



SAR EVALUATION REPORT

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

Date of Testing:
06/16/2021 – 08/15/2021
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C2106070045-22.BCG (Rev 1)

FCC ID: BCG-A2477

APPLICANT: APPLE, INC.

DUT Type: Watch
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A2477

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	0.20
PCT	UMTS 1750	1712.4 - 1752.6 MHz	0.35	< 0.1
PCT	UMTS 1900	1852.4 - 1907.6 MHz	0.55	< 0.1
PCT	LTE Band 12	699.7 - 715.3 MHz	< 0.1	0.18
PCT	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A
PCT	LTE Band 13	779.5 - 784.5 MHz	< 0.1	0.22
PCT	LTE Band 14	790.5 - 795.5 MHz	< 0.1	0.22
PCT	LTE Band 26 (Cell)	814.7 - 848.3 MHz	< 0.1	0.21
PCT	LTE Band 5 (Cell)	824.7 - 848.3 MHz	< 0.1	0.24
PCT	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.40	< 0.1
PCT	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A
PCT	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	0.59	< 0.1
PCT	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A
PCT	LTE Band 7	2502.5 - 2567.5 MHz	0.98	< 0.1
PCT	LTE Band 41	2498.5 - 2687.5 MHz	0.41	< 0.1
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.48	< 0.1
NII	U-NII-1	5180 - 5240 MHz	N/A	N/A
NII	U-NII-2A	5260 - 5320 MHz	0.10	< 0.1
NII	U-NII-2C	5500 - 5720 MHz	0.14	< 0.1
NII	U-NII-3	5745 - 5825 MHz	0.15	< 0.1
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.15	< 0.1
Simultaneous SAR per KDB 690783 D01v01r03:			1.44	0.26

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 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
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 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	25.0	25.0	24.0
	Nominal	24.0	24.0	23.0
UMTS B4 (1750 MHz)	Max allowed power	24.0	24.0	23.0
	Nominal	23.0	23.0	22.0
UMTS B2 (1900 MHz)	Max allowed power	24.0	24.0	23.0
	Nominal	23.0	23.0	22.0

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

Mode/ Band		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	16.00	15.00	16.00	15.00
		140	13.50	12.50	13.50	12.50
		144	17.00	16.00	17.00	16.00
		149	17.00	16.00	17.00	16.00
		153	17.00	16.00	17.00	16.00
		157	17.00	16.00	17.00	16.00
		161	17.00	16.00	17.00	16.00
		165	17.00	16.00	17.00	16.00

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1.3.4 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

- 2.4 GHz WLAN and 2.4 GHz Bluetooth share the same antenna path and cannot transmit simultaneously.
- 2.4 GHz WLAN and 5 GHz WLAN share the same antenna path and cannot transmit simultaneously.
- Licensed modes cannot transmit simultaneously.
- 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.
- 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.

(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 16QAM as described in Section 7.5.4.

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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: 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.

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LTE Information					
Form Factor	Watch				
Frequency Range of each LTE transmission band	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)		
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)		
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)		
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)		
LTE Band 17: 5 MHz	706.5 (23755)	710 (23790)	713.5 (23825)		
LTE Band 17: 10 MHz	709 (23780)	710 (23790)	711 (23800)		
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)		
LTE Band 13: 10 MHz	N/A	782 (23230)	N/A		
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)		
LTE Band 14: 10 MHz	N/A	793 (23330)	N/A		
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)		
LTE Band 26 (Cell): 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)		
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)		
LTE Band 26 (Cell): 10 MHz	819 (26740)	831.5 (26865)	844 (26990)		
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)		
LTE Band 5 (Cell): 3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)		
LTE Band 5 (Cell): 5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)		
LTE Band 5 (Cell): 10 MHz	829 (20450)	836.5 (20525)	844 (20600)		
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)		
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)		
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)		
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)		
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)		
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)		
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)		
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)		
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)		
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)		
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)		
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)		
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)		
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)		
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)		
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)		
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)		
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)		
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)		
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)		
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)		
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)		
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)		
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)		
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)		
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)		
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)		
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)		
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	1				
Modulations Supported in UL	QPSK, 16QAM				
LTE MPR Permanently implemented per 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 Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
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 and IEEE 1528-2013:

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) and IEEE 1528-2013.
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) and IEEE 1528-2013. 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.

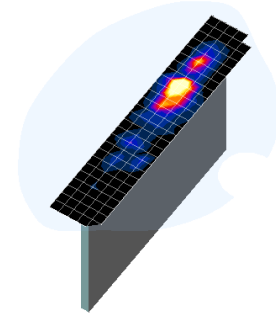


Figure 4-1
Sample SAR Area Scan

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	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥22

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

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

5.2 Positioning for Head

Devices that are designed to be worn on the wrist may operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. When next-to-mouth SAR evaluation is required, the device is positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. The device is evaluated with wristbands 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 is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. 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 channels in 12.2 AMR with a 3.4 kbps SRB (signal radio bearer) using the highest reported SAR 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 16QAM 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, 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. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. 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). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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8 RF CONDUCTED POWERS

8.1 UMTS 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	23.98	24.04	23.82	22.97	23.02	22.92	23.03	23.11	22.91	-
99		12.2 kbps AMR	23.88	23.90	23.78	23.02	23.03	22.82	22.98	23.07	22.86	-
6	HSDPA	Subtest 1	24.50	24.43	24.30	23.14	23.16	22.98	23.30	23.27	23.17	0
6		Subtest 2	23.52	23.51	23.31	22.15	22.28	22.10	22.44	22.43	22.25	0
6		Subtest 3	23.00	23.02	22.77	21.65	21.83	21.63	21.79	21.85	21.74	0.5
6		Subtest 4	22.73	22.72	22.51	21.52	21.65	21.53	21.70	21.72	21.71	0.5
6	HSUPA	Subtest 1	22.72	22.73	22.51	22.42	22.55	22.39	22.65	22.63	22.50	0
6		Subtest 2	21.49	21.45	21.23	20.16	20.29	20.14	20.49	20.51	20.31	2
6		Subtest 3	22.51	22.47	22.24	21.03	21.13	21.00	21.23	21.25	21.09	1
6		Subtest 4	21.76	21.73	21.51	20.24	20.56	20.40	20.63	20.77	20.55	2
6		Subtest 5	23.74	23.70	23.53	22.46	22.56	22.41	22.63	22.71	22.54	0

This device does not support DC-HSDPA.



Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

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

8.2.1 LTE Band 12

Table 8-1
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	24.29	0	0
	1	25	24.38		0
	1	49	24.16		0
	25	0	23.48	0-1	1
	25	12	23.49		1
	25	25	23.40		1
	50	0	23.48		1
	15	0	23.50	0-1	1
	15	17	23.61		1
	15	35	23.49		1
	27	0	23.57	0-1	1
	27	12	23.58		1
	27	23	23.50		1
16QAM	1	0	23.50	0-1	1
	1	25	23.49		1
	1	49	23.43		1
	25	0	22.17	0-2	2
	25	12	22.22		2
	25	25	22.11		2
	15	0	22.14	0-2	2
	15	17	22.25		2
	15	35	22.08		2
	27	0	22.22		2
	27	12	22.21		2
	27	23	22.09		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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8.2.2

LTE Band 13

Table 8-2
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	24.54	0	0
	1	25	24.31		0
	1	49	24.62		0
	25	0	23.70	0-1	1
	25	12	23.51		1
	25	25	23.54		1
	50	0	23.69		1
	15	0	23.71	0-1	1
	15	17	23.46		1
	15	35	23.62		1
	27	0	23.70	0-1	1
	27	12	23.54		1
	27	23	23.55		1
16QAM	1	0	23.49	0-1	1
	1	25	23.39		1
	1	49	23.60		1
	25	0	22.27	0-2	2
	25	12	22.18		2
	25	25	22.15		2
	15	0	22.31	0-2	2
	15	17	22.14		2
	15	35	22.20		2
	27	0	22.22		2
	27	12	22.17		2
	27	23	22.12		2

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LTE Band 14

Table 8-3
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	24.34	0	0
	1	25	24.69		0
	1	49	24.29		0
	25	0	23.65	0-1	1
	25	12	23.70		1
	25	25	23.57		1
	50	0	23.69		1
	15	0	23.52	0-1	1
	15	17	23.69		1
	15	35	23.53		1
	27	0	23.67	0-1	1
	27	12	23.68		1
	27	23	23.60		1
16QAM	1	0	23.86	0-1	1
	1	25	24.02		1
	1	49	23.78		1
	25	0	22.66	0-2	2
	25	12	22.74		2
	25	25	22.62		2
	15	0	22.53	0-2	2
	15	17	22.77		2
	15	35	22.54		2
	27	0	22.76		2
	27	12	22.77		2
	27	23	22.65		2

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8.2.4

LTE Band 26

Table 8-4
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	24.47	24.53	24.77	0	0
	1	25	24.76	24.44	24.52		0
	1	49	24.82	24.60	24.62		0
	25	0	23.60	23.45	23.75	0-1	1
	25	12	23.75	23.51	23.57		1
	25	25	23.84	23.55	23.55		1
	50	0	23.81	23.62	23.68	0-1	1
	15	0	23.48	23.48	23.76		1
	15	17	23.71	23.52	23.55		1
	15	35	23.81	23.62	23.57	0-1	1
	27	0	23.56	23.41	23.74		1
	27	12	23.76	23.48	23.54		1
27	23	23.83	23.51	23.55	1		
16QAM	1	0	23.67	23.85	24.01	0-1	1
	1	25	23.94	23.87	23.83		1
	1	49	24.03	23.88	23.85		1
	25	0	22.51	22.46	22.62	0-2	2
	25	12	22.66	22.49	22.48		2
	25	25	22.81	22.52	22.39		2
	15	0	22.47	22.45	22.64	0-2	2
	15	17	22.66	22.43	22.47		2
	15	35	22.79	22.55	22.41		2
	27	0	22.51	22.44	22.59		2
	27	12	22.70	22.49	22.44		2
	27	23	22.78	22.50	22.39		2

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LTE Band 5

Table 8-5
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	24.39	0	0
	1	25	24.55		0
	1	49	24.61		0
	25	0	23.59	0-1	1
	25	12	23.66		1
	25	25	23.74		1
	50	0	23.73	0-1	1
	15	0	23.50		1
	15	17	23.68		1
	15	35	23.77	0-1	1
	27	0	23.64		1
	27	12	23.70		1
	27	23	23.77		1
16QAM	1	0	23.74	0-1	1
	1	25	23.90		1
	1	49	23.94		1
	25	0	22.62	0-2	2
	25	12	22.70		2
	25	25	22.77		2
	15	0	22.49	0-2	2
	15	17	22.66		2
	15	35	22.76		2
	27	0	22.63		2
	27	12	22.69		2
	27	23	22.76		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 8-6
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	23.07	23.00	23.12	0	0
	1	50	22.93	22.96	23.09		0
	1	99	23.20	22.98	23.09		0
	50	0	22.39	22.38	22.40	0-1	1
	50	25	22.43	22.40	22.43		1
	50	50	22.45	22.42	22.44		1
	100	0	22.41	22.37	22.43	0	1
	15	0	23.28	23.32	23.41		0
	15	42	23.25	23.27	23.28		0
	15	85	23.38	23.41	23.25	0	
	27	0	22.68	22.84	22.80	0-1	1
	27	37	22.70	22.78	22.76		1
27	73	22.77	22.82	22.73	1		
16QAM	1	0	22.70	22.62	22.73	0-1	1
	1	50	22.57	22.52	22.53		1
	1	99	22.89	22.61	22.56		1
	15	0	22.37	22.43	22.52	0-1	1
	15	42	22.27	22.35	22.40		1
	15	85	22.45	22.38	22.33		1
	27	0	21.75	21.74	21.93	0-2	2
	27	37	21.72	21.73	21.80		2
27	73	21.79	21.76	21.75	2		

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LTE Band 25

Table 8-7
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	22.84	23.20	23.14	0	0
	1	50	23.01	23.11	23.00		0
	1	99	23.24	23.08	23.14		0
	50	0	22.00	22.23	22.14	0-1	1
	50	25	22.08	22.12	22.12		1
	50	50	22.37	22.10	22.16		1
	100	0	22.35	22.22	22.14	0	1
	15	0	23.32	23.30	23.22		0
	15	42	23.44	23.25	23.18		0
	15	85	23.50	23.17	23.16	0-1	0
	27	0	22.29	22.35	22.21		1
	27	37	22.40	22.27	22.17		1
27	73	22.43	22.18	22.17	1		
16QAM	1	0	22.60	22.63	22.50	0-1	1
	1	50	22.59	22.64	22.46		1
	1	99	22.70	22.55	22.55		1
	15	0	22.38	22.38	22.29	0-1	1
	15	42	22.53	22.36	22.28		1
	15	85	22.61	22.18	22.27		1
	27	0	21.30	21.39	21.24	0-2	2
	27	37	21.41	21.27	21.19		2
27	73	21.51	21.19	21.16	2		

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LTE Band 7

Table 8-8
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	22.11	22.21	22.22	0	0
	1	50	22.10	22.08	22.31		0
	1	99	22.30	22.11	22.40		0
	50	0	21.13	21.12	21.18	0-1	1
	50	25	21.10	21.09	21.36		1
	50	50	21.17	21.03	21.39		1
	100	0	21.16	21.11	21.38	0	1
	15	0	22.16	22.06	22.15		0
	15	42	22.10	22.00	22.10		0
	15	85	22.09	21.99	22.10	0-1	0
	27	0	21.07	21.05	21.10		1
	27	37	21.08	21.03	21.08		1
	27	73	21.06	20.95	21.07	1	
	16QAM	1	0	21.55	21.43	21.36	0-1
1		50	21.44	21.35	21.34	1	
1		99	21.54	21.16	21.45	1	
15		0	21.18	21.12	21.17	0-1	1
15		42	21.13	21.06	21.11		1
15		85	21.17	21.03	21.09		1
27		0	20.09	20.06	20.14	0-2	2
27		37	20.11	20.06	20.15		2
27		73	20.12	20.02	20.10		2

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LTE Band 41

Table 8-9
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	22.27	22.25	22.54	22.48	22.44	0	0
	1	50	22.36	22.38	22.68	22.57	22.47		0
	1	99	22.39	22.37	22.66	22.56	22.27		0
	50	0	21.22	21.23	21.55	21.38	21.45	0-1	1
	50	25	21.23	21.29	21.61	21.36	21.42		1
	50	50	21.20	21.30	21.60	21.37	21.38		1
	100	0	21.22	21.29	21.60	21.37	21.54	0	1
	15	0	22.22	22.10	22.51	22.42	22.40		0
	15	42	22.30	22.25	22.54	22.46	22.41		0
	15	85	22.25	22.28	22.52	22.51	22.17	0-1	0
	27	0	21.21	21.11	21.43	21.42	21.34		1
	27	37	21.30	21.26	21.52	21.46	21.33		1
27	73	21.24	21.25	21.46	21.46	21.13	1		
16QAM	1	0	21.11	21.06	21.17	21.39	21.50	0-1	1
	1	50	21.23	21.18	21.44	21.50	21.32		1
	1	99	21.21	21.15	21.33	21.51	21.12		1
	15	0	21.17	21.10	21.45	21.42	21.36	0-1	1
	15	42	21.30	21.22	21.53	21.43	21.40		1
	15	85	21.25	21.24	21.50	21.51	21.17		1
	27	0	20.16	20.08	20.40	20.37	20.35	0-2	2
	27	37	20.22	20.22	20.51	20.40	20.36		2
27	73	20.17	20.20	20.45	20.43	20.14	2		

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8.3 WLAN Conducted Powers

Table 8-10
2.4 GHz WLAN Maximum 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	17.60	16.02	16.05
2417	2	N/A	17.03	16.97
2422	3	N/A	17.14	17.15
2437	6	17.61	17.07	17.09
2452	9	N/A	17.13	17.07
2457	10	N/A	17.00	17.01
2462	11	17.80	13.03	13.02

Table 8-11
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	15.97	16.02
5200	40	16.08	16.04
5220	44	16.07	16.05
5240	48	15.99	15.87
5260	52	15.85	15.90
5280	56	15.70	15.71
5300	60	16.08	16.04
5320	64	16.04	15.96
5500	100	16.00	16.10
5600	120	16.20	16.07
5620	124	16.16	16.02
5720	144	15.93	16.00
5745	149	16.04	15.97
5785	157	16.18	16.03
5825	165	16.15	16.05

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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.

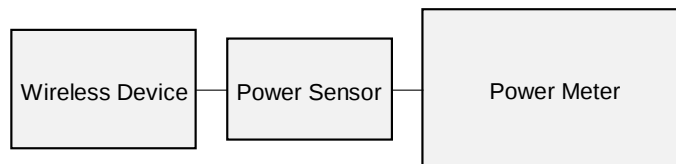


Figure 8-2
Power Measurement Setup

8.4 Bluetooth Conducted Powers

Table 8-12
Bluetooth Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.19	16.558
2441	GFSK	1.0	39	12.12	16.293
2480	GFSK	1.0	78	12.17	16.482

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

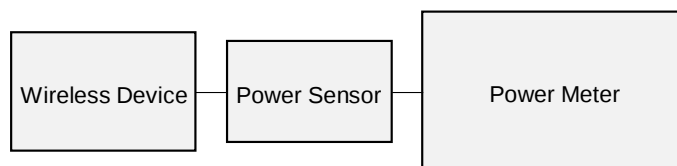


Figure 8-3
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
06/22/2021	750 Head	21.3	680	0.895	41.803	0.888	42.305	0.79%	-1.19%
			695	0.899	41.773	0.889	42.227	1.12%	-1.08%
			700	0.901	41.765	0.889	42.201	1.35%	-1.03%
			710	0.904	41.749	0.890	42.149	1.57%	-0.95%
			725	0.910	41.712	0.891	42.071	2.13%	-0.85%
			750	0.919	41.626	0.894	41.942	2.80%	-0.75%
			770	0.926	41.576	0.895	41.838	3.46%	-0.63%
			785	0.931	41.544	0.896	41.760	3.91%	-0.52%
			800	0.936	41.503	0.897	41.682	4.35%	-0.43%
			800	0.936	41.503	0.897	41.682	4.35%	-0.43%
06/24/2021	750 Head	21.0	680	0.870	42.109	0.888	42.305	-2.03%	-0.46%
			695	0.874	42.071	0.889	42.227	-1.69%	-0.37%
			700	0.875	42.060	0.889	42.201	-1.57%	-0.33%
			710	0.879	42.035	0.890	42.149	-1.24%	-0.27%
			725	0.884	41.991	0.891	42.071	-0.79%	-0.19%
			750	0.893	41.917	0.894	41.942	-0.11%	-0.06%
			770	0.900	41.876	0.895	41.838	0.56%	0.09%
			785	0.905	41.850	0.896	41.760	1.00%	0.22%
			800	0.910	41.819	0.897	41.682	1.45%	0.33%
			800	0.910	41.819	0.897	41.682	1.45%	0.33%
08/12/2021	750 Head	21.9	680	0.881	41.222	0.888	42.305	-0.79%	-2.56%
			695	0.886	41.196	0.889	42.227	-0.34%	-2.44%
			700	0.888	41.190	0.889	42.201	-0.11%	-2.40%
			710	0.891	41.174	0.890	42.149	0.11%	-2.31%
			725	0.897	41.132	0.891	42.071	0.67%	-2.23%
			750	0.907	41.025	0.894	41.942	1.45%	-2.19%
			770	0.914	40.972	0.895	41.838	2.12%	-2.07%
			785	0.918	40.947	0.896	41.760	2.46%	-1.95%
			800	0.924	40.908	0.897	41.682	3.01%	-1.86%
			800	0.924	40.908	0.897	41.682	3.01%	-1.86%
06/27/2021	835 Head	21.2	815	0.937	41.213	0.898	41.594	4.33%	-0.92%
			820	0.939	41.200	0.899	41.578	4.45%	-0.91%
			835	0.945	41.160	0.900	41.500	4.94%	-0.82%
			850	0.950	41.124	0.916	41.500	3.71%	-0.91%
			815	0.895	42.571	0.898	41.594	-0.33%	2.35%
08/02/2021	835 Head	22.9	820	0.897	42.557	0.899	41.578	-0.22%	2.35%
			835	0.904	42.504	0.900	41.500	0.44%	2.42%
			850	0.909	42.453	0.916	41.500	-0.76%	2.30%
			850	0.909	42.453	0.916	41.500	-0.76%	2.30%
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%
06/22/2021	1900 Head	21.7	1850	1.423	39.072	1.400	40.000	1.64%	-2.32%
			1860	1.427	39.057	1.400	40.000	1.93%	-2.36%
			1880	1.439	39.023	1.400	40.000	2.79%	-2.44%
			1900	1.451	38.990	1.400	40.000	3.64%	-2.52%
			1905	1.453	38.991	1.400	40.000	3.79%	-2.52%
			1910	1.457	38.985	1.400	40.000	4.07%	-2.54%
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
06/16/2021	2450 Head	22.5	2400	1.783	39.006	1.756	39.289	1.54%	-0.72%
			2450	1.840	38.860	1.800	39.200	2.22%	-0.87%
			2480	1.869	38.740	1.833	39.162	1.96%	-1.08%
			2500	1.894	38.658	1.855	39.136	2.10%	-1.22%
			2510	1.907	38.625	1.866	39.123	2.20%	-1.27%
			2535	1.935	38.553	1.893	39.092	2.22%	-1.38%
			2550	1.950	38.502	1.909	39.073	2.15%	-1.46%
			2560	1.960	38.460	1.920	39.060	2.08%	-1.54%
			2600	2.008	38.286	1.964	39.009	2.24%	-1.85%
			2650	2.061	38.128	2.018	38.945	2.13%	-2.10%
			2680	2.095	37.995	2.051	38.907	2.15%	-2.34%
			2700	2.119	37.911	2.073	38.882	2.22%	-2.50%
			2400	1.814	38.808	1.756	39.289	3.30%	-1.22%
			2450	1.872	38.634	1.800	39.200	4.00%	-1.44%
06/23/2021	2450 Head	22.3	2480	1.900	39.513	1.833	39.162	3.66%	-1.66%
			2500	1.922	38.429	1.855	39.136	3.61%	-1.81%
			2510	1.935	38.378	1.866	39.123	3.70%	-1.90%
			2535	1.961	38.315	1.893	39.092	3.59%	-1.99%
			2550	1.976	38.259	1.909	39.073	3.51%	-2.08%
			2560	1.988	38.217	1.920	39.060	3.54%	-2.16%
			2600	2.031	38.052	1.964	39.009	3.41%	-2.45%
			2650	2.086	37.895	2.018	38.945	3.37%	-2.70%
			2680	2.119	37.769	2.051	38.907	3.32%	-2.92%
			2700	2.142	37.694	2.073	38.882	3.33%	-3.06%
			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%
07/26/2021	2450 Head	22.5	2400	1.760	40.469	1.756	39.289	0.23%	3.00%
			2450	1.800	40.410	1.800	39.200	0.00%	3.09%
			2480	1.821	40.367	1.833	39.162	-0.65%	3.08%
			2500	1.837	40.333	1.855	39.136	-0.97%	3.06%
08/09/2021	2450 Head	22.3	5180	4.512	36.606	4.635	36.009	-2.65%	1.66%
			5190	4.527	36.596	4.645	35.998	-2.54%	1.66%
			5200	4.541	36.589	4.655	35.986	-2.45%	1.68%
			5210	4.551	36.580	4.666	35.975	-2.46%	1.68%
07/27/2021	5200-5800 Head	21.5	5220	4.558	36.559	4.676	35.963	-2.52%	1.66%
			5240	4.574	36.499	4.696	35.940	-2.60%	1.56%
			5250	4.586	36.459	4.706	35.929	-2.55%	1.48%
			5260	4.599	36.419	4.717	35.917	-2.50%	1.40%
			5270	4.610	36.397	4.727	35.906	-2.48%	1.37%
			5280	4.619	36.384	4.737	35.894	-2.49%	1.37%
			5290	4.631	36.372	4.748	35.883	-2.46%	1.36%
			5300	4.641	36.362	4.758	35.871	-2.46%	1.37%
			5310	4.652	36.333	4.768	35.860	-2.43%	1.32%
			5320	4.662	36.306	4.778	35.849	-2.43%	1.27%
			5500	4.879	35.997	4.963	35.643	-1.69%	0.99%
			5510	4.895	35.985	4.973	35.632	-1.57%	0.99%
			5520	4.909	35.970	4.983	35.620	-1.49%	0.98%
			5530	4.920	35.953	4.994	35.609	-1.48%	0.97%
			5540	4.930	35.943	5.004	35.597	-1.48%	0.97%
			5550	4.942	35.941	5.014	35.586	-1.44%	1.00%
			5560	4.954	35.936	5.024	35.574	-1.39%	1.02%
			5580	4.979	35.908	5.045	35.551	-1.31%	1.00%
			5600	5.005	35.886	5.065	35.529	-1.18%	1.00%
			5610	5.015	35.873	5.076	35.518	-1.20%	1.00%
			5620	5.026	35.856	5.086	35.506	-1.18%	0.99%
			5640	5.050	35.832	5.106	35.483	-1.10%	0.98%
			5660	5.072	35.813	5.127	35.460	-1.07%	1.00%
			5670	5.079	35.797	5.137	35.449	-1.13%	0.98%
			5680	5.089	35.779	5.147	35.437	-1.13%	0.97%
			5690	5.100	35.757	5.158	35.426	-1.12%	0.93%
			5700	5.109	35.728	5.168	35.414	-1.14%	0.89%
			5710	5.118	35.701	5.178	35.403	-1.16%	0.84%
			5720	5.128	35.685	5.188	35.391	-1.16%	0.83%
			5745	5.157	35.633	5.214	35.363	-1.09%	0.76%
			5750	5.162	35.617	5.219	35.357	-1.09%	0.74%
			5755	5.166	35.601	5.224	35.351	-1.11%	0.71%
			5765	5.179	35.582	5.234	35.340	-1.05%	0.68%
			5775	5.190	35.565	5.245	35.329	-1.05%	0.67%
			5785	5.203	35.534	5.255	35.317	-0.99%	0.61%
			5795	5.212	35.502	5.265	35.305	-1.01%	0.56%
			5800	5.217	35.491	5.270	35.300	-1.01%	0.54%
			5805	5.217	35.491	5.270	35.300	-1.01%	0.54%
			5805	5.224	35.480	5.275	35.294	-0.97%	0.53%
			5825	5.249	35.440	5.296	35.271	-0.89%	0.48%

