36	22.99	23.05		0
	1	14	23.20	22.99	23.01		0
	8	0	22.62	22.36	22.37	0-1	1
	8	4	22.63	22.35	22.39		1
	8	7	22.56	22.35	22.42		1
	15	0	22.64	22.38	22.42		1
16QAM	1	0	23.07	22.95	22.72	0-1	1
	1	7	22.98	22.85	22.76		1
	1	14	22.99	22.90	22.68		1
	8	0	21.88	21.93	21.89	0-2	2
	8	4	22.03	21.88	21.84		2
	8	7	21.99	21.94	21.91		2
	15	0	21.92	21.95	21.83		2

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Table F-16
LTE Band 66 Conducted Power Antenna FCM - 1.4 MHz Bandwidth

LTE Band 66 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			131979 (1710.7 MHz)	132322 (1745.0 MHz)	132665 (1779.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.20	23.07	23.23	0	0
	1	2	23.09	23.08	23.20		0
	1	5	23.13	23.06	23.13		0
	3	0	23.14	23.15	23.16		0
	3	2	23.23	23.16	23.15		0
	3	3	23.30	23.19	23.14		0
	6	0	22.58	22.48	22.48	0-1	1
16QAM	1	0	22.88	22.90	22.93	0-1	1
	1	2	22.79	23.00	22.90		1
	1	5	22.98	22.92	22.95		1
	3	0	22.78	22.91	22.57		1
	3	2	22.85	22.85	22.49		1
	3	3	22.88	22.76	22.48		1
	6	0	21.96	21.98	21.79	0-2	2

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LTE Band 25

Table F-17
LTE Band 25 Conducted Power Antenna FCM - 15 MHz Bandwidth

LTE Band 25 (PCS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26115 (1857.5 MHz)	26365 (1882.5 MHz)	26615 (1907.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.08	23.47	23.20	0	0
	1	36	23.27	23.33	23.02		0
	1	74	23.43	23.10	23.03		0
	36	0	22.37	22.59	22.05	0-1	1
	36	18	22.47	22.44	21.98		1
	36	37	22.54	22.36	22.04		1
	75	0	22.52	22.49	22.30	0	1
	15	0	23.27	23.59	23.11		0
	15	30	23.43	23.47	22.90		0
	15	60	23.57	23.25	23.02	0-1	0
	27	0	22.26	22.60	22.00		1
	27	24	22.42	22.44	21.91		1
	27	48	22.50	22.30	21.97	0-1	1
	1	0	22.65	23.05	22.76		1
16QAM	1	36	22.91	23.00	22.74	0-1	1
	1	74	23.04	22.72	22.55		1
	15	0	22.27	22.46	22.24		1
	15	30	22.46	22.40	22.20	0-1	1
	15	60	22.47	22.30	22.00		1
	27	0	21.27	21.46	21.27		0-2
	27	24	21.39	21.38	21.17	2	
	27	48	21.41	21.26	21.05	2	

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Table F-18
LTE Band 25 Conducted Power Antenna FCM - 10 MHz Bandwidth

LTE Band 25 (PCS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26090 (1855.0 MHz)	26365 (1882.5 MHz)	26640 (1910.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.27	23.56	22.95	0	0
	1	25	23.32	23.30	23.00		0
	1	49	23.44	23.20	23.05		0
	25	0	22.28	22.50	21.90	0-1	1
	25	12	22.34	22.39	21.94		1
	25	25	22.38	22.31	22.05		1
	50	0	22.38	22.42	22.18	0-1	1
	15	0	22.23	22.61	21.92		1
	15	17	22.35	22.42	21.92		1
	15	35	22.44	22.36	22.10	0-1	1
	27	0	22.24	22.48	21.87		1
	27	12	22.31	22.38	21.93		1
27	23	22.37	22.31	22.04	1		
16QAM	1	0	22.61	22.96	22.42	0-1	1
	1	25	22.70	22.77	22.46		1
	1	49	22.84	22.63	22.64		1
	25	0	21.29	21.16	20.91	0-2	2
	25	12	21.32	21.09	20.81		2
	25	25	21.28	21.06	20.97		2
	15	0	21.27	21.23	20.81	0-2	2
	15	17	21.26	21.15	20.78		2
	15	35	21.28	21.06	20.98		2
	27	0	20.98	21.14	20.73		2
	27	12	21.04	21.06	21.00		2
	27	23	21.05	21.02	20.91		2

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Table F-19
LTE Band 25 Conducted Power Antenna FCM - 5 MHz Bandwidth

LTE Band 25 (PCS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26065 (1852.5 MHz)	26365 (1882.5 MHz)	26665 (1912.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.24	23.40	22.97	0	0
	1	12	23.18	23.23	23.00		0
	1	24	23.22	23.15	23.01		0
	12	0	22.22	22.37	21.94	0-1	1
	12	6	22.30	22.37	22.02		1
	12	13	22.33	22.34	22.05		1
	25	0	22.33	22.38	22.15		1
16QAM	1	0	21.88	23.05	22.34	0-1	1
	1	12	22.75	22.93	22.71		1
	1	24	22.80	22.87	22.70		1
	12	0	21.22	21.40	21.03	0-2	2
	12	6	21.22	21.32	21.09		2
	12	13	21.19	21.29	21.15		2
	25	0	21.20	21.26	21.04		2

Table F-20
LTE Band 25 Conducted Power Antenna FCM - 3 MHz Bandwidth

LTE Band 25 (PCS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26055 (1851.5 MHz)	26365 (1882.5 MHz)	26675 (1913.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.29	23.30	22.95	0	0
	1	7	23.28	23.24	23.00		0
	1	14	23.24	23.14	22.89		0
	8	0	22.24	22.34	22.01	0-1	1
	8	4	22.26	22.33	22.02		1
	8	7	22.33	22.34	21.99		1
	15	0	22.27	22.37	22.16		1
16QAM	1	0	22.70	22.97	22.71	0-1	1
	1	7	22.71	22.94	22.86		1
	1	14	22.60	22.86	22.63		1
	8	0	21.23	21.38	21.20	0-2	2
	8	4	21.17	21.33	21.18		2
	8	7	21.28	21.39	21.26		2
	15	0	21.19	21.28	21.11		2

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Table F-21
LTE Band 25 Conducted Power Antenna FCM - 1.4 MHz Bandwidth

LTE Band 25 (PCS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26047 (1850.7 MHz)	26365 (1882.5 MHz)	26683 (1914.3 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.32	23.34	23.15	0	0
	1	2	23.28	23.23	23.11		0
	1	5	23.24	23.25	23.07		0
	3	0	23.21	23.38	23.00		0
	3	2	23.20	23.32	22.98		0
	3	3	23.22	23.32	22.94		0
	6	0	22.20	22.34	22.18	0-1	1
16QAM	1	0	22.71	23.09	22.78	0-1	1
	1	2	22.70	22.87	22.71		1
	1	5	22.76	22.90	22.69		1
	3	0	22.55	22.70	22.40		1
	3	2	22.57	22.74	22.55		1
	3	3	22.51	22.71	22.53		1
	6	0	21.38	21.51	21.43	0-2	2