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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
06/26/2021	750 Body	20.3	680	0.936	54.316	0.958	55.804	-2.30%	-2.67%
			695	0.940	54.295	0.959	55.745	-1.98%	-2.60%
			700	0.942	54.290	0.959	55.726	-1.77%	-2.58%
			710	0.945	54.279	0.960	55.687	-1.56%	-2.53%
			725	0.951	54.255	0.961	55.629	-1.04%	-2.47%
			750	0.962	54.202	0.964	55.531	-0.21%	-2.39%
			770	0.969	54.170	0.965	55.453	0.41%	-2.31%
			785	0.974	54.149	0.966	55.395	0.83%	-2.25%
			800	0.980	54.119	0.967	55.336	1.34%	-2.20%
06/30/2021	750 Body	21.4	680	0.962	53.110	0.958	55.804	0.42%	-4.83%
			695	0.967	53.071	0.959	55.745	0.83%	-4.80%
			700	0.969	53.059	0.959	55.726	1.04%	-4.79%
			710	0.972	53.034	0.960	55.687	1.25%	-4.76%
			725	0.977	52.989	0.961	55.629	1.66%	-4.75%
			750	0.987	52.924	0.964	55.531	2.39%	-4.69%
			770	0.994	52.891	0.965	55.453	3.01%	-4.62%
			785	0.999	52.862	0.966	55.395	3.42%	-4.57%
			800	1.004	52.827	0.967	55.336	3.83%	-4.53%
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%
08/09/2021	835 Body	20.0	815	0.947	53.316	0.968	55.271	-2.17%	-3.54%
			820	0.949	53.302	0.969	55.258	-2.06%	-3.54%
			835	0.955	53.263	0.970	55.200	-1.55%	-3.51%
			850	0.960	53.234	0.988	55.154	-2.83%	-3.48%
06/18/2021	1750 Body	22.0	1710	1.432	53.853	1.463	53.537	-2.12%	0.59%
			1720	1.438	53.850	1.469	53.511	-2.11%	0.63%
			1745	1.456	53.843	1.485	53.445	-1.95%	0.74%
			1750	1.459	53.842	1.488	53.432	-1.95%	0.77%
			1770	1.473	53.825	1.501	53.379	-1.87%	0.84%
06/28/2021	1750 Body	21.1	1790	1.488	53.798	1.514	53.326	-1.72%	0.89%
			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%
06/20/2021	1900 Body	22.8	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%
			1850	1.520	51.953	1.520	53.300	0.00%	-2.53%
			1860	1.531	51.909	1.520	53.300	0.72%	-2.61%
			1880	1.553	51.822	1.520	53.300	2.17%	-2.77%
06/28/2021	1900 Body	21.9	1900	1.575	51.748	1.520	53.300	3.62%	-2.91%
			1905	1.581	51.732	1.520	53.300	4.01%	-2.94%
			1910	1.586	51.717	1.520	53.300	4.34%	-2.97%
			1850	1.550	53.799	1.520	53.300	1.97%	0.94%
			1860	1.557	53.779	1.520	53.300	2.43%	0.90%
06/28/2021	1900 Body	21.9	1880	1.570	53.744	1.520	53.300	3.29%	0.83%
			1900	1.585	53.720	1.520	53.300	4.28%	0.79%
			1905	1.588	53.717	1.520	53.300	4.47%	0.78%
			1910	1.591	53.713	1.520	53.300	4.67%	0.77%

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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
07/19/2021	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%
07/27/2021	2450 Body	22.7	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%
			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%
08/09/2021	2450 Body	20.4	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%
			2400	1.911	51.596	1.902	52.767	0.47%	-2.22%
			2450	1.958	51.527	1.950	52.700	0.41%	-2.23%
08/15/2021	5200-5800 Body	21.5	2480	1.985	51.477	1.993	52.662	-0.40%	-2.25%
			2500	2.004	51.440	2.021	52.636	-0.84%	-2.27%
			5180	5.256	47.131	5.276	49.041	-0.38%	-3.89%
			5190	5.271	47.119	5.288	49.028	-0.32%	-3.89%
			5200	5.284	47.102	5.299	49.014	-0.28%	-3.90%
			5210	5.296	47.085	5.311	49.001	-0.28%	-3.91%
			5220	5.308	47.066	5.323	48.987	-0.28%	-3.92%
			5240	5.337	47.016	5.346	48.960	-0.17%	-3.97%
			5250	5.351	46.986	5.358	48.947	-0.13%	-4.01%
			5260	5.364	46.969	5.369	48.933	-0.09%	-4.01%
			5270	5.375	46.956	5.381	48.919	-0.11%	-4.01%
			5280	5.391	46.935	5.393	48.906	-0.04%	-4.03%
			5290	5.404	46.919	5.404	48.892	0.00%	-4.04%
			5300	5.416	46.906	5.416	48.879	0.00%	-4.04%
			5310	5.430	46.892	5.428	48.865	0.04%	-4.04%
			5320	5.444	46.864	5.439	48.851	0.09%	-4.07%
			5500	5.690	46.541	5.650	48.607	0.71%	-4.25%
			5510	5.703	46.521	5.661	48.594	0.74%	-4.27%
			5520	5.716	46.501	5.673	48.580	0.76%	-4.28%
			5530	5.732	46.483	5.685	48.566	0.83%	-4.29%
			5540	5.748	46.467	5.696	48.553	0.91%	-4.30%
			5550	5.761	46.453	5.708	48.539	0.93%	-4.30%
			5560	5.775	46.440	5.720	48.526	0.96%	-4.30%
			5580	5.805	46.389	5.743	48.499	1.08%	-4.35%
			5600	5.832	46.355	5.766	48.471	1.14%	-4.37%
			5610	5.844	46.340	5.778	48.458	1.14%	-4.37%
			5620	5.858	46.322	5.790	48.444	1.17%	-4.38%
			5640	5.886	46.286	5.813	48.417	1.26%	-4.40%
			5660	5.915	46.240	5.837	48.390	1.34%	-4.44%
			5670	5.926	46.221	5.848	48.376	1.33%	-4.45%
			5680	5.939	46.202	5.860	48.363	1.35%	-4.47%
			5690	5.955	46.178	5.872	48.349	1.41%	-4.49%
			5700	5.971	46.161	5.883	48.336	1.50%	-4.50%
			5710	5.985	46.146	5.895	48.322	1.53%	-4.50%
			5720	5.996	46.125	5.907	48.309	1.51%	-4.52%
			5745	6.027	46.076	5.936	48.275	1.53%	-4.56%
			5750	6.035	46.065	5.942	48.268	1.57%	-4.56%
			5755	6.043	46.054	5.947	48.261	1.61%	-4.57%
			5765	6.060	46.022	5.959	48.248	1.69%	-4.61%
			5775	6.075	46.000	5.971	48.234	1.74%	-4.63%
			5785	6.088	45.985	5.982	48.220	1.77%	-4.64%
			5795	6.100	45.971	5.994	48.207	1.77%	-4.64%
			5800	6.106	45.959	6.000	48.200	1.77%	-4.65%
			5805	6.116	45.951	6.006	48.193	1.83%	-4.65%
			5825	6.145	45.916	6.029	48.166	1.92%	-4.67%

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 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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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 SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
AM5	750	HEAD	06/22/2021	22.5	21.1	0.20	1097	3949	1.730	8.210	8.650	5.36%
AM3	750	HEAD	06/24/2021	23.4	20.5	0.20	1097	7421	1.730	8.210	8.650	5.36%
AM7	750	HEAD	08/12/2021	21.4	21.7	0.20	1097	7420	1.700	8.210	8.500	3.53%
AM8	835	HEAD	08/02/2021	22.9	22.1	0.20	4d040	7558	1.910	9.500	9.550	0.53%
AM4A	850	HEAD	06/27/2021	22.2	21.1	0.20	1010	7427	1.960	9.840	9.800	-0.41%
AM5	1750	HEAD	06/20/2021	21.7	21.5	0.10	1083	3949	3.880	36.100	38.800	7.48%
AM4B	1750	HEAD	07/20/2021	23.3	21.4	0.10	1083	7640	3.800	36.100	38.000	5.26%
AM4A	1900	HEAD	06/22/2021	22.9	21.6	0.10	5d181	7427	4.280	40.100	42.800	6.73%
AM10	1900	HEAD	07/21/2021	23.2	22.9	0.10	5d181	7639	4.010	40.100	40.100	0.00%
AM1	2450	HEAD	06/16/2021	20.7	21.3	0.10	750	3837	5.230	53.100	52.300	-1.51%
AM1	2450	HEAD	06/23/2021	21.8	20.6	0.10	750	3837	5.200	53.100	52.000	-2.07%
AM4B	2450	HEAD	07/26/2021	22.9	22.8	0.10	750	7640	4.990	53.100	49.900	-6.03%
AM8	2450	HEAD	08/09/2021	22.7	22.0	0.10	750	7558	5.130	53.100	51.300	-3.39%
AM1	2600	HEAD	06/16/2021	20.7	21.3	0.10	1042	3837	5.790	57.700	57.900	0.35%
AM1	2600	HEAD	06/23/2021	21.8	20.6	0.10	1042	3837	5.900	57.700	59.000	2.25%
AM8	5250	HEAD	07/27/2021	22.9	22.0	0.05	1123	7558	3.810	82.200	76.200	-7.30%
AM8	5600	HEAD	07/27/2021	22.9	22.0	0.05	1123	7558	4.140	84.500	82.800	-2.01%
AM8	5750	HEAD	07/27/2021	22.9	22.0	0.05	1123	7558	3.780	81.300	75.600	-7.01%

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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 SAR10g (W/kg)	1W Target SAR10g (W/kg)	1W Normalized SAR10g (W/kg)	Deviation10g (%)
AM6	750	BODY	06/26/2021	22.9	20.0	0.20	1097	7416	1.190	5.600	5.950	6.25%
AM6	750	BODY	06/30/2021	22.5	20.3	0.20	1097	7416	1.180	5.600	5.900	5.36%
AM6	750	BODY	08/09/2021	21.2	19.5	0.20	1057	7416	1.140	5.680	5.700	0.35%
AM10	835	BODY	08/09/2021	22.2	20.3	0.20	4d040	7639	1.230	6.240	6.150	-1.44%
AM10	1750	BODY	06/18/2021	21.7	20.5	0.10	1083	7639	1.890	19.700	18.900	-4.06%
AM10	1750	BODY	06/28/2021	21.3	19.5	0.10	1083	7639	1.900	19.700	19.000	-3.55%
AM4B	1900	BODY	06/20/2021	22.4	22.0	0.10	5d030	7640	2.180	21.100	21.800	3.32%
AM4B	1900	BODY	06/28/2021	22.7	21.4	0.10	5d030	7640	2.150	21.100	21.500	1.90%
AM2	2450	BODY	07/19/2021	21.5	20.8	0.10	750	7532	2.350	24.100	23.500	-2.49%
AM4B	2450	BODY	07/27/2021	22.7	22.5	0.10	750	7640	2.350	24.100	23.500	-2.49%
AM7	2450	BODY	08/09/2021	22.5	20.1	0.10	750	7420	2.390	24.100	23.900	-0.83%
AM2	2600	BODY	07/19/2021	21.5	20.8	0.10	1042	7532	2.620	24.900	26.200	5.22%
AM9	5250	BODY	08/15/2021	21.5	21.3	0.05	1123	7638	1.040	20.300	20.800	2.46%
AM9	5600	BODY	08/15/2021	21.5	21.3	0.05	1123	7638	1.090	21.200	21.800	2.83%
AM9	5750	BODY	08/15/2021	21.5	21.3	0.05	1123	7638	1.080	20.100	21.600	7.46%

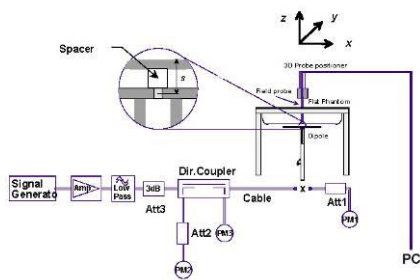


Figure 9-1
System Verification Setup Diagram



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 Data

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) (W/kg)	Plot #
MHz	Ch.												(W/kg)			
836.60	4183	UMTS 850	RMC	25.00	24.04	0.20	Front	10 mm	Aluminum	Sport	HR4GJGCXL5	1:1	0.000	1.247	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.15	Front	10 mm	Aluminum	Metal Links	HR4GJGCXL5	1:1	0.000	1.247	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.04	Front	10 mm	Aluminum	Metal Loop	HR4GJGCXL5	1:1	0.000	1.247	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.07	Front	10 mm	Stainless Steel	Sport	WKTYYN2J2V	1:1	0.000	1.247	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.10	Front	10 mm	Stainless Steel	Metal Links	WKTYYN2J2V	1:1	0.000	1.247	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.15	Front	10 mm	Stainless Steel	Metal Loop	WKTYYN2J2V	1:1	0.000	1.247	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.04	-0.04	Front	10 mm	Titanium	Sport	W2W1G60PWM	1:1	0.000	1.247	0.000	A1
836.60	4183	UMTS 850	RMC	25.00	24.04	0.05	Front	10 mm	Titanium	Metal Links	W2W1G60PWM	1:1	0.000	1.247	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.20	Front	10 mm	Titanium	Metal Loop	W2W1G60PWM	1:1	0.000	1.247	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 Data

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) (W/kg)	Plot #
MHz	Ch.												(W/kg)			
1732.40	1412	UMTS 1750	RMC	24.00	23.02	0.05	Front	10 mm	Aluminum	Sport	YYKFF2QRXV	1:1	0.152	1.253	0.190	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	0.08	Front	10 mm	Aluminum	Metal Links	YYKFF2QRXV	1:1	0.177	1.253	0.222	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	0.01	Front	10 mm	Aluminum	Metal Loop	YYKFF2QRXV	1:1	0.253	1.253	0.317	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.01	Front	10 mm	Stainless Steel	Sport	WKTYYN2J2V	1:1	0.083	1.253	0.104	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	0.01	Front	10 mm	Stainless Steel	Metal Links	WKTYYN2J2V	1:1	0.134	1.253	0.168	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	0.04	Front	10 mm	Stainless Steel	Metal Loop	WKTYYN2J2V	1:1	0.157	1.253	0.197	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	0.09	Front	10 mm	Titanium	Sport	W2W1G60PWM	1:1	0.136	1.253	0.170	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	0.01	Front	10 mm	Titanium	Metal Links	W2W1G60PWM	1:1	0.191	1.253	0.239	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.06	Front	10 mm	Titanium	Metal Loop	W2W1G60PWM	1:1	0.275	1.253	0.345	A2
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 Data

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) (W/kg)	Plot #
MHz	Ch.												(W/kg)			
1880.00	9400	UMTS 1900	RMC	24.00	23.11	-0.06	Front	10 mm	Aluminum	Sport	F6V95V9GW9	1:1	0.217	1.227	0.266	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	-0.03	Front	10 mm	Aluminum	Metal Links	F6V95V9GW9	1:1	0.316	1.227	0.388	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	-0.02	Front	10 mm	Aluminum	Metal Loop	F6V95V9GW9	1:1	0.419	1.227	0.514	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.02	Front	10 mm	Stainless Steel	Sport	QX0Q977KPJ	1:1	0.224	1.227	0.275	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	-0.11	Front	10 mm	Stainless Steel	Metal Links	QX0Q977KPJ	1:1	0.383	1.227	0.470	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	-0.03	Front	10 mm	Stainless Steel	Metal Loop	QX0Q977KPJ	1:1	0.451	1.227	0.553	A3
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.07	Front	10 mm	Titanium	Sport	DV2N0VWT3H	1:1	0.206	1.227	0.253	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	-0.01	Front	10 mm	Titanium	Metal Links	DV2N0VWT3H	1:1	0.313	1.227	0.384	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	-0.01	Front	10 mm	Titanium	Metal Loop	DV2N0VWT3H	1:1	0.403	1.227	0.494	
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 B12 Head SAR Data

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	24.38	-0.10	0	Front	10 mm	Aluminum	QPSK	1	25	HCVQM9TR29	1:1	0.000	1.294	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.49	-0.15	1	Front	10 mm	Aluminum	QPSK	25	12	HCVQM9TR29	1:1	0.000	1.262	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.38	0.10	0	Front	10 mm	Aluminum	QPSK	1	25	HCVQM9TR29	1:1	0.000	1.294	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.49	0.15	1	Front	10 mm	Aluminum	QPSK	25	12	HCVQM9TR29	1:1	0.000	1.262	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.38	0.00	0	Front	10 mm	Aluminum	QPSK	1	25	HCVQM9TR29	1:1	0.000	1.294	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.49	0.00	1	Front	10 mm	Aluminum	QPSK	25	12	HCVQM9TR29	1:1	0.000	1.262	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.38	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	25	WKTYN2J2V	1:1	0.000	1.294	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.49	0.02	1	Front	10 mm	Stainless Steel	QPSK	25	12	WKTYN2J2V	1:1	0.000	1.262	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.38	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	25	WKTYN2J2V	1:1	0.000	1.294	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.49	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	12	WKTYN2J2V	1:1	0.000	1.262	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.38	0.12	0	Front	10 mm	Stainless Steel	QPSK	1	25	WKTYN2J2V	1:1	0.000	1.294	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.49	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	12	WKTYN2J2V	1:1	0.000	1.262	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.38	0.06	0	Front	10 mm	Titanium	QPSK	1	25	NQ6G9XQ2FT	1:1	0.000	1.294	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.49	0.12	1	Front	10 mm	Titanium	QPSK	25	12	NQ6G9XQ2FT	1:1	0.000	1.262	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.38	-0.14	0	Front	10 mm	Titanium	QPSK	1	25	NQ6G9XQ2FT	1:1	0.000	1.294	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.49	-0.18	1	Front	10 mm	Titanium	QPSK	25	12	NQ6G9XQ2FT	1:1	0.000	1.262	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.38	0.18	0	Front	10 mm	Titanium	QPSK	1	25	NQ6G9XQ2FT	1:1	0.000	1.294	0.000	A4
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.49	0.00	1	Front	10 mm	Titanium	QPSK	25	12	NQ6G9XQ2FT	1:1	0.000	1.262	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 B13 Head SAR Data

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	24.62	0.19	0	Front	10 mm	Aluminum	QPSK	1	49	HR4GJGCXL5	1:1	0.000	1.225	0.000		
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.70	0.13	1	Front	10 mm	Aluminum	QPSK	25	0	HR4GJGCXL5	1:1	0.000	1.202	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.62	-0.20	0	Front	10 mm	Aluminum	QPSK	1	49	HR4GJGCXL5	1:1	0.001	1.225	0.001		A5
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.70	-0.10	1	Front	10 mm	Aluminum	QPSK	25	0	HR4GJGCXL5	1:1	0.000	1.202	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.62	0.12	0	Front	10 mm	Aluminum	QPSK	1	49	HR4GJGCXL5	1:1	0.000	1.225	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.70	0.19	1	Front	10 mm	Aluminum	QPSK	25	0	HR4GJGCXL5	1:1	0.000	1.202	0.000		
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.62	0.16	0	Front	10 mm	Stainless Steel	QPSK	1	49	RQW0WPY2PT	1:1	0.000	1.225	0.000		
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.70	0.20	1	Front	10 mm	Stainless Steel	QPSK	25	0	RQW0WPY2PT	1:1	0.000	1.202	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.62	0.02	0	Front	10 mm	Stainless Steel	QPSK	1	49	RQW0WPY2PT	1:1	0.000	1.225	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.70	-0.15	1	Front	10 mm	Stainless Steel	QPSK	25	0	RQW0WPY2PT	1:1	0.000	1.202	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.62	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	49	RQW0WPY2PT	1:1	0.000	1.225	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.70	0.00	1	Front	10 mm	Stainless Steel	QPSK	25	0	RQW0WPY2PT	1:1	0.000	1.202	0.000		
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.62	0.06	0	Front	10 mm	Titanium	QPSK	1	49	DV2N0VWT3H	1:1	0.000	1.225	0.000		
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.70	0.10	1	Front	10 mm	Titanium	QPSK	25	0	DV2N0VWT3H	1:1	0.000	1.202	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.62	0.00	0	Front	10 mm	Titanium	QPSK	1	49	DV2N0VWT3H	1:1	0.000	1.225	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.70	-0.20	1	Front	10 mm	Titanium	QPSK	25	0	DV2N0VWT3H	1:1	0.000	1.202	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.62	0.00	0	Front	10 mm	Titanium	QPSK	1	49	DV2N0VWT3H	1:1	0.000	1.225	0.000		
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.70	0.20	1	Front	10 mm	Titanium	QPSK	25	0	DV2N0VWT3H	1:1	0.000	1.202	0.000		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 10-6
LTE B14 Head SAR Data