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LTE Band 7

Table F-22
LTE Band 7 Conducted Power Antenna FCM - 15 MHz Bandwidth

LTE Band 7 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20825 (2507.5 MHz)	21100 (2535.0 MHz)	21375 (2562.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.57	22.53	22.26	0	0
	1	36	22.36	22.29	22.32		0
	1	74	22.46	22.16	22.29		0
	36	0	21.48	21.60	21.42	0-1	1
	36	18	21.41	21.46	21.49		1
	36	37	21.38	21.29	21.46		1
	75	0	21.50	21.48	21.60	0	1
	15	0	22.57	22.39	22.37		0
	15	30	22.45	22.37	22.44		0
	15	60	22.44	22.17	22.41	0-1	0
	27	0	21.57	21.38	21.38		1
	27	24	21.41	21.35	21.44		1
	27	48	21.39	21.22	21.41	0-1	1
	16QAM	1	0	21.35	21.24		21.12
1		36	21.14	21.02	21.15	1	
1		74	21.25	20.75	21.15	1	
15		0	20.99	21.03	20.80	0-1	1
15		30	20.87	20.82	20.81		1
15		60	20.85	20.70	20.75		1
27		0	19.93	20.01	19.83	0-2	2
27		24	19.74	19.81	19.77		2
27	48	19.75	19.65	19.75	2		

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Table F-23
LTE Band 7 Conducted Power Antenna FCM - 10 MHz Bandwidth

LTE Band 7 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20800 (2505.0 MHz)	21100 (2535.0 MHz)	21400 (2565.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.31	22.46	22.26	0	0
	1	25	22.25	22.23	22.33		0
	1	49	22.38	22.14	22.28		0
	25	0	21.43	21.45	21.35	0-1	1
	25	12	21.38	21.36	21.53		1
	25	25	21.39	21.31	21.47		1
	50	0	21.43	21.39	21.52	0-1	1
	15	0	21.38	21.32	21.46		1
	15	17	21.36	21.38	21.52		1
	15	35	21.41	21.28	21.47	0-1	1
	27	0	21.43	21.35	21.48		1
	27	12	21.39	21.35	21.46		1
27	23	21.40	21.31	21.45	1		
16QAM	1	0	21.65	21.55	21.33	0-1	1
	1	25	21.44	21.24	21.23		1
	1	49	21.47	21.15	21.35		1
	25	0	20.19	20.11	20.12	0-2	2
	25	12	20.11	19.97	20.04		2
	25	25	20.07	19.90	20.05		2
	15	0	20.20	20.16	20.08	0-2	2
	15	17	20.14	20.01	20.05		2
	15	35	20.07	19.88	20.09		2
	27	0	20.17	20.03	20.08		2
	27	12	20.10	19.96	20.02		2
	27	23	20.07	19.92	20.01		2

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Table F-24
LTE Band 7 Conducted Power Antenna FCM - 5 MHz Bandwidth

LTE Band 7 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20775 (2502.5 MHz)	21100 (2535.0 MHz)	21425 (2567.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.20	22.15	22.26	0	0
	1	12	22.22	22.12	22.34		0
	1	24	22.17	22.11	22.37		0
	12	0	21.24	21.10	21.36	0-1	1
	12	6	21.20	21.06	21.38		1
	12	13	21.18	21.05	21.41		1
	25	0	21.21	21.08	21.40		1
16QAM	1	0	21.47	21.28	21.25	0-1	1
	1	12	21.46	21.29	21.24		1
	1	24	21.49	21.22	21.40		1
	12	0	20.19	20.02	19.98	0-2	2
	12	6	20.15	19.92	19.97		2
	12	13	20.08	19.90	20.01		2
	25	0	20.12	19.89	19.97		2