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	24.69	0.15	0	Front	10 mm	Aluminum	QPSK	1	25	V9NKJWQ939	1:1	0.000	1.205	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.70	0.00	1	Front	10 mm	Aluminum	QPSK	25	12	V9NKJWQ939	1:1	0.000	1.202	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.69	0.15	0	Front	10 mm	Aluminum	QPSK	1	25	V9NKJWQ939	1:1	0.000	1.205	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.70	0.00	1	Front	10 mm	Aluminum	QPSK	25	12	V9NKJWQ939	1:1	0.000	1.202	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.69	-0.20	0	Front	10 mm	Aluminum	QPSK	1	25	V9NKJWQ939	1:1	0.000	1.205	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.70	0.00	1	Front	10 mm	Aluminum	QPSK	25	12	V9NKJWQ939	1:1	0.000	1.202	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.69	0.20	0	Front	10 mm	Stainless Steel	QPSK	1	25	GSW30MHJL	1:1	0.001	1.205	0.001	A6
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.70	-0.16	1	Front	10 mm	Stainless Steel	QPSK	25	12	GSW30MHJL	1:1	0.000	1.202	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.69	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	25	GSW30MHJL	1:1	0.000	1.205	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.70	0.13	1	Front	10 mm	Stainless Steel	QPSK	25	12	GSW30MHJL	1:1	0.000	1.202	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.69	-0.20	0	Front	10 mm	Stainless Steel	QPSK	1	25	GSW30MHJL	1:1	0.000	1.205	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.70	0.15	1	Front	10 mm	Stainless Steel	QPSK	25	12	GSW30MHJL	1:1	0.000	1.202	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.69	0.00	0	Front	10 mm	Titanium	QPSK	1	25	DV2N0VWT3H	1:1	0.000	1.205	0.000	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.70	0.00	1	Front	10 mm	Titanium	QPSK	25	12	DV2N0VWT3H	1:1	0.000	1.202	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.69	0.00	0	Front	10 mm	Titanium	QPSK	1	25	DV2N0VWT3H	1:1	0.000	1.205	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.70	0.00	1	Front	10 mm	Titanium	QPSK	25	12	DV2N0VWT3H	1:1	0.000	1.202	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.69	0.10	0	Front	10 mm	Titanium	QPSK	1	25	DV2N0VWT3H	1:1	0.000	1.205	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.70	0.05	1	Front	10 mm	Titanium	QPSK	25	12	DV2N0VWT3H	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 10-7
LTE B26 Head SAR Data

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)		
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.50	24.82	0.20	0	Front	10 mm	Aluminum	QPSK	1	49	NY6XGG474J	1:1	0.001	1.169	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.50	23.84	0.13	1	Front	10 mm	Aluminum	QPSK	25	25	NY6XGG474J	1:1	0.001	1.164	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.50	24.82	0.01	0	Front	10 mm	Aluminum	QPSK	1	49	NY6XGG474J	1:1	0.001	1.169	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.50	23.84	-0.12	1	Front	10 mm	Aluminum	QPSK	25	25	NY6XGG474J	1:1	0.001	1.164	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.82	0.20	0	Front	10 mm	Aluminum	QPSK	1	49	NY6XGG474J	1:1	0.001	1.169	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.84	-0.18	1	Front	10 mm	Aluminum	QPSK	25	25	NY6XGG474J	1:1	0.001	1.164	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.50	24.82	0.20	0	Front	10 mm	Stainless Steel	QPSK	1	49	WKTYYN2J2V	1:1	0.001	1.169	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.50	23.84	-0.13	1	Front	10 mm	Stainless Steel	QPSK	25	25	WKTYYN2J2V	1:1	0.001	1.164	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.50	24.82	-0.02	0	Front	10 mm	Stainless Steel	QPSK	1	49	WKTYYN2J2V	1:1	0.001	1.169	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.50	23.84	0.12	1	Front	10 mm	Stainless Steel	QPSK	25	25	WKTYYN2J2V	1:1	0.001	1.164	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.82	0.17	0	Front	10 mm	Stainless Steel	QPSK	1	49	WKTYYN2J2V	1:1	0.002	1.169	0.002	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.84	-0.12	1	Front	10 mm	Stainless Steel	QPSK	25	25	WKTYYN2J2V	1:1	0.001	1.164	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.50	24.82	-0.20	0	Front	10 mm	Titanium	QPSK	1	49	QFYQKQ3WQ	1:1	0.001	1.169	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.50	23.84	0.13	1	Front	10 mm	Titanium	QPSK	25	25	QFYQKQ3WQ	1:1	0.001	1.164	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.50	24.82	-0.05	0	Front	10 mm	Titanium	QPSK	1	49	QFYQKQ3WQ	1:1	0.001	1.169	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.50	23.84	-0.03	1	Front	10 mm	Titanium	QPSK	25	25	QFYQKQ3WQ	1:1	0.001	1.164	0.001	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.82	0.01	0	Front	10 mm	Titanium	QPSK	1	49	QFYQKQ3WQ	1:1	0.002	1.169	0.002	A7
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.84	0.18	1	Front	10 mm	Titanium	QPSK	25	25	QFYQKQ3WQ	1:1	0.001	1.164	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Table 10-8
LTE B5 Head SAR Data

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	24.61	-0.09	0	Front	10 mm	Aluminum	QPSK	1	49	F6V9SV9GW9	1:1	0.001	1.227	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.74	0.20	1	Front	10 mm	Aluminum	QPSK	25	25	F6V9SV9GW9	1:1	0.000	1.191	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.61	-0.10	0	Front	10 mm	Aluminum	QPSK	1	49	F6V9SV9GW9	1:1	0.000	1.227	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.74	0.10	1	Front	10 mm	Aluminum	QPSK	25	25	F6V9SV9GW9	1:1	0.000	1.191	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.61	-0.05	0	Front	10 mm	Aluminum	QPSK	1	49	F6V9SV9GW9	1:1	0.000	1.227	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.74	0.09	1	Front	10 mm	Aluminum	QPSK	25	25	F6V9SV9GW9	1:1	0.000	1.191	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.61	-0.20	0	Front	10 mm	Stainless Steel	QPSK	1	49	WKTYYN2J2V	1:1	0.001	1.227	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.74	0.20	1	Front	10 mm	Stainless Steel	QPSK	25	25	WKTYYN2J2V	1:1	0.001	1.191	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.61	-0.14	0	Front	10 mm	Stainless Steel	QPSK	1	49	WKTYYN2J2V	1:1	0.001	1.227	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.74	-0.15	1	Front	10 mm	Stainless Steel	QPSK	25	25	WKTYYN2J2V	1:1	0.001	1.191	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.61	0.12	0	Front	10 mm	Stainless Steel	QPSK	1	49	WKTYYN2J2V	1:1	0.001	1.227	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.74	-0.10	1	Front	10 mm	Stainless Steel	QPSK	25	25	WKTYYN2J2V	1:1	0.001	1.191	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.61	0.20	0	Front	10 mm	Titanium	QPSK	1	49	QFYQKQ3WQ	1:1	0.002	1.227	0.002	A8
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.74	-0.14	1	Front	10 mm	Titanium	QPSK	25	25	QFYQKQ3WQ	1:1	0.001	1.191	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.61	-0.05	0	Front	10 mm	Titanium	QPSK	1	49	QFYQKQ3WQ	1:1	0.001	1.227	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.74	-0.20	1	Front	10 mm	Titanium	QPSK	25	25	QFYQKQ3WQ	1:1	0.001	1.191	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.61	0.07	0	Front	10 mm	Titanium	QPSK	1	49	QFYQKQ3WQ	1:1	0.001	1.227	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.74	0.10	1	Front	10 mm	Titanium	QPSK	25	25	QFYQKQ3WQ	1:1	0.001	1.191	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-9
LTE B66 Head SAR Data

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	23.20	-0.20	0	Front	10 mm	Aluminum	QPSK	1	99	V9NKJWQ939	1:1	0.149	1.349	0.201	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.45	-0.05	1	Front	10 mm	Aluminum	QPSK	50	50	V9NKJWQ939	1:1	0.127	1.274	0.162	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.20	-0.01	0	Front	10 mm	Aluminum	QPSK	1	99	V9NKJWQ939	1:1	0.215	1.349	0.290	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.45	-0.01	1	Front	10 mm	Aluminum	QPSK	50	50	V9NKJWQ939	1:1	0.187	1.274	0.238	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.20	0.07	0	Front	10 mm	Aluminum	QPSK	1	99	V9NKJWQ939	1:1	0.299	1.349	0.403	A9
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.45	0.16	1	Front	10 mm	Aluminum	QPSK	50	50	V9NKJWQ939	1:1	0.255	1.274	0.325	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.20	-0.20	0	Front	10 mm	Stainless Steel	QPSK	1	99	G5W30M4HJL	1:1	0.117	1.349	0.158	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.45	-0.19	1	Front	10 mm	Stainless Steel	QPSK	50	50	G5W30M4HJL	1:1	0.096	1.274	0.122	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.20	-0.15	0	Front	10 mm	Stainless Steel	QPSK	1	99	G5W30M4HJL	1:1	0.187	1.349	0.252	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.45	0.00	1	Front	10 mm	Stainless Steel	QPSK	50	50	G5W30M4HJL	1:1	0.167	1.274	0.213	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.20	0.04	0	Front	10 mm	Stainless Steel	QPSK	1	99	G5W30M4HJL	1:1	0.233	1.349	0.314	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.45	0.00	1	Front	10 mm	Stainless Steel	QPSK	50	50	G5W30M4HJL	1:1	0.209	1.274	0.266	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.20	-0.07	0	Front	10 mm	Titanium	QPSK	1	99	HJ123566VW	1:1	0.149	1.349	0.201	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.45	-0.04	1	Front	10 mm	Titanium	QPSK	50	50	HJ123566VW	1:1	0.129	1.274	0.164	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.20	0.00	0	Front	10 mm	Titanium	QPSK	1	99	HJ123566VW	1:1	0.227	1.349	0.306	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.45	0.00	1	Front	10 mm	Titanium	QPSK	50	50	HJ123566VW	1:1	0.193	1.274	0.246	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.20	-0.16	0	Front	10 mm	Titanium	QPSK	1	99	HJ123566VW	1:1	0.279	1.349	0.376	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.45	0.08	1	Front	10 mm	Titanium	QPSK	50	50	HJ123566VW	1:1	0.233	1.274	0.297	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Head											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-10
LTE B25 Head SAR Data

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)		
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	24.50	23.24	-0.08	0	Front	10 mm	Aluminum	QPSK	1	99	F6V95V9GW9	1:1	0.228	1.337	0.305	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	23.50	22.37	-0.13	1	Front	10 mm	Aluminum	QPSK	50	50	F6V95V9GW9	1:1	0.183	1.297	0.237	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	24.50	23.24	0.16	0	Front	10 mm	Aluminum	QPSK	1	99	F6V95V9GW9	1:1	0.256	1.337	0.342	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	23.50	22.37	0.00	1	Front	10 mm	Aluminum	QPSK	50	50	F6V95V9GW9	1:1	0.213	1.297	0.276	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.24	0.05	0	Front	10 mm	Aluminum	QPSK	1	99	F6V95V9GW9	1:1	0.381	1.337	0.509	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.37	0.01	1	Front	10 mm	Aluminum	QPSK	50	50	F6V95V9GW9	1:1	0.307	1.297	0.398	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	24.50	23.24	-0.21	0	Front	10 mm	Stainless Steel	QPSK	1	99	RQW0WPY2PT	1:1	0.248	1.337	0.332	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	23.50	22.37	-0.15	1	Front	10mm	Stainless Steel	QPSK	50	50	RQW0WPY2PT	1:1	0.201	1.297	0.261	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	24.50	23.24	-0.04	0	Front	10 mm	Stainless Steel	QPSK	1	99	RQW0WPY2PT	1:1	0.313	1.337	0.418	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	23.50	22.37	-0.02	1	Front	10 mm	Stainless Steel	QPSK	50	50	RQW0WPY2PT	1:1	0.253	1.297	0.328	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.24	0.07	0	Front	10 mm	Stainless Steel	QPSK	1	99	RQW0WPY2PT	1:1	0.444	1.337	0.594	A10
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.37	-0.07	1	Front	10 mm	Stainless Steel	QPSK	50	50	RQW0WPY2PT	1:1	0.377	1.297	0.489	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	24.50	23.24	-0.20	0	Front	10 mm	Titanium	QPSK	1	99	W2W1G60PWM	1:1	0.213	1.337	0.285	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	23.50	22.37	-0.06	1	Front	10 mm	Titanium	QPSK	50	50	W2W1G60PWM	1:1	0.172	1.297	0.223	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	24.50	23.24	0.05	0	Front	10 mm	Titanium	QPSK	1	99	W2W1G60PWM	1:1	0.345	1.337	0.461	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	23.50	22.37	-0.02	1	Front	10 mm	Titanium	QPSK	50	50	W2W1G60PWM	1:1	0.283	1.297	0.367	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.24	0.01	0	Front	10 mm	Titanium	QPSK	1	99	W2W1G60PWM	1:1	0.374	1.337	0.500	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.37	0.03	1	Front	10 mm	Titanium	QPSK	50	50	W2W1G60PWM	1:1	0.310	1.297	0.402	
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 10-11
LTE B7 Head SAR Data

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	22.30	-0.03	0	Front	10 mm	Aluminum	QPSK	1	99	F6V95V9GW9	1:1	0.731	1.318	0.963	A11
2535.00	21100	Mid	LTE Band 7	20	Sport	23.50	22.21	0.01	0	Front	10 mm	Aluminum	QPSK	1	0	F6V95V9GW9	1:1	0.609	1.346	0.820	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	22.40	-0.02	0	Front	10 mm	Aluminum	QPSK	1	99	F6V95V9GW9	1:1	0.527	1.288	0.679	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.39	-0.02	1	Front	10 mm	Aluminum	QPSK	50	50	F6V95V9GW9	1:1	0.431	1.291	0.556	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.38	0.02	1	Front	10 mm	Aluminum	QPSK	100	0	F6V95V9GW9	1:1	0.452	1.294	0.585	
2560.00	21350	High	LTE Band 7	20	Metal Links	23.50	22.40	0.03	0	Right	10 mm	Aluminum	QPSK	1	99	F6V95V9GW9	1:1	0.357	1.288	0.460	
2560.00	21350	High	LTE Band 7	20	Metal Links	22.50	21.39	-0.01	1	Front	10 mm	Aluminum	QPSK	50	50	F6V95V9GW9	1:1	0.309	1.291	0.399	
2560.00	21350	High	LTE Band 7	20	Metal Loop	23.50	22.40	-0.08	0	Front	10 mm	Aluminum	QPSK	1	99	F6V95V9GW9	1:1	0.420	1.288	0.541	
2560.00	21350	High	LTE Band 7	20	Metal Loop	22.50	21.39	-0.01	1	Front	10 mm	Aluminum	QPSK	50	50	F6V95V9GW9	1:1	0.329	1.291	0.425	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	22.40	-0.02	0	Front	10 mm	Stainless Steel	QPSK	1	99	JQCLGYY357	1:1	0.479	1.288	0.617	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.39	0.01	1	Front	10 mm	Stainless Steel	QPSK	50	50	JQCLGYY357	1:1	0.382	1.291	0.493	
2560.00	21350	High	LTE Band 7	20	Metal Links	23.50	22.40	-0.05	0	Front	10 mm	Stainless Steel	QPSK	1	99	JQCLGYY357	1:1	0.359	1.288	0.462	
2560.00	21350	High	LTE Band 7	20	Metal Links	22.50	21.39	-0.05	1	Front	10 mm	Stainless Steel	QPSK	50	50	JQCLGYY357	1:1	0.275	1.291	0.355	
2560.00	21350	High	LTE Band 7	20	Metal Loop	23.50	22.40	-0.03	0	Front	10 mm	Stainless Steel	QPSK	1	99	JQCLGYY357	1:1	0.408	1.288	0.526	
2560.00	21350	High	LTE Band 7	20	Metal Loop	22.50	21.39	-0.06	1	Front	10 mm	Stainless Steel	QPSK	50	50	JQCLGYY357	1:1	0.315	1.291	0.407	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	22.40	-0.07	0	Front	10 mm	Titanium	QPSK	1	99	NQ6G9XQ2FT	1:1	0.457	1.288	0.589	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.39	-0.02	1	Front	10 mm	Titanium	QPSK	50	50	NQ6G9XQ2FT	1:1	0.362	1.291	0.467	
2560.00	21350	High	LTE Band 7	20	Metal Links	23.50	22.40	-0.02	0	Front	10 mm	Titanium	QPSK	1	99	NQ6G9XQ2FT	1:1	0.390	1.288	0.502	
2560.00	21350	High	LTE Band 7	20	Metal Links	22.50	21.39	-0.03	1	Front	10 mm	Titanium	QPSK	50	50	NQ6G9XQ2FT	1:1	0.296	1.291	0.382	
2560.00	21350	High	LTE Band 7	20	Metal Loop	23.50	22.40	0.03	0	Front	10 mm	Titanium	QPSK	1	99	NQ6G9XQ2FT	1:1	0.408	1.288	0.526	
2560.00	21350	High	LTE Band 7	20	Metal Loop	22.50	21.39	0.02	1	Front	10 mm	Titanium	QPSK	50	50	NQ6G9XQ2FT	1:1	0.316	1.291	0.408	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 10-12
LTE B41 Head SAR Data

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)		
2593.00	40620	Mid	LTE Band 41	20	Sport	23.50	22.68	-0.08	0	Front	10 mm	Aluminum	QPSK	1	50	V9NKJWQ939	1:1.58	0.322	1.208	0.389	
2593.00	40620	Mid	LTE Band 41	20	Sport	22.50	21.61	-0.07	1	Front	10 mm	Aluminum	QPSK	50	25	V9NKJWQ939	1:1.58	0.246	1.227	0.302	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.50	22.68	-0.03	0	Front	10 mm	Aluminum	QPSK	1	50	V9NKJWQ939	1:1.58	0.279	1.208	0.337	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.50	21.61	-0.02	1	Front	10 mm	Aluminum	QPSK	50	25	V9NKJWQ939	1:1.58	0.220	1.227	0.270	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.50	22.68	-0.02	0	Front	10 mm	Aluminum	QPSK	1	50	V9NKJWQ939	1:1.58	0.216	1.208	0.261	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.50	21.61	-0.06	1	Front	10 mm	Aluminum	QPSK	50	25	V9NKJWQ939	1:1.58	0.171	1.227	0.210	
2593.00	40620	Mid	LTE Band 41	20	Sport	23.50	22.68	-0.05	0	Front	10 mm	Stainless Steel	QPSK	1	50	JQCLGYY357	1:1.58	0.275	1.208	0.332	
2593.00	40620	Mid	LTE Band 41	20	Sport	22.50	21.61	-0.11	1	Front	10 mm	Stainless Steel	QPSK	50	25	JQCLGYY357	1:1.58	0.214	1.227	0.263	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.50	22.68	-0.06	0	Front	10 mm	Stainless Steel	QPSK	1	50	JQCLGYY357	1:1.58	0.259	1.208	0.313	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.50	21.61	-0.02	1	Front	10 mm	Stainless Steel	QPSK	50	25	JQCLGYY357	1:1.58	0.200	1.227	0.245	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.50	22.68	-0.04	0	Front	10 mm	Stainless Steel	QPSK	1	50	JQCLGYY357	1:1.58	0.213	1.208	0.257	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.50	21.61	-0.05	1	Front	10 mm	Stainless Steel	QPSK	50	25	JQCLGYY357	1:1.58	0.165	1.227	0.202	
2593.00	40620	Mid	LTE Band 41	20	Sport	23.50	22.68	-0.05	0	Front	10 mm	Titanium	QPSK	1	50	HJ123566VW	1:1.58	0.339	1.208	0.410	A12
2593.00	40620	Mid	LTE Band 41	20	Sport	22.50	21.61	-0.03	1	Front	10 mm	Titanium	QPSK	50	25	HJ123566VW	1:1.58	0.263	1.227	0.323	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.50	22.68	-0.04	0	Front	10 mm	Titanium	QPSK	1	50	HJ123566VW	1:1.58	0.268	1.208	0.324	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.50	21.61	-0.04	1	Front	10 mm	Titanium	QPSK	50	25	HJ123566VW	1:1.58	0.210	1.227	0.258	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.50	22.68	-0.02	0	Front	10 mm	Titanium	QPSK	1	50	HJ123566VW	1:1.58	0.266	1.208	0.321	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.50	21.61	-0.04	1	Front	10 mm	Titanium	QPSK	50	25	HJ123566VW	1:1.58	0.210	1.227	0.258	
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 10-13
2.4GHz WLAN Head SAR Data

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	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	17.80	0.00	Front	10 mm	Aluminum	Sport	NY6XGG474J	1	99.7	0.360	1.318	1.003	0.476	A13
2462	11	802.11b	DSSS	22	19.00	17.80	0.03	Front	10 mm	Aluminum	Metal Links	NY6XGG474J	1	99.7	0.205	1.318	1.003	0.271	
2462	11	802.11b	DSSS	22	19.00	17.80	0.12	Front	10 mm	Aluminum	Metal Loop	NY6XGG474J	1	99.7	0.189	1.318	1.003	0.250	
2462	11	802.11b	DSSS	22	19.00	17.80	-0.03	Front	10 mm	Stainless Steel	Sport	HGJ22KQ2R2	1	99.7	0.246	1.318	1.003	0.325	
2462	11	802.11b	DSSS	22	19.00	17.80	-0.06	Front	10 mm	Stainless Steel	Metal Links	HGJ22KQ2R2	1	99.7	0.160	1.318	1.003	0.212	
2462	11	802.11b	DSSS	22	19.00	17.80	-0.02	Front	10 mm	Stainless Steel	Metal Loop	HGJ22KQ2R2	1	99.7	0.173	1.318	1.003	0.229	
2462	11	802.11b	DSSS	22	19.00	17.80	-0.03	Front	10 mm	Titanium	Sport	NQ6G9XQ2FT	1	99.7	0.272	1.318	1.003	0.360	
2462	11	802.11b	DSSS	22	19.00	17.80	-0.07	Front	10 mm	Titanium	Metal Links	NQ6G9XQ2FT	1	99.7	0.199	1.318	1.003	0.263	
2462	11	802.11b	DSSS	22	19.00	17.80	0.03	Front	10 mm	Titanium	Metal Loop	NQ6G9XQ2FT	1	99.7	0.128	1.318	1.003	0.169	
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 10-14
5GHz WLAN Head SAR Data

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	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	16.08	0.21	Front	10 mm	Aluminum	Sport	LCF42X76Q4	6	97.5	0.068	1.236	1.026	0.086	
5300	60	802.11a	OFDM	20	17.00	16.08	-0.04	Front	10 mm	Aluminum	Metal Links	LCF42X76Q4	6	97.5	0.067	1.236	1.026	0.085	
5300	60	802.11a	OFDM	20	17.00	16.08	0.18	Front	10 mm	Aluminum	Metal Loop	LCF42X76Q4	6	97.5	0.068	1.236	1.026	0.086	
5300	60	802.11a	OFDM	20	17.00	16.08	0.21	Front	10 mm	Stainless Steel	Sport	JQCLGYY357	6	97.5	0.043	1.236	1.026	0.055	
5300	60	802.11a	OFDM	20	17.00	16.08	-0.20	Front	10 mm	Stainless Steel	Metal Links	JQCLGYY357	6	97.5	0.049	1.236	1.026	0.062	
5300	60	802.11a	OFDM	20	17.00	16.08	-0.10	Front	10 mm	Stainless Steel	Metal Loop	JQCLGYY357	6	97.5	0.045	1.236	1.026	0.057	
5300	60	802.11a	OFDM	20	17.00	16.08	0.06	Front	10 mm	Titanuim	Sport	RLF77M4C19	6	97.5	0.079	1.236	1.026	0.100	
5300	60	802.11a	OFDM	20	17.00	16.08	0.20	Front	10 mm	Titanuim	Metal Links	RLF77M4C19	6	97.5	0.068	1.236	1.026	0.086	
5300	60	802.11a	OFDM	20	17.00	16.08	0.15	Front	10 mm	Titanuim	Metal Loop	RLF77M4C19	6	97.5	0.068	1.236	1.026	0.086	
5600	120	802.11a	OFDM	20	17.00	16.20	0.21	Front	10 mm	Aluminum	Sport	LCF42X76Q4	6	97.5	0.113	1.202	1.026	0.139	
5600	120	802.11a	OFDM	20	17.00	16.20	0.09	Front	10 mm	Aluminum	Metal Links	LCF42X76Q4	6	97.5	0.095	1.202	1.026	0.117	
5600	120	802.11a	OFDM	20	17.00	16.20	-0.03	Front	10 mm	Aluminum	Metal Loop	LCF42X76Q4	6	97.5	0.093	1.202	1.026	0.115	
5600	120	802.11a	OFDM	20	17.00	16.20	0.14	Front	10 mm	Stainless Steel	Sport	HGJ22K2Q2R2	6	97.5	0.078	1.202	1.026	0.096	
5600	120	802.11a	OFDM	20	17.00	16.20	-0.10	Front	10 mm	Stainless Steel	Metal Links	HGJ22K2Q2R2	6	97.5	0.075	1.202	1.026	0.092	
5600	120	802.11a	OFDM	20	17.00	16.20	0.10	Front	10 mm	Stainless Steel	Metal Loop	HGJ22K2Q2R2	6	97.5	0.105	1.202	1.026	0.129	
5600	120	802.11a	OFDM	20	17.00	16.20	0.20	Front	10 mm	Titanuim	Sport	HJ123566VW	6	97.5	0.086	1.202	1.026	0.106	
5600	120	802.11a	OFDM	20	17.00	16.20	0.19	Front	10 mm	Titanuim	Metal Links	HJ123566VW	6	97.5	0.106	1.202	1.026	0.131	
5600	120	802.11a	OFDM	20	17.00	16.20	0.19	Front	10 mm	Titanuim	Metal Loop	HJ123566VW	6	97.5	0.077	1.202	1.026	0.095	
5785	157	802.11a	OFDM	20	17.00	16.18	0.06	Front	10 mm	Aluminum	Sport	V9NKJWQ939	6	97.5	0.071	1.208	1.026	0.088	
5785	157	802.11a	OFDM	20	17.00	16.18	0.20	Front	10 mm	Aluminum	Metal Links	V9NKJWQ939	6	97.5	0.072	1.208	1.026	0.089	
5785	157	802.11a	OFDM	20	17.00	16.18	-0.20	Front	10 mm	Aluminum	Metal Loop	V9NKJWQ939	6	97.5	0.075	1.208	1.026	0.093	
5785	157	802.11a	OFDM	20	17.00	16.18	-0.14	Front	10 mm	Stainless Steel	Sport	HGJ22K2Q2R2	6	97.5	0.111	1.208	1.026	0.138	
5785	157	802.11a	OFDM	20	17.00	16.18	0.08	Front	10 mm	Stainless Steel	Metal Links	HGJ22K2Q2R2	6	97.5	0.111	1.208	1.026	0.138	
5785	157	802.11a	OFDM	20	17.00	16.18	0.20	Front	10 mm	Stainless Steel	Metal Loop	HGJ22K2Q2R2	6	97.5	0.119	1.208	1.026	0.147	A14
5785	157	802.11a	OFDM	20	17.00	16.18	-0.11	Front	10 mm	Titanuim	Sport	RLF77M4C19	6	97.5	0.079	1.208	1.026	0.098	
5785	157	802.11a	OFDM	20	17.00	16.18	0.20	Front	10 mm	Titanuim	Metal Links	RLF77M4C19	6	97.5	0.088	1.208	1.026	0.109	
5785	157	802.11a	OFDM	20	17.00	16.18	0.11	Front	10 mm	Titanuim	Metal Loop	RLF77M4C19	6	97.5	0.086	1.208	1.026	0.107	
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 10-15
Bluetooth WLAN Head SAR Data

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	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)	
2402.00	0	Bluetooth	FHSS	13.00	12.19	0.07	Front	10 mm	Aluminum	Sport	HR4GJGCXL5	1	100	0.123	1.205	1.000	0.148	
2402.00	0	Bluetooth	FHSS	13.00	12.19	0.05	Front	10 mm	Aluminum	Metal Links	HR4GJGCXL5	1	100	0.096	1.205	1.000	0.116	
2402.00	0	Bluetooth	FHSS	13.00	12.19	0.02	Front	10 mm	Aluminum	Metal Loop	HR4GJGCXL5	1	100	0.112	1.205	1.000	0.135	
2402.00	0	Bluetooth	FHSS	13.00	12.19	0.09	Front	10 mm	Stainless Steel	Sport	WKTYYN2J2V	1	100	0.086	1.205	1.000	0.104	
2402.00	0	Bluetooth	FHSS	13.00	12.19	0.07	Front	10 mm	Stainless Steel	Metal Links	WKTYYN2J2V	1	100	0.074	1.205	1.000	0.089	
2402.00	0	Bluetooth	FHSS	13.00	12.19	0.04	Front	10 mm	Stainless Steel	Metal Loop	WKTYYN2J2V	1	100	0.082	1.205	1.000	0.099	
2402.00	0	Bluetooth	FHSS	13.00	12.19	-0.07	Front	10 mm	Titanium	Sport	WRP9DNV4LW	1	100	0.126	1.205	1.000	0.152	A15
2402.00	0	Bluetooth	FHSS	13.00	12.19	-0.01	Front	10 mm	Titanium	Metal Links	WRP9DNV4LW	1	100	0.088	1.205	1.000	0.106	
2402.00	0	Bluetooth	FHSS	13.00	12.19	0.00	Front	10 mm	Titanium	Metal Loop	WRP9DNV4LW	1	100	0.102	1.205	1.000	0.123	
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 Data

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	24.04	0.20	0 mm	Aluminum	Sport	LCF42X76Q4	1:1	back	1.247	0.055	0.069	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.06	0 mm	Aluminum	Metal Links	LCF42X76Q4	1:1	back	1.247	0.093	0.116	
836.60	4183	UMTS 850	RMC	25.00	24.04	-0.18	0 mm	Aluminum	Metal Loop	LCF42X76Q4	1:1	back	1.247	0.072	0.090	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.20	0 mm	Stainless Steel	Sport	QX0Q977KPJ	1:1	back	1.247	0.058	0.072	
836.60	4183	UMTS 850	RMC	25.00	24.04	0.07	0 mm	Stainless Steel	Metal Links	QX0Q977KPJ	1:1	back	1.247	0.112	0.140	
836.60	4183	UMTS 850	RMC	25.00	24.04	-0.08	0 mm	Stainless Steel	Metal Loop	QX0Q977KPJ	1:1	back	1.247	0.093	0.116	
836.60	4183	UMTS 850	RMC	25.00	24.04	-0.05	0 mm	Titanium	Sport	FTQPFH92P7	1:1	back	1.247	0.060	0.075	
836.60	4183	UMTS 850	RMC	25.00	24.04	-0.06	0 mm	Titanium	Metal Links	FTQPFH92P7	1:1	back	1.247	0.161	0.201	A16
836.60	4183	UMTS 850	RMC	25.00	24.04	0.17	0 mm	Titanium	Metal Loop	FTQPFH92P7	1:1	back	1.247	0.075	0.094	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 10 gram									

Table 10-17
UMTS 1750 Extremity SAR Data

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	23.02	0.20	0 mm	Aluminum	Sport	HCVQM9TR29	1:1	back	1.253	0.024	0.030	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	0.00	0 mm	Aluminum	Metal Links	HCVQM9TR29	1:1	back	1.253	0.048	0.060	A17
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.20	0 mm	Aluminum	Metal Loop	HCVQM9TR29	1:1	back	1.253	0.025	0.031	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.21	0 mm	Stainless Steel	Sport	N61M7257LL	1:1	back	1.253	0.022	0.028	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.05	0 mm	Stainless Steel	Metal Links	N61M7257LL	1:1	back	1.253	0.032	0.040	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.20	0 mm	Stainless Steel	Metal Loop	N61M7257LL	1:1	back	1.253	0.018	0.023	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.17	0 mm	Titanium	Sport	DV2N0VWT3H	1:1	back	1.253	0.018	0.023	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.15	0 mm	Titanium	Metal Links	DV2N0VWT3H	1:1	back	1.253	0.031	0.039	
1732.40	1412	UMTS 1750	RMC	24.00	23.02	-0.05	0 mm	Titanium	Metal Loop	DV2N0VWT3H	1:1	back	1.253	0.031	0.039	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 10 gram									

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Table 10-18
UMTS 1900 Extremity SAR Data

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	23.11	0.16	0 mm	Aluminum	Sport	HR4GJGCXL5	1:1	back	1.227	0.028	0.034	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.18	0 mm	Aluminum	Metal Links	HR4GJGCXL5	1:1	back	1.227	0.013	0.016	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.20	0 mm	Aluminum	Metal Loop	HR4GJGCXL5	1:1	back	1.227	0.044	0.054	A18
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.18	0 mm	Stainless Steel	Sport	QX0Q977KPJ	1:1	back	1.227	0.026	0.032	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.15	0 mm	Stainless Steel	Metal Links	QX0Q977KPJ	1:1	back	1.227	0.014	0.017	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.20	0 mm	Stainless Steel	Metal Loop	QX0Q977KPJ	1:1	back	1.227	0.032	0.039	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.20	0 mm	Titanium	Sport	NQ6G9XQ2FT	1:1	back	1.227	0.026	0.032	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.19	0 mm	Titanium	Metal Links	NQ6G9XQ2FT	1:1	back	1.227	0.014	0.017	
1880.00	9400	UMTS 1900	RMC	24.00	23.11	0.14	0 mm	Titanium	Metal Loop	NQ6G9XQ2FT	1:1	back	1.227	0.003	0.004	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Extremity									
Spatial Peak							4.0 W/kg (mW/g)									
Uncontrolled Exposure/General Population							averaged over 10 gram									

Table 10-19
LTE B12 Extremity SAR Data

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)		
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.38	-0.12	0	Aluminum	YYKF2QRXV	QPSK	1	25	0 mm	back	1:1	1.294	0.084	0.109	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.49	0.05	1	Aluminum	YYKF2QRXV	QPSK	25	12	0 mm	back	1:1	1.262	0.062	0.078	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.38	0.02	0	Aluminum	YYKF2QRXV	QPSK	1	25	0 mm	back	1:1	1.294	0.098	0.127	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.49	0.07	1	Aluminum	YYKF2QRXV	QPSK	25	12	0 mm	back	1:1	1.262	0.070	0.088	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.38	0.05	0	Aluminum	YYKF2QRXV	QPSK	1	25	0 mm	back	1:1	1.294	0.110	0.142	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.49	-0.01	1	Aluminum	YYKF2QRXV	QPSK	25	12	0 mm	back	1:1	1.262	0.084	0.106	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.38	-0.20	0	Stainless Steel	QX0Q977KPJ	QPSK	1	25	0 mm	back	1:1	1.294	0.080	0.104	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.49	-0.15	1	Stainless Steel	QX0Q977KPJ	QPSK	25	12	0 mm	back	1:1	1.262	0.060	0.076	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.38	0.20	0	Stainless Steel	QX0Q977KPJ	QPSK	1	25	0 mm	back	1:1	1.294	0.105	0.136	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.49	0.08	1	Stainless Steel	QX0Q977KPJ	QPSK	25	12	0 mm	back	1:1	1.262	0.081	0.102	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.38	0.15	0	Stainless Steel	QX0Q977KPJ	QPSK	1	25	0 mm	back	1:1	1.294	0.100	0.129	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.49	0.03	1	Stainless Steel	QX0Q977KPJ	QPSK	25	12	0 mm	back	1:1	1.262	0.076	0.096	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.38	-0.09	0	Titanium	FTQPFH92P7	QPSK	1	25	0 mm	back	1:1	1.294	0.070	0.091	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.49	-0.05	1	Titanium	FTQPFH92P7	QPSK	25	12	0 mm	back	1:1	1.262	0.055	0.069	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.38	0.11	0	Titanium	FTQPFH92P7	QPSK	1	25	0 mm	back	1:1	1.294	0.135	0.175	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.49	0.02	1	Titanium	FTQPFH92P7	QPSK	25	12	0 mm	back	1:1	1.262	0.103	0.130	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.38	-0.02	0	Titanium	FTQPFH92P7	QPSK	1	25	0 mm	back	1:1	1.294	0.142	0.184	A19
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.49	-0.03	1	Titanium	FTQPFH92P7	QPSK	25	12	0 mm	back	1:1	1.262	0.108	0.136	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak									Extremity												
Uncontrolled Exposure/General Population									4.0 W/kg (mW/g)												
									averaged over 10 gram												

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Table 10-20
LTE B13 Extremity SAR Data

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	24.62	-0.03	0	Aluminum	NY6XGG474J	QPSK	1	49	0 mm	back	1:1	1.225	0.092	0.113	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.70	-0.01	1	Aluminum	NY6XGG474J	QPSK	25	0	0 mm	back	1:1	1.202	0.069	0.083	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.62	-0.13	0	Aluminum	NY6XGG474J	QPSK	1	49	0 mm	back	1:1	1.225	0.132	0.162	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.70	0.05	1	Aluminum	NY6XGG474J	QPSK	25	0	0 mm	back	1:1	1.202	0.105	0.126	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.62	-0.03	0	Aluminum	NY6XGG474J	QPSK	1	49	0 mm	back	1:1	1.225	0.125	0.153	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.70	-0.05	1	Aluminum	NY6XGG474J	QPSK	25	0	0 mm	back	1:1	1.202	0.102	0.123	
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.62	-0.04	0	Stainless Steel	RQWOWPY2PT	QPSK	1	49	0 mm	back	1:1	1.225	0.106	0.130	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.70	-0.10	1	Stainless Steel	RQWOWPY2PT	QPSK	25	0	0 mm	back	1:1	1.202	0.082	0.099	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.62	-0.05	0	Stainless Steel	RQWOWPY2PT	QPSK	1	49	0 mm	back	1:1	1.225	0.181	0.222	A20
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.70	0.02	1	Stainless Steel	RQWOWPY2PT	QPSK	25	0	0 mm	back	1:1	1.202	0.119	0.143	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.62	0.01	0	Stainless Steel	RQWOWPY2PT	QPSK	1	49	0 mm	back	1:1	1.225	0.139	0.170	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.70	0.20	1	Stainless Steel	RQWOWPY2PT	QPSK	25	0	0 mm	back	1:1	1.202	0.105	0.126	
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.62	-0.05	0	Titanium	W2W1G60PWM	QPSK	1	49	0 mm	back	1:1	1.225	0.104	0.127	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.70	-0.06	1	Titanium	W2W1G60PWM	QPSK	25	0	0 mm	back	1:1	1.202	0.077	0.093	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.62	-0.03	0	Titanium	W2W1G60PWM	QPSK	1	49	0 mm	back	1:1	1.225	0.156	0.191	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.70	0.02	1	Titanium	W2W1G60PWM	QPSK	25	0	0 mm	back	1:1	1.202	0.107	0.129	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.62	0.01	0	Titanium	W2W1G60PWM	QPSK	1	49	0 mm	back	1:1	1.225	0.141	0.173	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.70	-0.04	1	Titanium	W2W1G60PWM	QPSK	25	0	0 mm	back	1:1	1.202	0.113	0.136	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

Table 10-21
LTE B14 Extremity SAR Data

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	24.69	0.09	0	Aluminum	HR4GJGCXL5	QPSK	1	25	0 mm	back	1:1	1.205	0.099	0.119	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.70	-0.18	1	Aluminum	HR4GJGCXL5	QPSK	25	12	0 mm	back	1:1	1.202	0.077	0.093	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.69	0.01	0	Aluminum	HR4GJGCXL5	QPSK	1	25	0 mm	back	1:1	1.205	0.150	0.181	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.70	0.13	1	Aluminum	HR4GJGCXL5	QPSK	25	12	0 mm	back	1:1	1.202	0.128	0.154	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.69	0.10	0	Aluminum	HR4GJGCXL5	QPSK	1	25	0 mm	back	1:1	1.205	0.154	0.186	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.70	0.12	1	Aluminum	HR4GJGCXL5	QPSK	25	12	0 mm	back	1:1	1.202	0.121	0.145	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.69	0.20	0	Stainless Steel	G5W30M4HJL	QPSK	1	25	0 mm	back	1:1	1.205	0.105	0.127	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.70	0.16	1	Stainless Steel	G5W30M4HJL	QPSK	25	12	0 mm	back	1:1	1.202	0.082	0.099	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.69	-0.20	0	Stainless Steel	G5W30M4HJL	QPSK	1	25	0 mm	back	1:1	1.205	0.179	0.216	A21
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.70	0.17	1	Stainless Steel	G5W30M4HJL	QPSK	25	12	0 mm	back	1:1	1.202	0.146	0.175	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.69	0.17	0	Stainless Steel	G5W30M4HJL	QPSK	1	25	0 mm	back	1:1	1.205	0.135	0.163	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.70	0.13	1	Stainless Steel	G5W30M4HJL	QPSK	25	12	0 mm	back	1:1	1.202	0.108	0.130	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.69	0.20	0	Titanium	FTQPFH92P7	QPSK	1	25	0 mm	back	1:1	1.205	0.112	0.135	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.70	0.13	1	Titanium	FTQPFH92P7	QPSK	25	12	0 mm	back	1:1	1.202	0.087	0.105	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.69	0.15	0	Titanium	FTQPFH92P7	QPSK	1	25	0 mm	back	1:1	1.205	0.152	0.183	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.70	0.14	1	Titanium	FTQPFH92P7	QPSK	25	12	0 mm	back	1:1	1.202	0.119	0.143	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.69	-0.12	0	Titanium	FTQPFH92P7	QPSK	1	25	0 mm	back	1:1	1.205	0.138	0.166	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.70	-0.05	1	Titanium	FTQPFH92P7	QPSK	25	12	0 mm	back	1:1	1.202	0.110	0.132	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

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Table 10-22
LTE B26 Extremity SAR Data

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)	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.50	24.82	0.10	0	Aluminum	HCVQM9TR29	QPSK	1	49	0 mm	back	1:1	1.169	0.050	0.058	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.50	23.84	0.21	1	Aluminum	HCVQM9TR29	QPSK	25	25	0 mm	back	1:1	1.164	0.039	0.045	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.50	24.82	-0.03	0	Aluminum	HCVQM9TR29	QPSK	1	49	0 mm	back	1:1	1.169	0.091	0.106	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.50	23.84	-0.01	1	Aluminum	HCVQM9TR29	QPSK	25	25	0 mm	back	1:1	1.164	0.072	0.084	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.82	0.20	0	Aluminum	HCVQM9TR29	QPSK	1	49	0 mm	back	1:1	1.169	0.069	0.081	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.84	0.14	1	Aluminum	HCVQM9TR29	QPSK	25	25	0 mm	back	1:1	1.164	0.054	0.063	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.50	24.82	0.20	0	Stainless Steel	RQW0WPY2PT	QPSK	1	49	0 mm	back	1:1	1.169	0.053	0.062	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.50	23.84	-0.20	1	Stainless Steel	RQW0WPY2PT	QPSK	25	25	0 mm	back	1:1	1.164	0.045	0.052	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.50	24.82	-0.04	0	Stainless Steel	RQW0WPY2PT	QPSK	1	49	0 mm	back	1:1	1.169	0.061	0.071	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.50	23.84	-0.15	1	Stainless Steel	RQW0WPY2PT	QPSK	25	25	0 mm	back	1:1	1.164	0.053	0.062	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.82	0.15	0	Stainless Steel	RQW0WPY2PT	QPSK	1	49	0 mm	back	1:1	1.169	0.068	0.079	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.84	0.10	1	Stainless Steel	RQW0WPY2PT	QPSK	25	25	0 mm	back	1:1	1.164	0.056	0.065	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	25.50	24.82	0.20	0	Titanium	WRP9DNN4LW	QPSK	1	49	0 mm	back	1:1	1.169	0.054	0.063	
819.00	26740	Low	LTE Band 26 (Cell)	10	Sport	24.50	23.84	0.15	1	Titanium	WRP9DNN4LW	QPSK	25	25	0 mm	back	1:1	1.164	0.044	0.051	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	25.50	24.82	-0.06	0	Titanium	WRP9DNN4LW	QPSK	1	49	0 mm	back	1:1	1.169	0.175	0.205	A22
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Links	24.50	23.84	0.21	1	Titanium	WRP9DNN4LW	QPSK	25	25	0 mm	back	1:1	1.164	0.080	0.093	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.82	-0.13	0	Titanium	WRP9DNN4LW	QPSK	1	49	0 mm	back	1:1	1.169	0.073	0.085	
819.00	26740	Low	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.84	-0.05	1	Titanium	WRP9DNN4LW	QPSK	25	25	0 mm	back	1:1	1.164	0.056	0.065	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