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LTE Band 41

Table F-25
LTE Band 41 Conducted Power Antenna FCM - 15 MHz Bandwidth

LTE Band 41 15 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	22.18	21.79	22.01	22.25	22.31	0	0
	1	36	22.09	21.83	22.11	22.22	22.28		0
	1	74	22.01	21.81	22.19	22.24	22.26		0
	36	0	20.91	20.63	20.89	21.13	21.21	0-1	1
	36	18	20.96	20.69	20.94	21.09	21.15		1
	36	37	20.90	20.67	20.98	21.10	21.16		1
	75	0	20.97	20.72	20.98	21.15	21.19	0	1
	15	0	22.03	21.68	21.89	22.09	22.13		0
	15	30	21.94	21.73	21.99	22.09	22.13		0
	15	60	21.90	21.70	22.02	22.08	22.07	0-1	0
	27	0	20.98	20.64	20.88	21.09	21.11		1
	27	24	20.91	20.69	20.94	21.06	21.10		1
27	48	20.85	20.65	21.00	21.05	21.10	1		
16QAM	1	0	21.35	20.78	20.99	21.24	21.32	0-1	1
	1	36	21.18	20.89	21.12	21.43	21.27		1
	1	74	21.07	20.84	21.14	21.11	21.43		1
	15	0	21.02	20.62	20.85	21.14	21.12	0-1	1
	15	30	20.92	20.69	20.94	21.07	21.12		1
	15	60	20.88	20.66	20.97	21.07	21.01		1
	27	0	19.93	19.64	19.85	20.07	20.09	0-2	2
	27	24	19.91	19.66	19.91	20.04	20.07		2
27	48	19.83	19.60	19.96	20.02	20.10		2	

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Table F-26
LTE Band 41 Conducted Power Antenna FCM - 10 MHz Bandwidth

LTE Band 41 10 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	22.17	21.62	22.13	22.12	22.24	0	0
	1	25	22.11	21.74	22.15	22.17	22.16		0
	1	49	22.06	21.75	22.19	22.19	22.13		0
	25	0	21.01	20.62	21.08	21.06	21.07	0-1	1
	25	12	21.04	20.65	21.07	21.03	21.06		1
	25	25	20.97	20.64	21.08	21.02	21.07		1
	50	0	21.00	20.66	21.10	21.04	21.09	0-1	1
	15	0	20.98	20.64	21.09	21.08	21.14		1
	15	17	21.02	20.68	21.08	21.11	21.16		1
	15	35	20.97	20.66	21.12	21.04	21.13	0-1	1
	27	0	20.98	20.63	21.08	21.07	21.04		1
	27	12	20.92	20.64	21.09	21.01	21.07		1
27	23	20.91	20.63	21.10	21.02	21.10	1		
16QAM	1	0	20.91	20.95	21.31	21.27	21.24	0-1	1
	1	25	20.88	20.87	21.29	21.13	21.20		1
	1	49	20.93	20.93	21.34	21.08	21.18		1
	25	0	19.67	19.68	20.15	20.01	19.96	0-2	2
	25	12	19.71	19.68	20.10	19.92	19.97		2
	25	25	19.73	19.62	20.13	19.93	20.01		2
	15	0	19.63	19.69	20.15	20.03	20.03	0-2	2
	15	17	19.74	19.71	20.11	19.94	20.01		2
	15	35	19.77	19.70	20.13	19.93	20.03		2
	27	0	19.67	19.65	20.14	20.01	19.95		2
	27	12	19.65	19.67	20.08	19.93	19.96		2
	27	23	19.73	19.68	20.10	19.92	19.98		2

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Table F-27
LTE Band 41 Conducted Power Antenna FCM - 5 MHz Bandwidth

LTE Band 41 5 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	21.94	21.78	22.32	22.09	22.15	0	0
	1	12	21.85	21.78	22.28	22.02	22.18		0
	1	24	21.95	21.76	22.33	22.02	22.21		0
	12	0	20.77	20.69	21.25	21.07	21.06	0-1	1
	12	6	20.79	20.71	21.19	20.99	21.06		1
	12	13	20.77	20.69	21.22	20.98	21.08		1
	25	0	20.74	20.71	21.20	20.99	21.06		1
16QAM	1	0	20.86	20.79	21.20	21.16	21.03	0-1	1
	1	12	20.64	20.80	21.16	21.11	20.92		1
	1	24	20.73	20.67	21.20	20.99	21.04		1
	12	0	19.69	19.70	20.19	20.04	20.03	0-2	2
	12	6	19.72	19.74	20.11	19.95	20.04		2
	12	13	19.68	19.68	20.14	19.96	20.00		2
	25	0	19.71	19.70	20.16	19.95	20.02		2

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