Table 10-23
LTE B5 Extremity SAR Data

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	24.61	0.17	0	Aluminum	HR4GJGCXL5	QPSK	1	49	0 mm	back	1:1	1.227	0.066	0.081	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.74	-0.12	1	Aluminum	HR4GJGCXL5	QPSK	25	25	0 mm	back	1:1	1.191	0.051	0.061	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.61	0.13	0	Aluminum	HR4GJGCXL5	QPSK	1	49	0 mm	back	1:1	1.227	0.109	0.134	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.74	-0.15	1	Aluminum	HR4GJGCXL5	QPSK	25	25	0 mm	back	1:1	1.191	0.088	0.105	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.61	0.10	0	Aluminum	HR4GJGCXL5	QPSK	1	49	0 mm	back	1:1	1.227	0.092	0.113	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.74	0.12	1	Aluminum	HR4GJGCXL5	QPSK	25	25	0 mm	back	1:1	1.191	0.073	0.087	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.61	0.14	0	Stainless Steel	Y0FVTG9R7P	QPSK	1	49	0 mm	back	1:1	1.227	0.079	0.097	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.74	0.17	1	Stainless Steel	Y0FVTG9R7P	QPSK	25	25	0 mm	back	1:1	1.191	0.063	0.075	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.61	-0.12	0	Stainless Steel	Y0FVTG9R7P	QPSK	1	49	0 mm	back	1:1	1.227	0.198	0.243	A23
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.74	0.21	1	Stainless Steel	Y0FVTG9R7P	QPSK	25	25	0 mm	back	1:1	1.191	0.125	0.149	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.61	-0.14	0	Stainless Steel	Y0FVTG9R7P	QPSK	1	49	0 mm	back	1:1	1.227	0.103	0.126	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.74	0.12	1	Stainless Steel	Y0FVTG9R7P	QPSK	25	25	0 mm	back	1:1	1.191	0.076	0.091	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.61	0.12	0	Titanium	NQ6G9XQ2FT	QPSK	1	49	0 mm	back	1:1	1.227	0.077	0.094	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.74	0.15	1	Titanium	NQ6G9XQ2FT	QPSK	25	25	0 mm	back	1:1	1.191	0.062	0.074	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.61	0.10	0	Titanium	NQ6G9XQ2FT	QPSK	1	49	0 mm	back	1:1	1.227	0.126	0.155	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.74	-0.15	1	Titanium	NQ6G9XQ2FT	QPSK	25	25	0 mm	back	1:1	1.191	0.104	0.124	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.61	0.07	0	Titanium	NQ6G9XQ2FT	QPSK	1	49	0 mm	back	1:1	1.227	0.116	0.142	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.74	-0.13	1	Titanium	NQ6G9XQ2FT	QPSK	25	25	0 mm	back	1:1	1.191	0.080	0.095	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

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Table 10-24
LTE B66 Extremity SAR Data

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	23.20	0.14	0	Aluminum	F6V95V9GW9	QPSK	1	99	0 mm	back	1:1	1.349	0.037	0.050	A24
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.45	0.18	1	Aluminum	F6V95V9GW9	QPSK	50	50	0 mm	back	1:1	1.274	0.021	0.027	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.20	-0.18	0	Aluminum	F6V95V9GW9	QPSK	1	99	0 mm	back	1:1	1.349	0.025	0.034	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.45	-0.20	1	Aluminum	F6V95V9GW9	QPSK	50	50	0 mm	back	1:1	1.274	0.024	0.031	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.20	-0.10	0	Aluminum	F6V95V9GW9	QPSK	1	99	0 mm	back	1:1	1.349	0.031	0.042	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.45	-0.06	1	Aluminum	F6V95V9GW9	QPSK	50	50	0 mm	back	1:1	1.274	0.027	0.034	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.20	0.20	0	Stainless Steel	N61M7257LL	QPSK	1	99	0 mm	back	1:1	1.349	0.028	0.038	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.45	0.01	1	Stainless Steel	N61M7257LL	QPSK	50	50	0 mm	back	1:1	1.274	0.026	0.033	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.20	0.09	0	Stainless Steel	N61M7257LL	QPSK	1	99	0 mm	back	1:1	1.349	0.022	0.030	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.45	-0.04	1	Stainless Steel	N61M7257LL	QPSK	50	50	0 mm	back	1:1	1.274	0.021	0.027	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.20	-0.12	0	Stainless Steel	N61M7257LL	QPSK	1	99	0 mm	back	1:1	1.349	0.031	0.042	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.45	0.03	1	Stainless Steel	N61M7257LL	QPSK	50	50	0 mm	back	1:1	1.274	0.026	0.033	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.20	-0.20	0	Titanium	HJ123566VW	QPSK	1	99	0 mm	back	1:1	1.349	0.032	0.043	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.45	0.20	1	Titanium	HJ123566VW	QPSK	50	50	0 mm	back	1:1	1.274	0.024	0.031	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.20	-0.11	0	Titanium	HJ123566VW	QPSK	1	99	0 mm	back	1:1	1.349	0.033	0.045	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.45	-0.14	1	Titanium	HJ123566VW	QPSK	50	50	0 mm	back	1:1	1.274	0.022	0.028	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.20	0.11	0	Titanium	HJ123566VW	QPSK	1	99	0 mm	back	1:1	1.349	0.009	0.012	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.45	0.14	1	Titanium	HJ123566VW	QPSK	50	50	0 mm	back	1:1	1.274	0.007	0.009	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

Table 10-25
LTE B25 Extremity SAR Data

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)	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	24.50	23.24	0.17	0	Aluminum	V9NKJWQ939	QPSK	1	99	0 mm	back	1:1	1.337	0.035	0.047	A25
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	23.50	22.37	0.21	1	Aluminum	V9NKJWQ939	QPSK	50	50	0 mm	back	1:1	1.297	0.029	0.038	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	24.50	23.24	0.17	0	Aluminum	V9NKJWQ939	QPSK	1	99	0 mm	back	1:1	1.337	0.031	0.041	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	23.50	22.37	0.16	1	Aluminum	V9NKJWQ939	QPSK	50	50	0 mm	back	1:1	1.297	0.027	0.035	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.24	-0.10	0	Aluminum	V9NKJWQ939	QPSK	1	99	0 mm	back	1:1	1.337	0.018	0.024	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.37	0.12	1	Aluminum	V9NKJWQ939	QPSK	50	50	0 mm	back	1:1	1.297	0.014	0.018	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	24.50	23.24	0.20	0	Stainless Steel	N61M7257LL	QPSK	1	99	0 mm	back	1:1	1.337	0.026	0.035	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	23.50	22.37	0.12	1	Stainless Steel	N61M7257LL	QPSK	50	50	0 mm	back	1:1	1.297	0.021	0.027	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	24.50	23.24	-0.12	0	Stainless Steel	N61M7257LL	QPSK	1	99	0 mm	back	1:1	1.337	0.022	0.029	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	23.50	22.37	-0.05	1	Stainless Steel	N61M7257LL	QPSK	50	50	0 mm	back	1:1	1.297	0.018	0.023	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.24	0.06	0	Stainless Steel	N61M7257LL	QPSK	1	99	0 mm	back	1:1	1.337	0.031	0.041	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.37	-0.17	1	Stainless Steel	N61M7257LL	QPSK	50	50	0 mm	back	1:1	1.297	0.026	0.034	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	24.50	23.24	0.12	0	Titanium	W2W1G60PWM	QPSK	1	99	0 mm	back	1:1	1.337	0.027	0.036	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Sport	23.50	22.37	-0.12	1	Titanium	W2W1G60PWM	QPSK	50	50	0 mm	back	1:1	1.297	0.022	0.029	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	24.50	23.24	0.18	0	Titanium	W2W1G60PWM	QPSK	1	99	0 mm	back	1:1	1.337	0.031	0.041	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Links	23.50	22.37	0.20	1	Titanium	W2W1G60PWM	QPSK	50	50	0 mm	back	1:1	1.297	0.025	0.032	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.24	-0.04	0	Titanium	W2W1G60PWM	QPSK	1	99	0 mm	back	1:1	1.337	0.021	0.028	
1860.00	26140	Low	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.37	0.14	1	Titanium	W2W1G60PWM	QPSK	50	50	0 mm	back	1:1	1.297	0.024	0.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

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Table 10-26
LTE B7 Extremity SAR Data

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)	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	22.40	-0.20	0	Aluminum	LCF42X76Q4	QPSK	1	99	0 mm	back	1:1	1.288	0.021	0.027	A26
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.39	-0.10	1	Aluminum	LCF42X76Q4	QPSK	50	50	0 mm	back	1:1	1.291	0.016	0.021	
2560.00	21350	High	LTE Band 7	20	Metal Links	23.50	22.40	-0.20	0	Aluminum	LCF42X76Q4	QPSK	1	99	0 mm	back	1:1	1.288	0.010	0.013	
2560.00	21350	High	LTE Band 7	20	Metal Links	22.50	21.39	-0.06	1	Aluminum	LCF42X76Q4	QPSK	50	50	0 mm	back	1:1	1.291	0.008	0.010	
2560.00	21350	High	LTE Band 7	20	Metal Loop	23.50	22.40	-0.18	0	Aluminum	LCF42X76Q4	QPSK	1	99	0 mm	back	1:1	1.288	0.007	0.009	
2560.00	21350	High	LTE Band 7	20	Metal Loop	22.50	21.39	0.10	1	Aluminum	LCF42X76Q4	QPSK	50	50	0 mm	back	1:1	1.291	0.004	0.005	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	22.40	0.00	0	Stainless Steel	GSW30M4HJL	QPSK	1	99	0 mm	back	1:1	1.288	0.006	0.008	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.39	-0.10	1	Stainless Steel	GSW30M4HJL	QPSK	50	50	0 mm	back	1:1	1.291	0.005	0.006	
2560.00	21350	High	LTE Band 7	20	Metal Links	23.50	22.40	-0.11	0	Stainless Steel	GSW30M4HJL	QPSK	1	99	0 mm	back	1:1	1.288	0.008	0.010	
2560.00	21350	High	LTE Band 7	20	Metal Links	22.50	21.39	0.15	1	Stainless Steel	GSW30M4HJL	QPSK	50	50	0 mm	back	1:1	1.291	0.006	0.008	
2560.00	21350	High	LTE Band 7	20	Metal Loop	23.50	22.40	0.06	0	Stainless Steel	GSW30M4HJL	QPSK	1	99	0 mm	back	1:1	1.288	0.007	0.009	
2560.00	21350	High	LTE Band 7	20	Metal Loop	22.50	21.39	0.20	1	Stainless Steel	GSW30M4HJL	QPSK	50	50	0 mm	back	1:1	1.291	0.005	0.006	
2560.00	21350	High	LTE Band 7	20	Sport	23.50	22.40	-0.20	0	Titanium	FTQPFH92P7	QPSK	1	99	0 mm	back	1:1	1.288	0.017	0.022	
2560.00	21350	High	LTE Band 7	20	Sport	22.50	21.39	0.20	1	Titanium	FTQPFH92P7	QPSK	50	50	0 mm	back	1:1	1.291	0.011	0.014	
2560.00	21350	High	LTE Band 7	20	Metal Links	23.50	22.40	-0.12	0	Titanium	FTQPFH92P7	QPSK	1	99	0 mm	back	1:1	1.288	0.007	0.009	
2560.00	21350	High	LTE Band 7	20	Metal Links	22.50	21.39	-0.12	1	Titanium	FTQPFH92P7	QPSK	50	50	0 mm	back	1:1	1.291	0.005	0.006	
2560.00	21350	High	LTE Band 7	20	Metal Loop	23.50	22.40	-0.13	0	Titanium	FTQPFH92P7	QPSK	1	99	0 mm	back	1:1	1.288	0.007	0.009	
2560.00	21350	High	LTE Band 7	20	Metal Loop	22.50	21.39	0.20	1	Titanium	FTQPFH92P7	QPSK	50	50	0 mm	back	1:1	1.291	0.004	0.005	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

Table 10-27
LTE B41 Extremity SAR Data

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)		
2593.00	40620	Mid	LTE Band 41	20	Sport	23.50	22.68	-0.20	0	Aluminum	LCF42X76Q4	QPSK	1	50	0 mm	back	1:1.58	1.208	0.007	0.008	A27
2593.00	40620	Mid	LTE Band 41	20	Sport	22.50	21.61	-0.15	1	Aluminum	LCF42X76Q4	QPSK	50	25	0 mm	back	1:1.58	1.227	0.006	0.007	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.50	22.68	-0.08	0	Aluminum	LCF42X76Q4	QPSK	1	50	0 mm	back	1:1.58	1.208	0.004	0.005	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.50	21.61	0.02	1	Aluminum	LCF42X76Q4	QPSK	50	25	0 mm	back	1:1.58	1.227	0.004	0.005	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.50	22.68	-0.06	0	Aluminum	LCF42X76Q4	QPSK	1	50	0 mm	back	1:1.58	1.208	0.004	0.005	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.50	21.61	0.10	1	Aluminum	LCF42X76Q4	QPSK	50	25	0 mm	back	1:1.58	1.227	0.003	0.004	
2593.00	40620	Mid	LTE Band 41	20	Sport	23.50	22.68	0.20	0	Stainless Steel	GSW30M4HJL	QPSK	1	50	0 mm	back	1:1.58	1.208	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Sport	22.50	21.61	0.12	1	Stainless Steel	GSW30M4HJL	QPSK	50	25	0 mm	back	1:1.58	1.227	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.50	22.68	-0.20	0	Stainless Steel	GSW30M4HJL	QPSK	1	50	0 mm	back	1:1.58	1.208	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.50	21.61	-0.15	1	Stainless Steel	GSW30M4HJL	QPSK	50	25	0 mm	back	1:1.58	1.227	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.50	22.68	0.13	0	Stainless Steel	GSW30M4HJL	QPSK	1	50	0 mm	back	1:1.58	1.208	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.50	21.61	-0.03	1	Stainless Steel	GSW30M4HJL	QPSK	50	25	0 mm	back	1:1.58	1.227	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Sport	23.50	22.68	-0.10	0	Titanium	NQ6G9XQ2FT	QPSK	1	50	0 mm	back	1:1.58	1.208	0.001	0.001	
2593.00	40620	Mid	LTE Band 41	20	Sport	22.50	21.61	0.10	1	Titanium	NQ6G9XQ2FT	QPSK	50	25	0 mm	back	1:1.58	1.227	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	23.50	22.68	0.12	0	Titanium	NQ6G9XQ2FT	QPSK	1	50	0 mm	back	1:1.58	1.208	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Metal Links	22.50	21.61	-0.04	1	Titanium	NQ6G9XQ2FT	QPSK	50	25	0 mm	back	1:1.58	1.227	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	23.50	22.68	0.17	0	Titanium	NQ6G9XQ2FT	QPSK	1	50	0 mm	back	1:1.58	1.208	0.000	0.000	
2593.00	40620	Mid	LTE Band 41	20	Metal Loop	22.50	21.61	0.05	1	Titanium	NQ6G9XQ2FT	QPSK	50	25	0 mm	back	1:1.58	1.227	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Extremity 4.0 W/kg (mW/g) averaged over 10 gram												

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Table 10-28
2.4GHz WLAN Extremity SAR Data

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	17.80	-0.12	0 mm	Aluminum	Sport	HCVQM9TR29	1	back	99.7	1.318	1.003	0.008	0.011	A28
2462	11	802.11b	DSSS	22	19.00	17.80	0.13	0 mm	Aluminum	Metal Links	HCVQM9TR29	1	back	99.7	1.318	1.003	0.001	0.001	
2462	11	802.11b	DSSS	22	19.00	17.80	0.20	0 mm	Aluminum	Metal Loop	HCVQM9TR29	1	back	99.7	1.318	1.003	0.002	0.003	
2462	11	802.11b	DSSS	22	19.00	17.80	-0.10	0 mm	Stainless Steel	Sport	QXDQ977KPJ	1	back	99.7	1.318	1.003	0.002	0.003	
2462	11	802.11b	DSSS	22	19.00	17.80	0.11	0 mm	Stainless Steel	Metal Links	QXDQ977KPJ	1	back	99.7	1.318	1.003	0.003	0.004	
2462	11	802.11b	DSSS	22	19.00	17.80	0.16	0 mm	Stainless Steel	Metal Loop	QXDQ977KPJ	1	back	99.7	1.318	1.003	0.001	0.001	
2462	11	802.11b	DSSS	22	19.00	17.80	0.02	0 mm	Titanium	Sport	FTQPFH92P7	1	back	99.7	1.318	1.003	0.003	0.004	
2462	11	802.11b	DSSS	22	19.00	17.80	-0.03	0 mm	Titanium	Metal Links	FTQPFH92P7	1	back	99.7	1.318	1.003	0.002	0.003	
2462	11	802.11b	DSSS	22	19.00	17.80	0.12	0 mm	Titanium	Metal Loop	FTQPFH92P7	1	back	99.7	1.318	1.003	0.001	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Extremity											
Spatial Peak								4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population								averaged over 10 gram											

Table 10-29
5GHz WLAN Extremity SAR Data

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	16.08	0.17	0 mm	Aluminum	Sport	V9NKJWQ939	6	back	97.5	1.236	1.026	0.009	0.011	
5300	60	802.11a	OFDM	20	17.00	16.08	0.20	0 mm	Aluminum	Metal Links	V9NKJWQ939	6	back	97.5	1.236	1.026	0.010	0.013	
5300	60	802.11a	OFDM	20	17.00	16.08	0.20	0 mm	Aluminum	Metal Loop	V9NKJWQ939	6	back	97.5	1.236	1.026	0.011	0.014	
5300	60	802.11a	OFDM	20	17.00	16.08	0.13	0 mm	Stainless Steel	Sport	JQCLGYY357	6	back	97.5	1.236	1.026	0.008	0.010	
5300	60	802.11a	OFDM	20	17.00	16.08	-0.12	0 mm	Stainless Steel	Metal Links	JQCLGYY357	6	back	97.5	1.236	1.026	0.007	0.009	
5300	60	802.11a	OFDM	20	17.00	16.08	0.15	0 mm	Stainless Steel	Metal Loop	JQCLGYY357	6	back	97.5	1.236	1.026	0.007	0.009	
5300	60	802.11a	OFDM	20	17.00	16.08	0.05	0 mm	Titanium	Sport	QFYQKQ3WQ	6	back	97.5	1.236	1.026	0.008	0.010	
5300	60	802.11a	OFDM	20	17.00	16.08	0.20	0 mm	Titanium	Metal Links	QFYQKQ3WQ	6	back	97.5	1.236	1.026	0.007	0.009	
5300	60	802.11a	OFDM	20	17.00	16.08	-0.10	0 mm	Titanium	Metal Loop	QFYQKQ3WQ	6	back	97.5	1.236	1.026	0.010	0.013	
5600	120	802.11a	OFDM	20	17.00	16.20	0.14	0 mm	Aluminum	Sport	V9NKJWQ939	6	back	97.5	1.202	1.026	0.012	0.015	
5600	120	802.11a	OFDM	20	17.00	16.20	0.12	0 mm	Aluminum	Metal Links	V9NKJWQ939	6	back	97.5	1.202	1.026	0.013	0.016	
5600	120	802.11a	OFDM	20	17.00	16.20	-0.10	0 mm	Aluminum	Metal Loop	V9NKJWQ939	6	back	97.5	1.202	1.026	0.006	0.007	
5600	120	802.11a	OFDM	20	17.00	16.20	-0.17	0 mm	Stainless Steel	Sport	JQCLGYY357	6	back	97.5	1.202	1.026	0.010	0.012	
5600	120	802.11a	OFDM	20	17.00	16.20	-0.12	0 mm	Stainless Steel	Metal Links	JQCLGYY357	6	back	97.5	1.202	1.026	0.012	0.015	
5600	120	802.11a	OFDM	20	17.00	16.20	-0.03	0 mm	Stainless Steel	Metal Loop	JQCLGYY357	6	back	97.5	1.202	1.026	0.010	0.012	
5600	120	802.11a	OFDM	20	17.00	16.20	-0.15	0 mm	Titanium	Sport	QFYQKQ3WQ	6	back	97.5	1.202	1.026	0.009	0.011	
5600	120	802.11a	OFDM	20	17.00	16.20	-0.09	0 mm	Titanium	Metal Links	QFYQKQ3WQ	6	back	97.5	1.202	1.026	0.006	0.007	
5600	120	802.11a	OFDM	20	17.00	16.20	0.12	0 mm	Titanium	Metal Loop	QFYQKQ3WQ	6	back	97.5	1.202	1.026	0.016	0.020	A29
5785	157	802.11a	OFDM	20	17.00	16.18	0.15	0 mm	Aluminum	Sport	V9NKJWQ939	6	back	97.5	1.208	1.026	0.008	0.010	
5785	157	802.11a	OFDM	20	17.00	16.18	-0.10	0 mm	Aluminum	Metal Links	V9NKJWQ939	6	back	97.5	1.208	1.026	0.013	0.016	
5785	157	802.11a	OFDM	20	17.00	16.18	0.19	0 mm	Aluminum	Metal Loop	V9NKJWQ939	6	back	97.5	1.208	1.026	0.012	0.015	
5785	157	802.11a	OFDM	20	17.00	16.18	0.18	0 mm	Stainless Steel	Sport	JQCLGYY357	6	back	97.5	1.208	1.026	0.001	0.001	
5785	157	802.11a	OFDM	20	17.00	16.18	-0.15	0 mm	Stainless Steel	Metal Links	JQCLGYY357	6	back	97.5	1.208	1.026	0.004	0.005	
5785	157	802.11a	OFDM	20	17.00	16.18	0.10	0 mm	Stainless Steel	Metal Loop	JQCLGYY357	6	back	97.5	1.208	1.026	0.007	0.009	
5785	157	802.11a	OFDM	20	17.00	16.18	0.10	0 mm	Titanium	Sport	QFYQKQ3WQ	6	back	97.5	1.208	1.026	0.009	0.011	
5785	157	802.11a	OFDM	20	17.00	16.18	-0.10	0 mm	Titanium	Metal Links	QFYQKQ3WQ	6	back	97.5	1.208	1.026	0.008	0.010	
5785	157	802.11a	OFDM	20	17.00	16.18	0.13	0 mm	Titanium	Metal Loop	QFYQKQ3WQ	6	back	97.5	1.208	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 gram											

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Table 10-30
Bluetooth Extremity SAR Data

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)	
2402	0	Bluetooth	FHSS	13.00	12.19	0.20	0 mm	Aluminum	Sport	NY6XGG474J	1	back	100	1.205	1.000	0.000	0.000	
2402	0	Bluetooth	FHSS	13.00	12.19	0.15	0 mm	Aluminum	Metal Links	NY6XGG474J	1	back	100	1.205	1.000	0.000	0.000	
2402	0	Bluetooth	FHSS	13.00	12.19	0.12	0 mm	Aluminum	Metal Loop	NY6XGG474J	1	back	100	1.205	1.000	0.000	0.000	
2402	0	Bluetooth	FHSS	13.00	12.19	-0.12	0 mm	Stainless Steel	Sport	G5W30M4HJL	1	back	100	1.205	1.000	0.000	0.000	
2402	0	Bluetooth	FHSS	13.00	12.19	-0.20	0 mm	Stainless Steel	Metal Links	G5W30M4HJL	1	back	100	1.205	1.000	0.000	0.000	
2402	0	Bluetooth	FHSS	13.00	12.19	-0.05	0 mm	Stainless Steel	Metal Loop	G5W30M4HJL	1	back	100	1.205	1.000	0.000	0.000	
2402	0	Bluetooth	FHSS	13.00	12.19	-0.10	0 mm	Titanium	Sport	NQ6G9XQ2FT	1	back	100	1.205	1.000	0.001	0.001	A30
2402	0	Bluetooth	FHSS	13.00	12.19	-0.05	0 mm	Titanium	Metal Links	NQ6G9XQ2FT	1	back	100	1.205	1.000	0.000	0.000	
2402	0	Bluetooth	FHSS	13.00	12.19	0.07	0 mm	Titanium	Metal Loop	NQ6G9XQ2FT	1	back	100	1.205	1.000	0.000	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Extremity 4.0 W/kg (mW/g) averaged over 1 gram											

10.3 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg and 2.0 W/kg for 10g SAR.
7. 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.
8. This device is a portable wrist-worn device and does not support any other use conditions. Therefore, the procedures in FCC KDB Publication 447498 D01v06 Section 6.2 have been applied for extremity and next to mouth (head) conditions.
9. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
10. The orange highlights throughout the report represents the highest scaled SAR per Equipment Class.

UMTS Notes:

1. 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.
2. 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 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.

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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 16QAM 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

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 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	0.476	0.476
	UMTS 1750	0.345	0.476	0.821
	UMTS 1900	0.553	0.476	1.029
	LTE Band 12	0.000	0.476	0.476
	LTE Band 13	0.001	0.476	0.477
	LTE Band 14	0.001	0.476	0.477
	LTE Band 26 (Cell)	0.002	0.476	0.478
	LTE Band 5 (Cell)	0.002	0.476	0.478
	LTE Band 66 (AWS)	0.403	0.476	0.879
	LTE Band 25 (PCS)	0.594	0.476	1.070
	LTE Band 7	0.963	0.476	1.439
	LTE Band 41	0.410	0.476	0.886

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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	0.152	0.147	0.152	0.147	0.299
	UMTS 1750	0.345	0.152	0.147	0.497	0.492	0.644
	UMTS 1900	0.553	0.152	0.147	0.705	0.700	0.852
	LTE Band 12	0.000	0.152	0.147	0.152	0.147	0.299
	LTE Band 13	0.001	0.152	0.147	0.153	0.148	0.300
	LTE Band 14	0.001	0.152	0.147	0.153	0.148	0.300
	LTE Band 26 (Cell)	0.002	0.152	0.147	0.154	0.149	0.301
	LTE Band 5 (Cell)	0.002	0.152	0.147	0.154	0.149	0.301
	LTE Band 66 (AWS)	0.403	0.152	0.147	0.555	0.550	0.702
	LTE Band 25 (PCS)	0.594	0.152	0.147	0.746	0.741	0.893
	LTE Band 7	0.963	0.152	0.147	1.115	1.110	1.262
	LTE Band 41	0.410	0.152	0.147	0.562	0.557	0.709

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	0.152	0.147	0.299

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11.4 Extremity 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	0.201	0.011	0.212
	UMTS 1750	0.060	0.011	0.071
	UMTS 1900	0.054	0.011	0.065
	LTE Band 12	0.184	0.011	0.195
	LTE Band 13	0.222	0.011	0.233
	LTE Band 14	0.216	0.011	0.227
	LTE Band 26 (Cell)	0.205	0.011	0.216
	LTE Band 5 (Cell)	0.243	0.011	0.254
	LTE Band 66 (AWS)	0.050	0.011	0.061
	LTE Band 25 (PCS)	0.047	0.011	0.058
	LTE Band 7	0.027	0.011	0.038
	LTE Band 41	0.008	0.011	0.019

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	0.201	0.001	0.020	0.202	0.221	0.222
	UMTS 1750	0.060	0.001	0.020	0.061	0.080	0.081
	UMTS 1900	0.054	0.001	0.020	0.055	0.074	0.075
	LTE Band 12	0.184	0.001	0.020	0.185	0.204	0.205
	LTE Band 13	0.222	0.001	0.020	0.223	0.242	0.243
	LTE Band 14	0.216	0.001	0.020	0.217	0.236	0.237
	LTE Band 26 (Cell)	0.205	0.001	0.020	0.206	0.225	0.226
	LTE Band 5 (Cell)	0.243	0.001	0.020	0.244	0.263	0.264
	LTE Band 66 (AWS)	0.050	0.001	0.020	0.051	0.070	0.071
	LTE Band 25 (PCS)	0.047	0.001	0.020	0.048	0.067	0.068
	LTE Band 7	0.027	0.001	0.020	0.028	0.047	0.048
	LTE Band 41	0.008	0.001	0.020	0.009	0.028	0.029

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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	0.001	0.020	0.021

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 D01v01, SAR measurement variability was not assessed for each frequency band since all measured SAR values are < 0.8 W/kg for 1g SAR and < 2.0 W/kg for 10g SAR.

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	9/16/2020	Annual	9/16/2021	MY40000670
Agilent	E4438C	ESG Vector Signal Generator	12/2/2020	Annual	12/2/2021	MY42081752
Agilent	E5515C	Wireless Communications Test Set	12/15/2020	Annual	12/15/2021	GB42361078
Agilent	N5182A	MXG Vector Signal Generator	9/25/2020	Annual	9/25/2021	US46240505
Agilent	N5182A	MXG Vector Signal Generator	12/1/2020	Annual	12/1/2021	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	1551G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1244515
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1248508
Anritsu	MA24106A	USB Power Sensor	2/25/2021	Annual	2/25/2022	1520503
Anritsu	MA24106A	USB Power Sensor	2/25/2021	Annual	2/25/2022	1520501
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Anritsu	ML2495A	Power Meter	11/3/2020	Annual	11/3/2021	1039008
Anritsu	MT8820C	Radio Communication Analyzer	9/30/2020	Annual	9/30/2021	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	5/21/2021	Annual	5/21/2022	6201144419
Control Company	4040	Therm./Clock/Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113269
Control Company	4040	Therm./Clock/Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113274
Control Company	4040	Therm./Clock/Humidity Monitor	3/6/2020	Biennial	3/6/2022	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	1/17/2020	Biennial	1/17/2022	409193536
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	4/13/2020	Annual	4/13/2022	167284
Rohde & Schwarz	CMW500	Radio Communication Tester	4/27/2021	Annual	4/27/2022	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	1/9/2020	Biennial	1/9/2022	100990
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	9/17/2020	Annual	9/17/2021	145663
Rosenberger	32W1006-016	Torque Wrench	12/1/2020	Annual	12/1/2021	N/A
SPEAG	DAKS-3.5	Portable DAK	9/9/2020	Annual	9/9/2021	1045
SPEAG	D750V3	750 MHz SAR Dipole	6/20/2019	Triennial	6/20/2021	1057
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2020	Annual	9/8/2021	1097
SPEAG	D835V2	835 MHz SAR Dipole	6/20/2019	Triennial	6/20/2022	4d040
SPEAG	D850V2	850 MHz SAR Dipole	9/8/2020	Annual	9/8/2021	1010
SPEAG	D1750V2	1750 MHz SAR Dipole	6/19/2019	Triennial	6/19/2022	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	6/19/2019	Triennial	6/19/2022	5d030
SPEAG	D1900V2	1900 MHz SAR Dipole	9/10/2021	Annual	9/10/2022	5d181
SPEAG	D2450V2	2450 MHz SAR Dipole	6/14/2019	Triennial	6/14/2022	750
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Triennial	6/14/2022	1042
SPEAG	D5GH2V2	5 GHz SAR Dipole	3/10/2021	Annual	3/10/2022	1123
SPEAG	EX3DV4	SAR Probe	3/3/2021	Annual	3/3/2022	7640
SPEAG	EX3DV4	SAR Probe	4/19/2021	Annual	4/19/2022	7532
SPEAG	EX3DV4	SAR Probe	3/3/2021	Annual	3/3/2022	7639
SPEAG	EX3DV4	SAR Probe	5/18/2021	Annual	5/18/2022	7416
SPEAG	EX3DV4	SAR Probe	3/3/2021	Annual	3/3/2022	7638
SPEAG	EX3DV4	SAR Probe	1/18/2021	Annual	1/18/2022	3837
SPEAG	EX3DV4	SAR Probe	2/17/2021	Annual	2/17/2022	7427
SPEAG	EX3DV4	SAR Probe	8/19/2021	Annual	8/19/2021	3949
SPEAG	EX3DV4	SAR Probe	10/21/2020	Annual	10/21/2021	7420
SPEAG	EX3DV4	SAR Probe	3/17/2021	Annual	3/17/2022	7421
SPEAG	EX3DV4	SAR Probe	10/21/2020	Annual	10/21/2021	7558
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/11/2021	Annual	1/11/2022	1645
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2021	Annual	4/13/2022	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/11/2021	Annual	1/11/2022	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2021	Annual	5/11/2022	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2021	Annual	1/13/2022	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/11/2021	Annual	2/11/2022	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/11/2021	Annual	1/11/2022	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/13/2020	Annual	9/13/2021	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/12/2020	Annual	10/12/2021	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/10/2021	Annual	3/10/2022	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.

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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							k=2	24.4	24.0
(95% CONFIDENCE LEVEL)									

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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FCC ID: BCG-A2477	 SAR EVALUATION REPORT		Approved by: Quality Manager
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APPENDIX A: SAR TEST DATA

PCTEST

DUT: BCG-A2477; Type: Watch; Serial: W2W1G60PWM

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

Frequency: 836.6 MHz

Medium: 835 Head Medium parameters used (interpolated):

$f = 836.6$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 42.499$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/02/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7558; ConvF(9.95, 9.95, 9.95) @ 836.6 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: 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

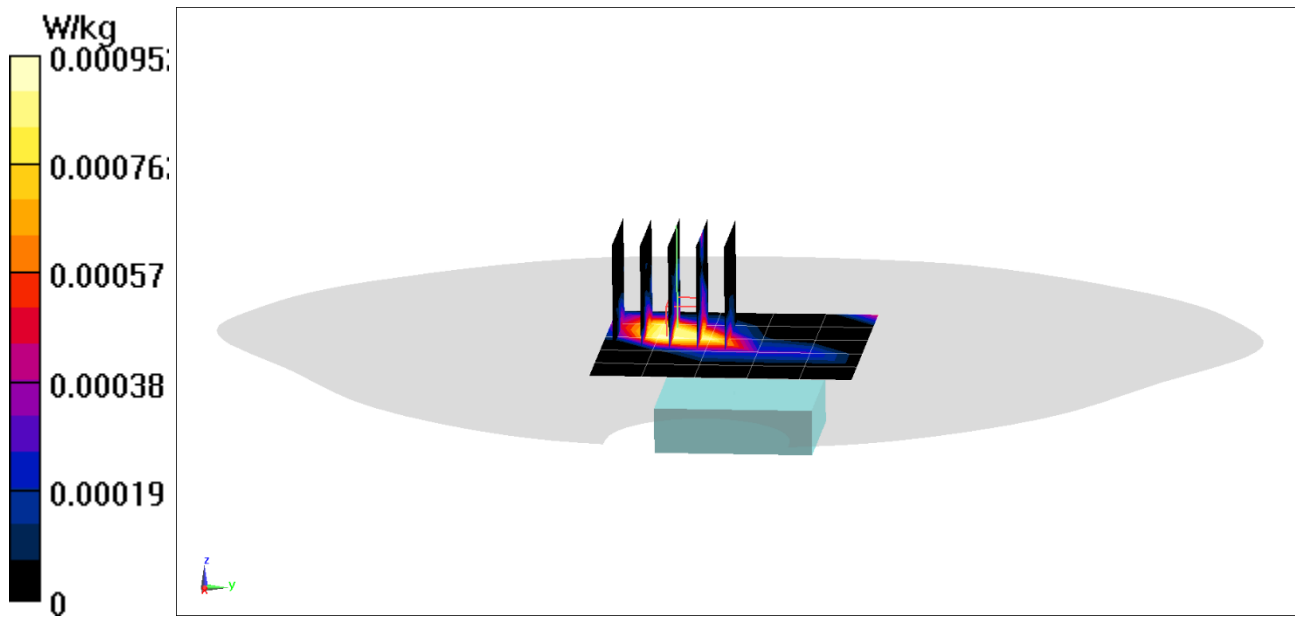
Reference Value = 1.037 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.00204 W/kg

SAR(1 g) = 0.000325 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 38.5%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: W2W1G60PWM

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.4 MHz

Medium: 1750 Head Medium parameters used (interpolated):

$f = 1732.4$ MHz; $\sigma = 1.364$ S/m; $\epsilon_r = 39.214$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

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

Probe: EX3DV4 - SN7640; ConvF(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, Front side, Mid.ch
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

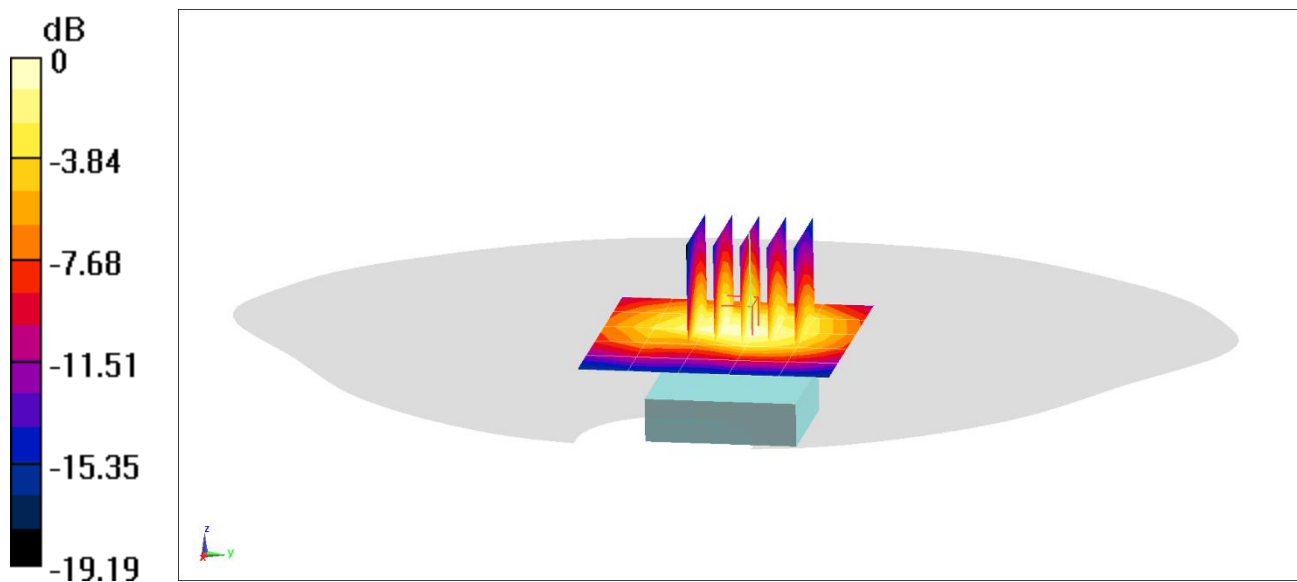
Reference Value = 14.60 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.430 W/kg

SAR(1 g) = 0.275 W/kg

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 67.1%



0 dB = 0.362 W/kg = -4.41 dBW/kg

PCTEST

DUT: BCG-A2477; Type: Watch; Serial: QX0Q977KPJ

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

Medium: 1900 Head; Medium parameters used:

$f = 1880.0$ MHz; $\text{cond} = 1.45$ S/m; $\text{perm} = 39.2$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 07/21/2021; Ambient Temp: 23.2°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7639; ConvF:(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

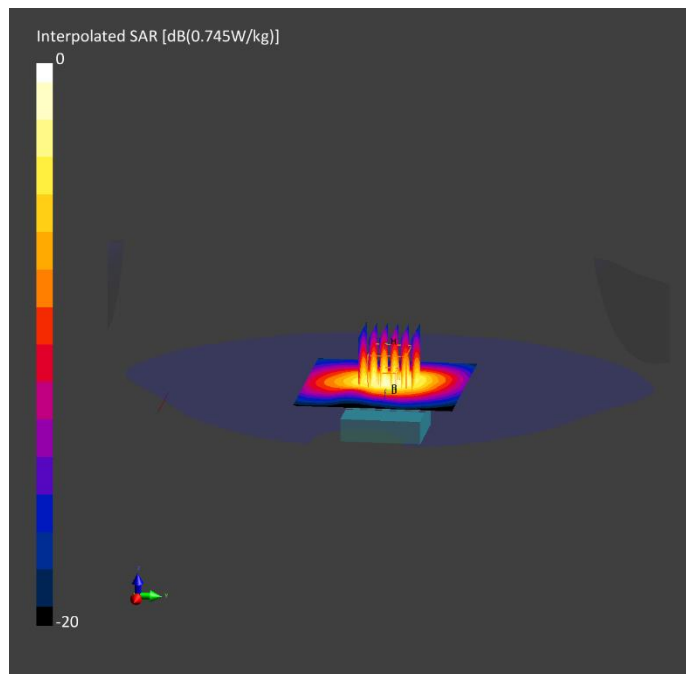
Reference Value = 0.51 W/kg; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.451 W/kg

Smallest distance from peaks to all points 3 dB below is 11.1 mm

Ratio of SAR at M2 to SAR at M1 = 85.1 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: NQ6G9XQ2FT

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):

$f = 707.5$ MHz; $\sigma = 0.903$ S/m; $\epsilon_r = 41.753$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/22/2021; Ambient Temp: 22.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3949; ConvF(10.67, 10.67, 10.67) @ 707.5 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 12, Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 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

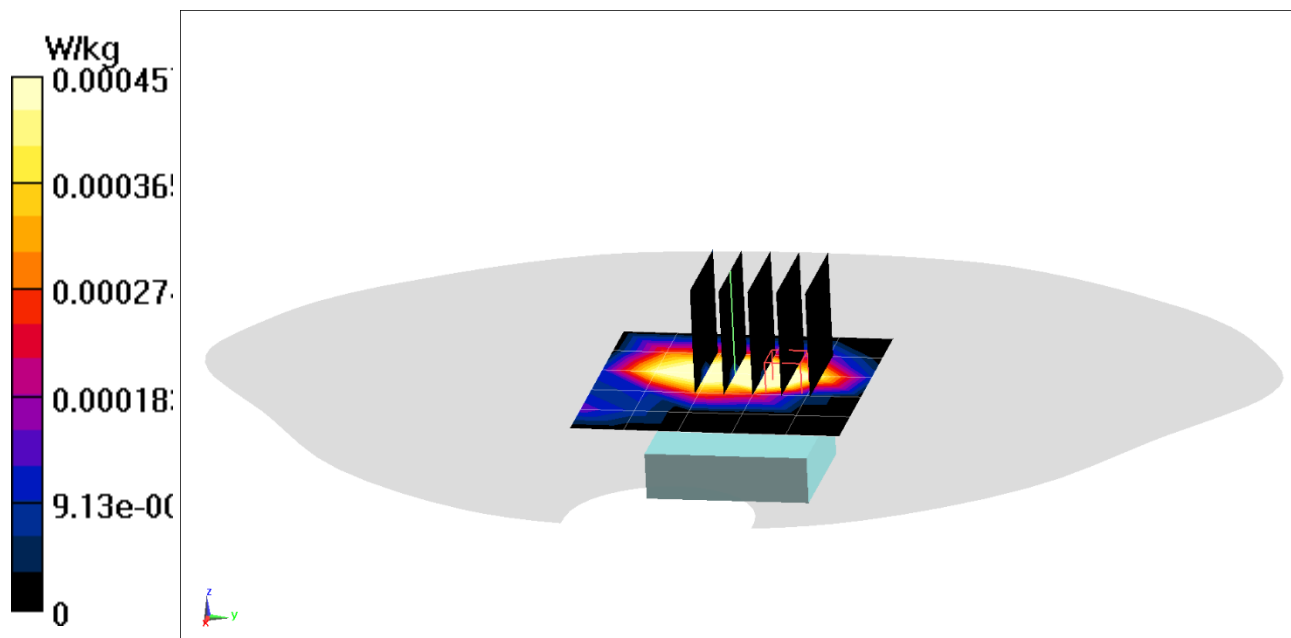
Reference Value = 0.3680 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.000354 W/kg

SAR(1 g) = 1.23e-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-A2477; Type: Watch; Serial: HR4GJGCXL5

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

Frequency: 782 MHz

Medium: 750 Head Medium parameters used (interpolated):

$f = 782 \text{ MHz}$; $\sigma = 0.917 \text{ S/m}$; $\epsilon_r = 40.952$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/12/2021; Ambient Temp: 21.4°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7420; ConvF(10.03, 10.03, 10.03) @ 782 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 81923

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
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

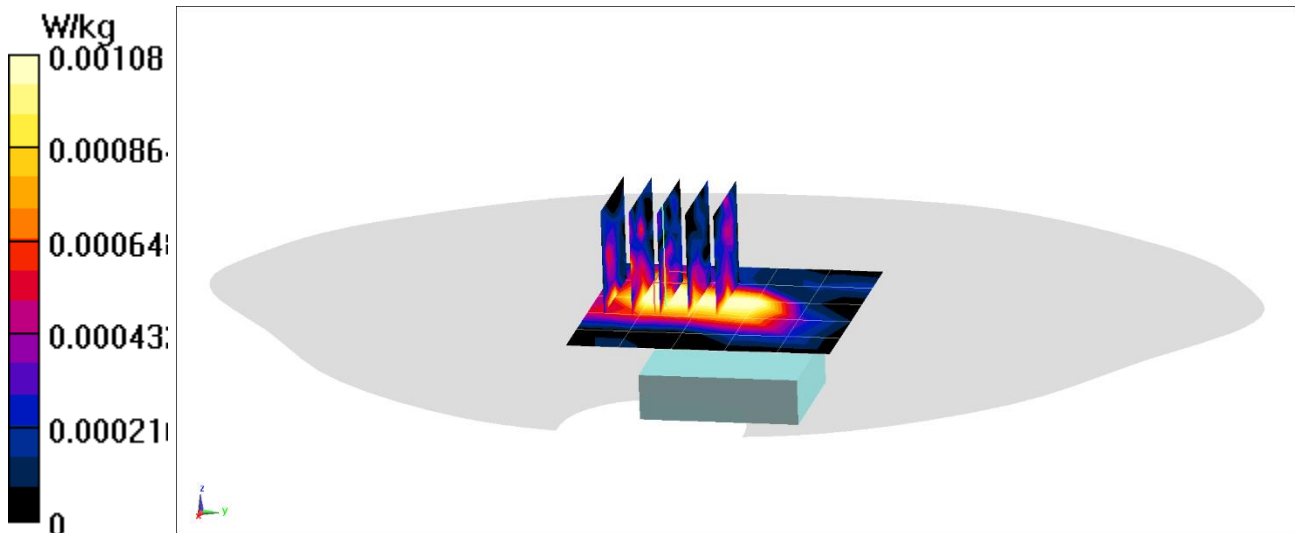
Reference Value = 0.9820 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.00195 W/kg

SAR(1 g) = 0.000693 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 61.5%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: G5W30M4HJL

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

Frequency: 793 MHz

Medium: 750 Head Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 0.908 \text{ S/m}$; $\epsilon_r = 41.833$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/24/2021; Ambient Temp: 23.4°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7421; ConvF(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; 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
Stainless Steel, Sport Wristband**

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

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

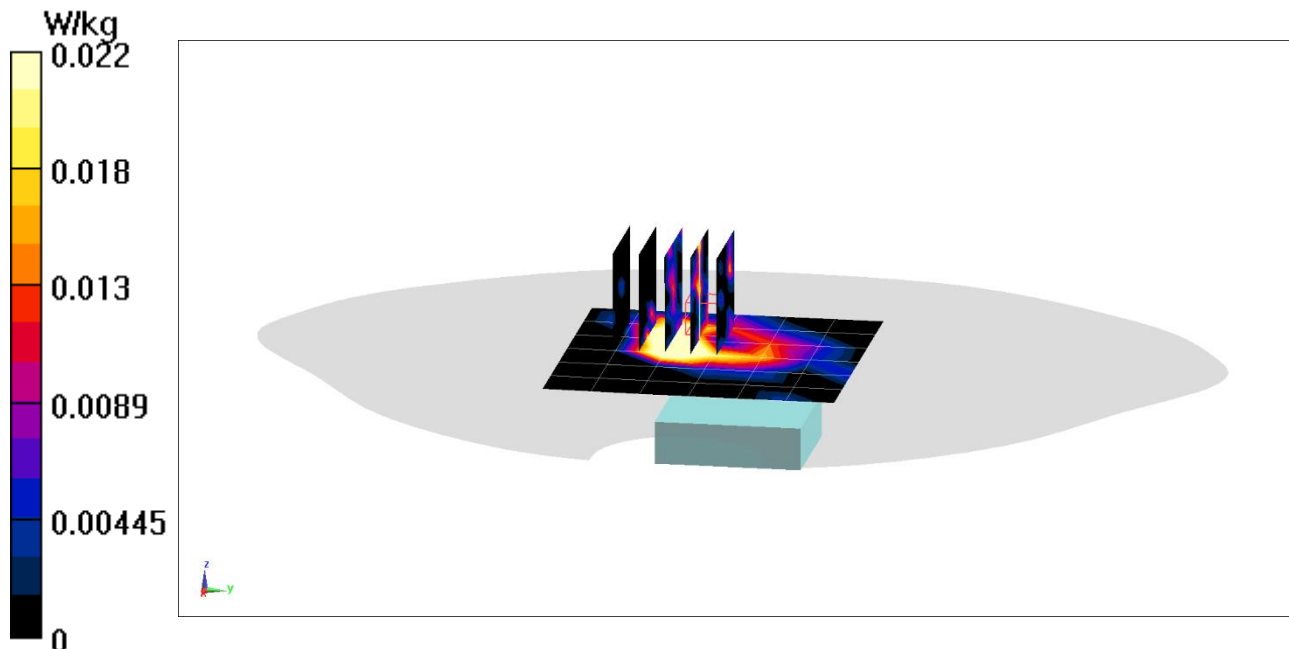
Reference Value = 0.6680 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.0220 W/kg

SAR(1 g) = 0.000768 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-A2477; Type: Watch; Serial: QFYYQKQ3WQ

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

Frequency: 819 MHz

Medium: 835 Head Medium parameters used (interpolated):

$f = 819 \text{ MHz}$; $\sigma = 0.939 \text{ S/m}$; $\epsilon_r = 41.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/27/2021; Ambient Temp: 22.2°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7427; ConvF(9.8, 9.8, 9.8) @ 819 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, Low.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset
Titanium, Metal Loop Wristband**

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

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

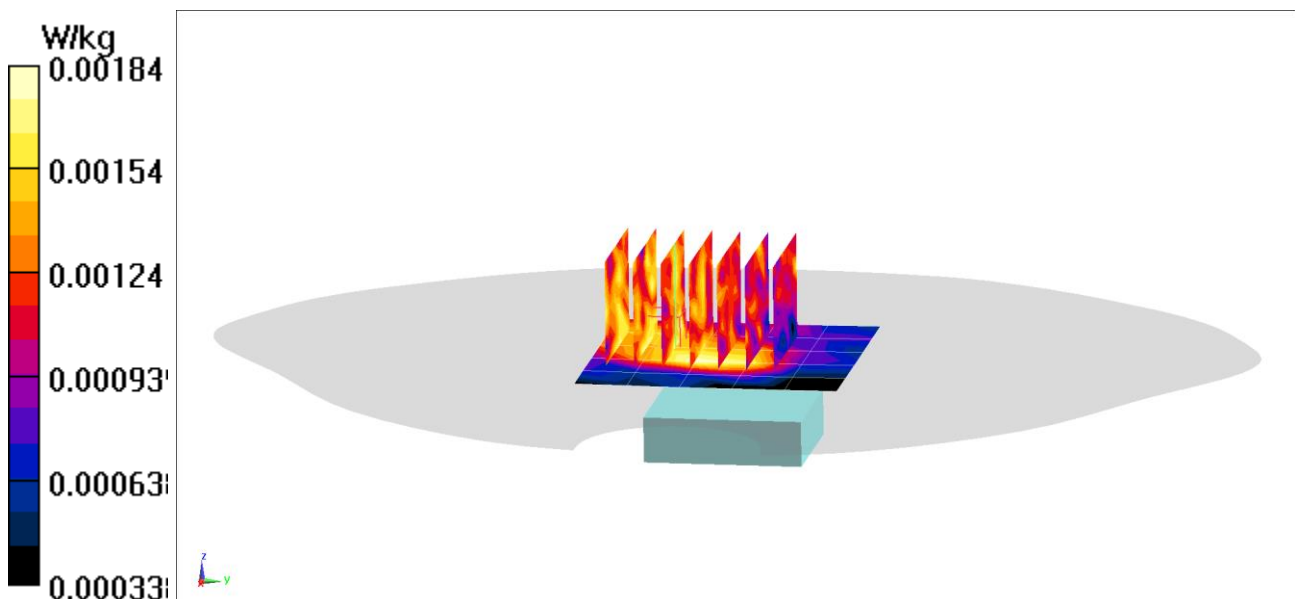
Reference Value = 1.050 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.00274 W/kg

SAR(1 g) = 0.00152 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 66.1%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: QFYYQKQ3WQ

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; $\sigma = 0.945$ S/m; $\epsilon_r = 41.156$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/27/2021; Ambient Temp: 22.2°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7427; ConvF(9.8, 9.8, 9.8) @ 836.5 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 5 (Cell.), Head SAR, Front side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset
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

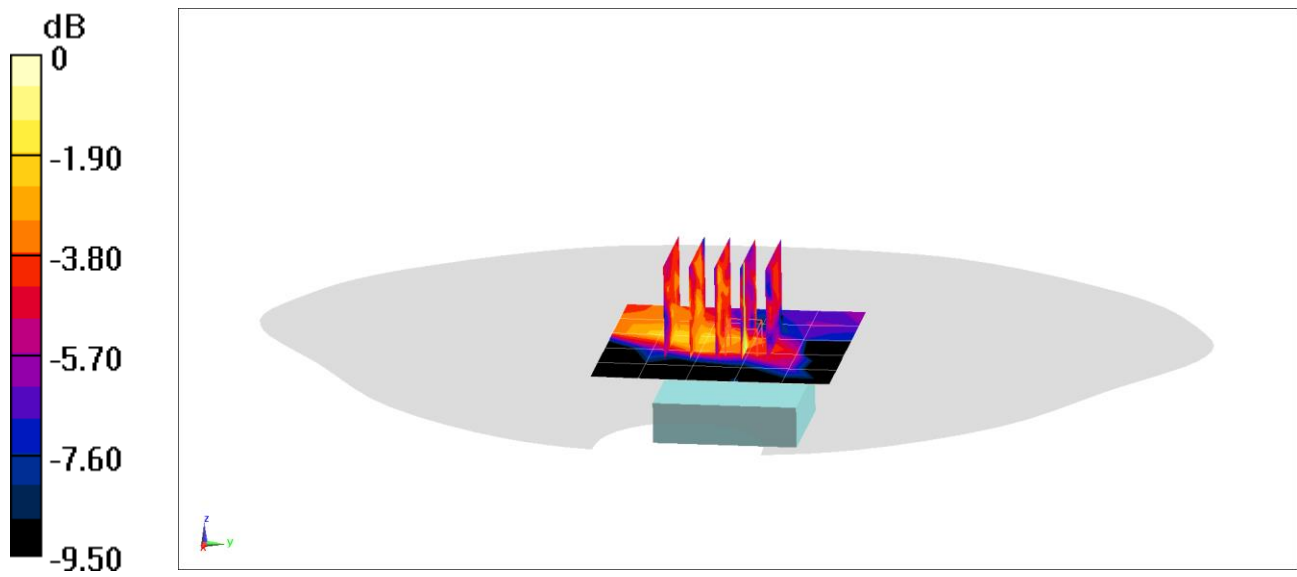
Reference Value = 1.206 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.00306 W/kg

SAR(1 g) = 0.00151 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 73%



0 dB = 0.00273 W/kg = -25.64 dBW/kg

PCTEST

DUT: BCG-A2477; Type: Watch; Serial: V9NKJWQ939

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: 1.0 cm

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

Probe: EX3DV4 - SN3949; ConvF(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
Aluminum, 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

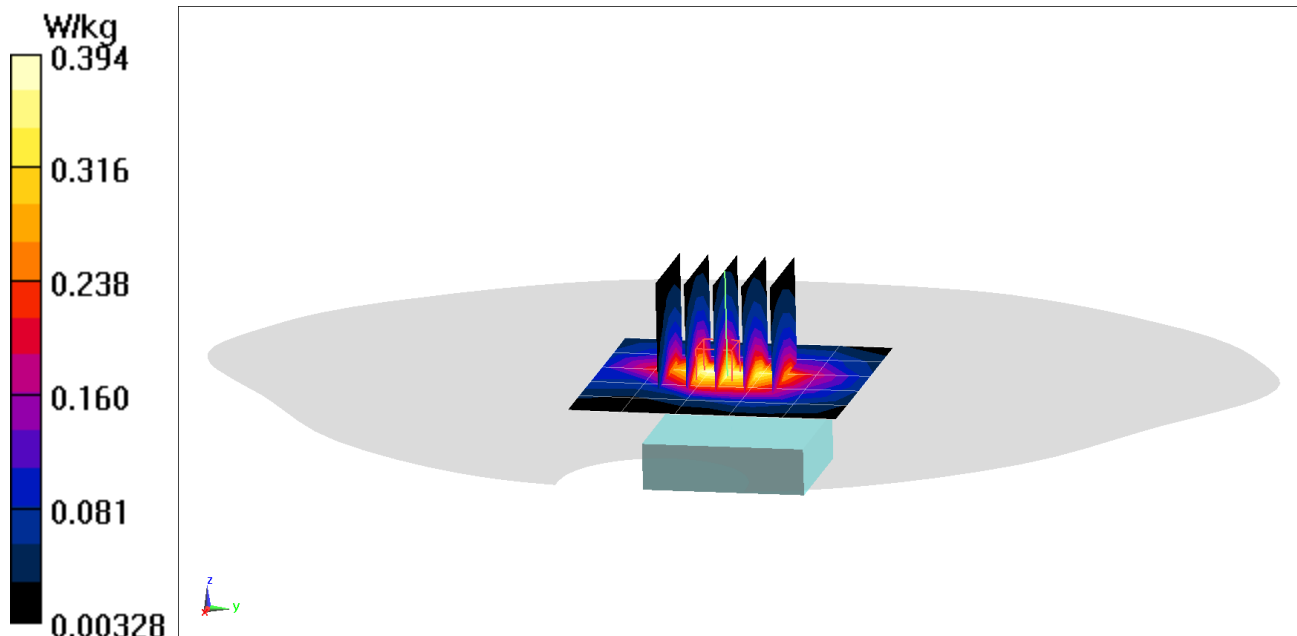
Reference Value = 15.46 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.299 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 68.7%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: RQW0WPY2PT

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

Frequency: 1860 MHz

Medium: 1900 Head Medium parameters used:

$f = 1860$ MHz; $\sigma = 1.427$ S/m; $\epsilon_r = 39.057$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/22/2021; Ambient Temp: 22.9°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7427; ConvF(8.25, 8.25, 8.25) @ 1860 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, 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

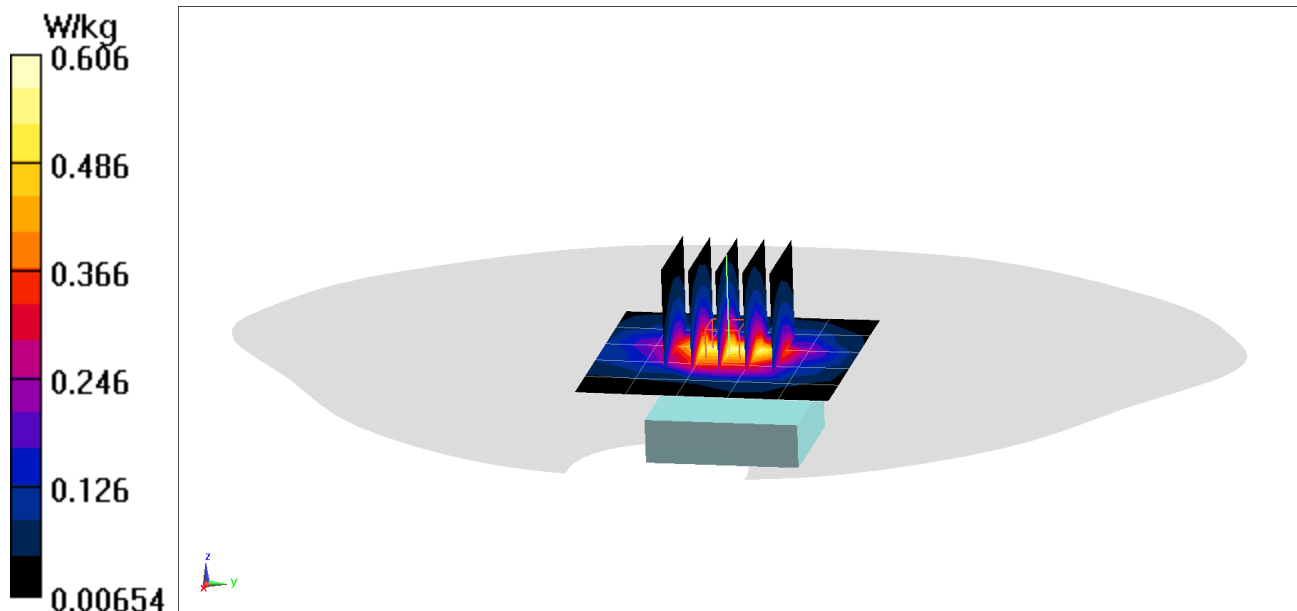
Reference Value = 18.63 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.703 W/kg

SAR(1 g) = 0.444 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 65.8%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: F6V95V9GW9

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

Medium: 2450 Head Medium parameters used:

$f = 2510.0$ MHz; $\text{cond} = 1.94$ S/m; $\text{perm} = 38.4$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/23/2021; Ambient Temp: 21.8°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3837; ConvF:(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 V5.0; 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, 99 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

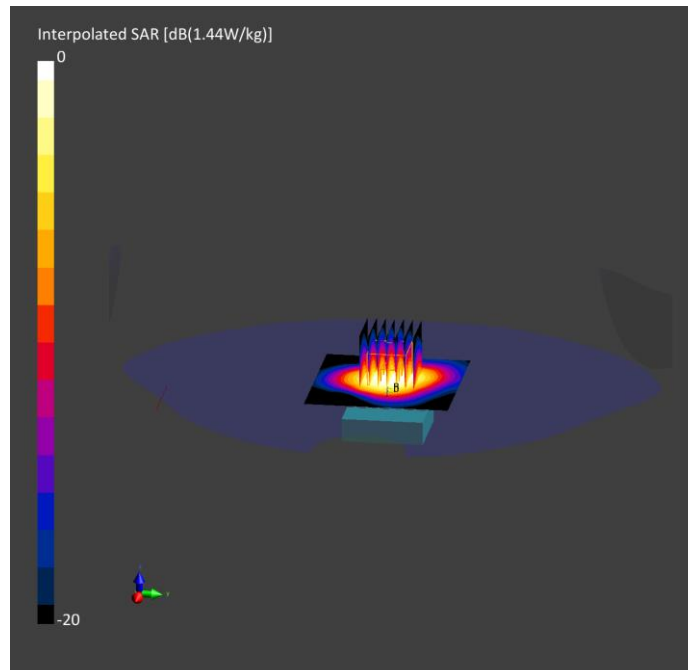
Reference Value = 0.91 W/kg; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.731 W/kg

Smallest distance from peaks to all points 3 dB below is 11.0 mm

Ratio of SAR at M2 to SAR at M1 = 79.8 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: HJ123566VW

Communication System: UID:10435-AAF, LTE-TDD; MAIA: Y; Frequency: 2593.0 MHz

Medium: 2450 Head Medium parameters used:

$f = 2593.0$ MHz; $\text{cond} = 2.00$ S/m; $\text{perm} = 38.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 10.00 mm

Test Date: 06/16/2021; Ambient Temp: 20.7°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3837; ConvF:(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 V5.0; Serial: 1736

Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: LTE Band 41, Head SAR, Front Edge, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 Offset
Titanium, 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

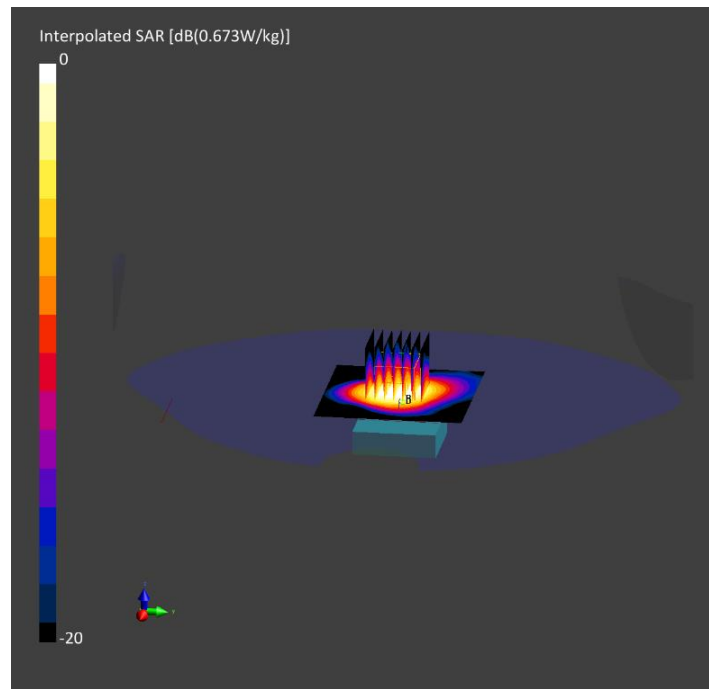
Reference Value = 0.43 W/kg; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.673 W/kg

SAR(1 g) = 0.339 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 = 79.9 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: NY6XGG474J

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):

$f = 2462$ MHz; $\sigma = 1.808$ S/m; $\epsilon_r = 40.393$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/09/2021; Ambient Temp: 22.7°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7558; ConvF(7.62, 7.62, 7.62) @ 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,
Head SAR, Ch 11, 1 Mbps, Front Side
Aluminum, Sport Wristband**

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

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

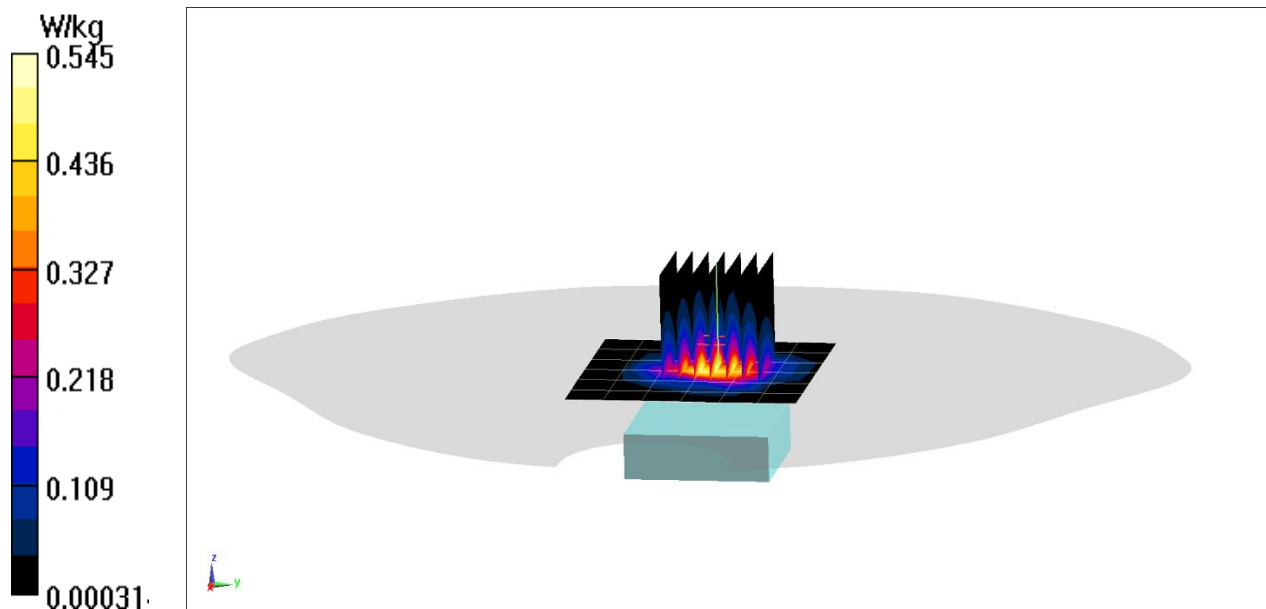
Reference Value = 14.76 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.627 W/kg

SAR(1 g) = 0.360 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.4%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: HGJ22KQ2R2

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

Frequency: 5785 MHz

Medium: 5GHz Head Medium parameters used:

$f = 5785$ MHz; $\sigma = 5.203$ S/m; $\epsilon_r = 35.534$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07/27/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7558; ConvF(4.88, 4.88, 4.88) @ 5785 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 157, 6 Mbps, Front Side
Stainless Steel, Metal Loop 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

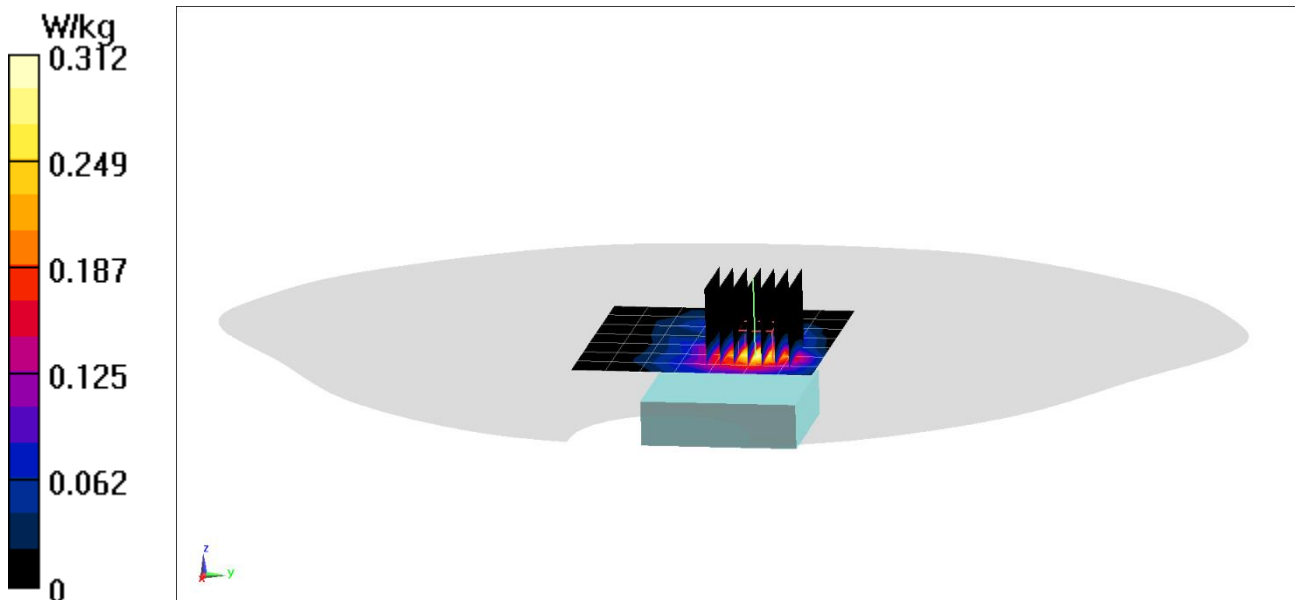
Reference Value = 4.969 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.531 W/kg

SAR(1 g) = 0.119 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.2%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: WRP9DNV4LW

Communication System: UID 10032 - CAA, IEEE 802.15.1 Bluetooth (GFSK, DH5); Frequency: 2402 MHz;
Medium: 2450 Head Medium parameters used (interpolated):
 $f = 2402 \text{ MHz}$; $\sigma = 1.789 \text{ S/m}$; $\epsilon_r = 38.701$; $\rho = 1000 \text{ kg/m}^3$
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; ConvF(8.76, 8.76, 8.76) @ 2402 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 0, 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: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

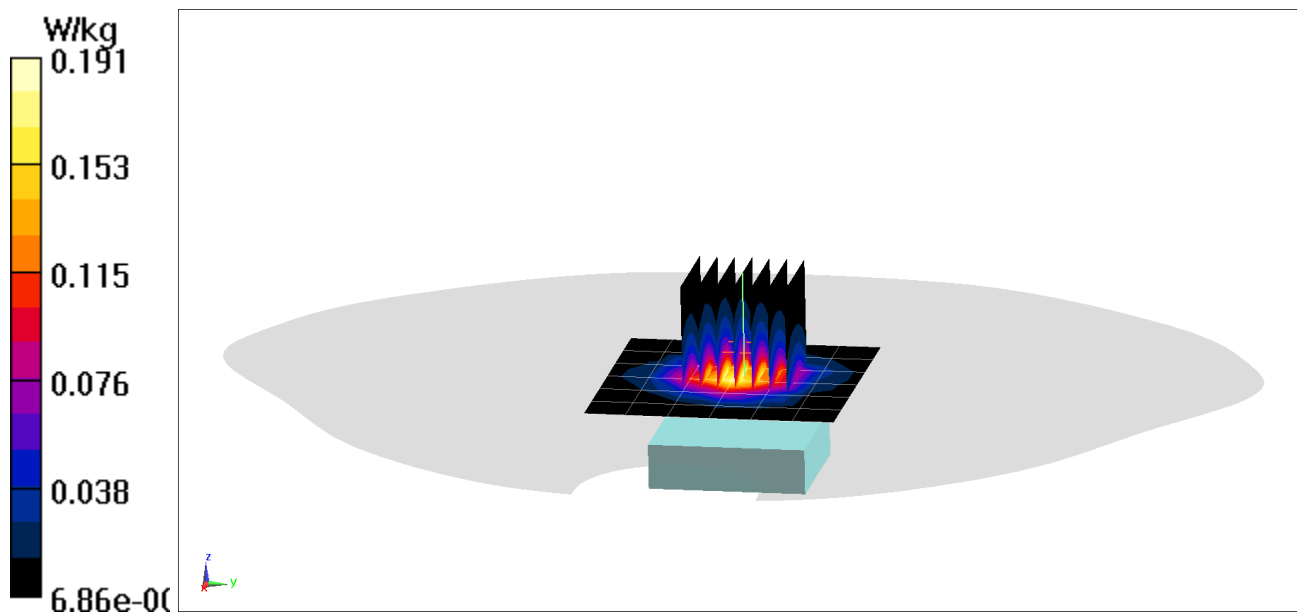
Reference Value = 8.811 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.230 W/kg

SAR(1 g) = 0.126 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.1%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: FTQPFH92P7

Communication System: UID:10011 - CAB, WCDMA; MAIA: Y; Frequency: 836.6 MHz

Medium: 835 Body Medium parameters used:

$f = 836.6$ MHz; $\text{cond} = 0.96$ S/m; $\text{perm} = 53.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 08/09/2021; Ambient Temp: 22.2°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7639; ConvF:(10.53,10.53,10.53); 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 850, 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: $dx=3.1$ mm, $dy=3.1$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

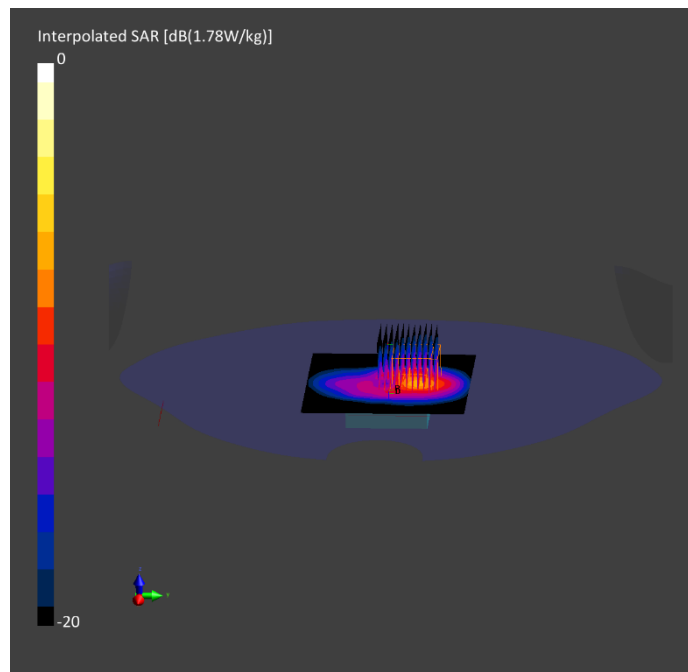
Reference Value = 0.37 W/kg; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(10 g) = 0.161 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.4 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: HCVQM9TR29

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; ConvF:(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

**Mode: UMTS 1750, Extremity SAR. Back side, Mid. Ch
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=6.0 mm, dy=6.0 mm, dz=1.5 mm; Graded Ratio: 1.5

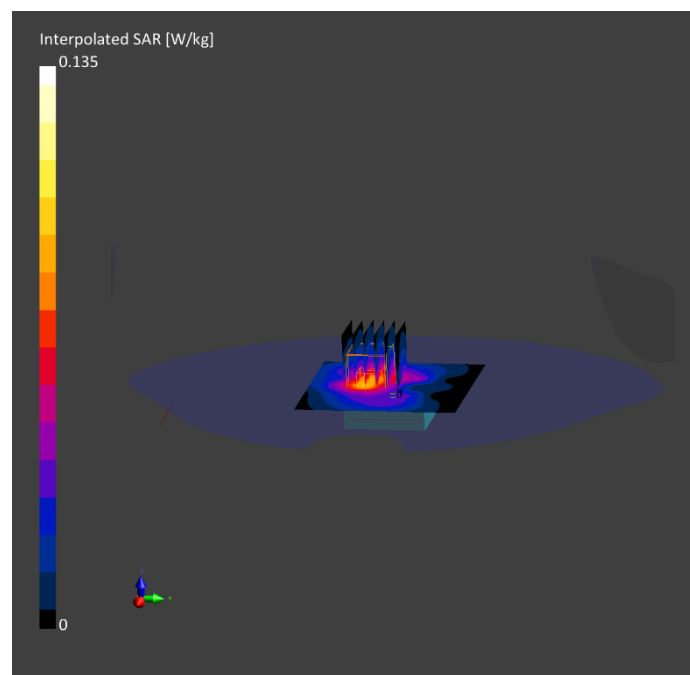
Reference Value = 0.09 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.135 W/kg

SAR(10 g) = 0.048 W/kg

Smallest distance from peaks to all points 3 dB below is 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 83.8 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: HR4GJGCXL5

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz

Medium: 1900 Body Medium parameters used:

$f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ S/m}$; $\epsilon_r = 53.744$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06/28/2021; Ambient Temp: 22.7°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7640; ConvF(9.06, 9.06, 9.06) @ 1880 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 1900, Extremity SAR, Back side, Mid.ch
Aluminum, 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

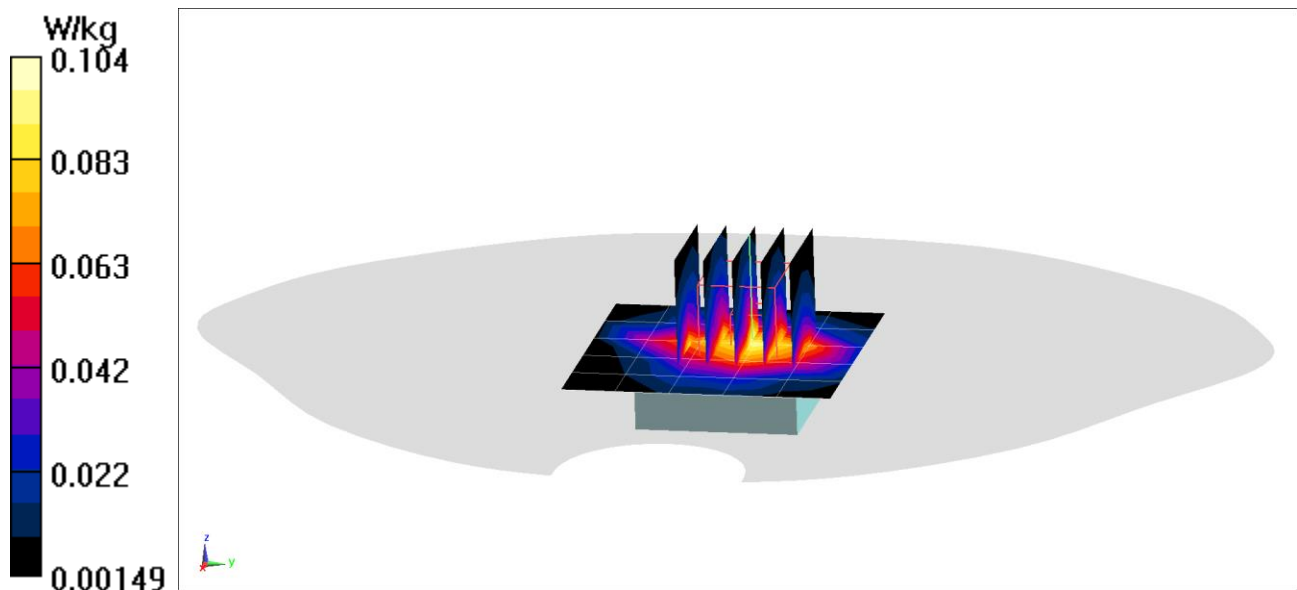
Reference Value = 6.604 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.121 W/kg

SAR(10 g) = 0.044 W/kg

Smallest distance from peaks to all points 3 dB below = 13.8 mm

Ratio of SAR at M2 to SAR at M1 = 66.9%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: FTQPFH92P7

Communication System: UID:10175 - CAG, LTE-FDD; MAIA: Y; Frequency: 707.5 MHz

Medium: 750 Body Medium parameters used:

$f = 707.5$ MHz; $\text{cond} = 0.94$ S/m; $\text{perm} = 54.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/26/2021; Ambient Temp: 22.9°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7416; ConvF:(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 (30deg probe tilt); Serial: 1357

Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: LTE Band 12, Extremity SAR, Back Side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 25 RB Offset
Titanium, 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: $dx=3.8$ mm, $dy=3.8$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

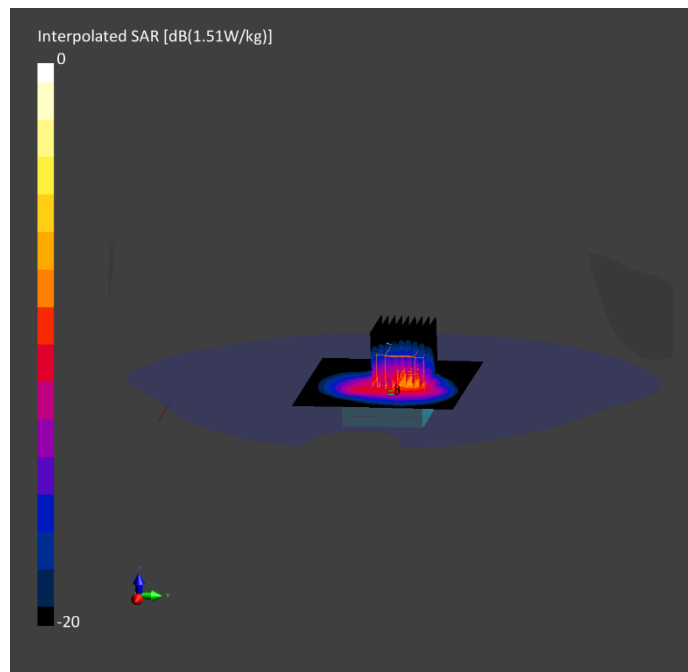
Reference Value = 0.31 W/kg; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(10 g) = 0.142 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.3 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: RQW0WPY2PT

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

Medium: 750 Body Medium parameters used:

$f = 782.0$ MHz; $\text{cond} = 1.00$ S/m; $\text{perm} = 52.9$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 06/30/2021; Ambient Temp: 22.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7416; ConvF:(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
Stainless Steel, 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: $dx=3.2$ mm, $dy=3.2$ mm, $dz=1.2$ mm; Graded Ratio: 1.2

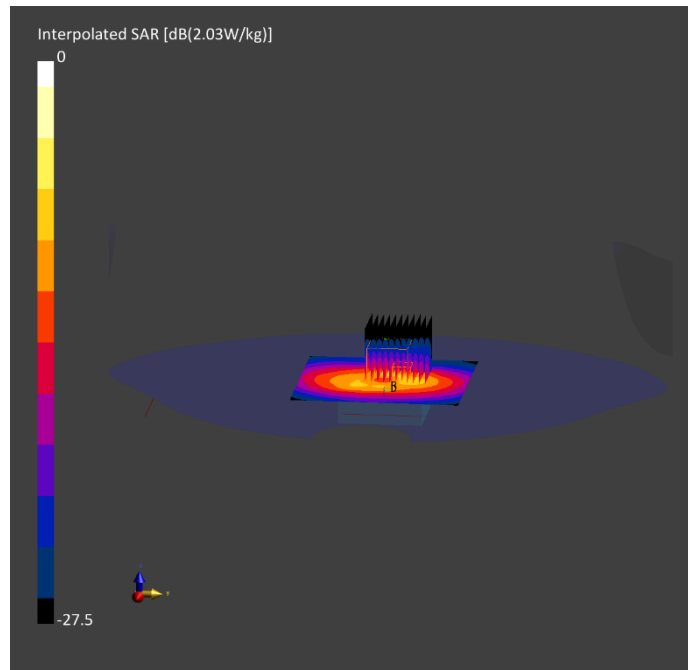
Reference Value = 0.42 W/kg; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.03 W/kg

SAR(10 g) = 0.181 W/kg

Smallest distance from peaks to all points 3 dB below is 4.1 mm

Ratio of SAR at M2 to SAR at M1 = 57.7 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: G5W30M4HJL

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

Frequency: 793 MHz

Medium: 750 Body Medium parameters used (interpolated):

$f = 793 \text{ MHz}$; $\sigma = 0.954 \text{ S/m}$; $\epsilon_r = 53.557$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

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

Probe: EX3DV4 - SN7416; ConvF(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; 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
Stainless Steel, Metal Links Wristband**

Area Scan (8x9x1): Measurement grid: $dx=14\text{mm}$, $dy=13\text{mm}$

Zoom Scan (11x11x8)/Cube 0: Measurement grid: $dx=3.4\text{mm}$, $dy=3.4\text{mm}$, $dz=1.4\text{mm}$; Graded Ratio: 1.4

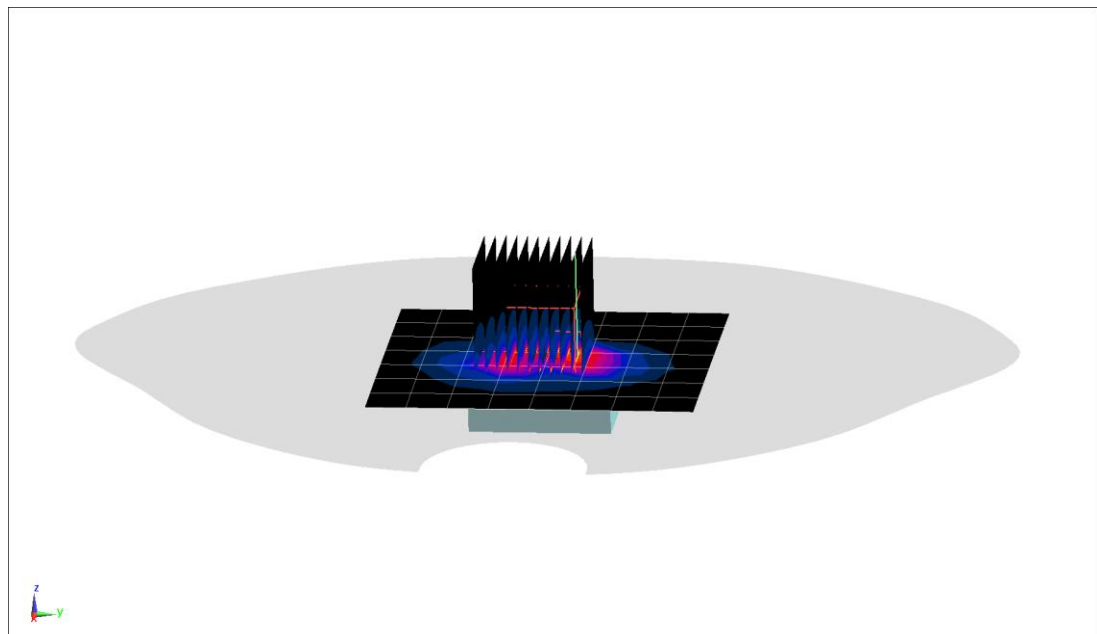
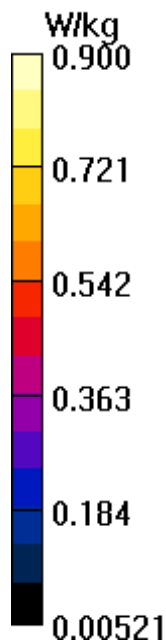
Reference Value = 17.33 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 3.34 W/kg

SAR(10 g) = 0.179 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: WRP9DNV4LW

Communication System: UID:10175 - CAG, LTE-FDD; MAIA: Y; Frequency: 819.0 MHz

Medium: 835 Body Medium parameters used:

$f = 819.0$ MHz; $\text{cond} = 0.95$ S/m; $\text{perm} = 53.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0 mm

Test Date: 08/09/2021; Ambient Temp: 22.2°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7639; ConvF:(10.53,10.53,10.53); 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: LTE Band 26, Extremity SAR, Back Side, Low.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: $dx=3.8$ mm, $dy=3.8$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

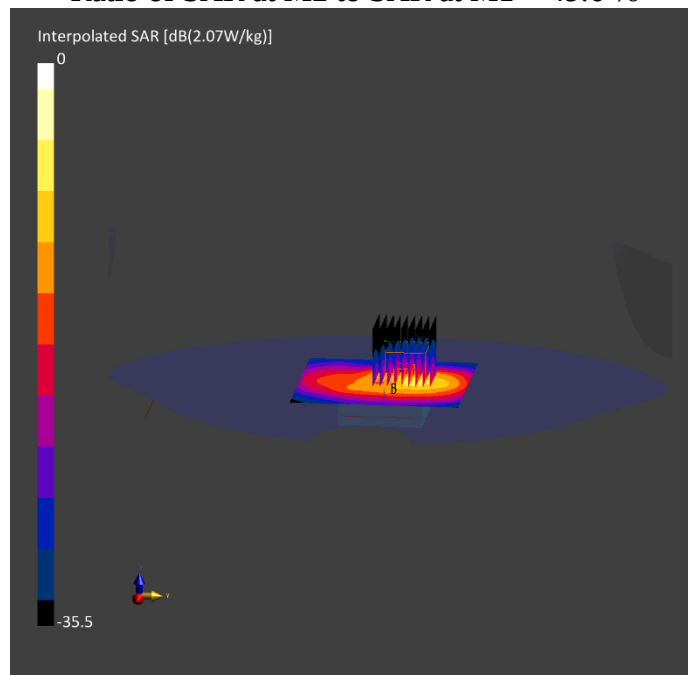
Reference Value = 0.38 W/kg; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(10 g) = 0.175 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.6 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: Y0FVTG9R7P

Communication System: UID:10175 - CAG, LTE-FDD; MAIA: Y; Frequency: 836.5 MHz

Medium: 835 Body Medium parameters used:

$f = 836.5$ MHz; $\text{cond} = 0.96$ S/m; $\text{perm} = 53.3$; $\text{density} = 1000$ kg/m³

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/09/2021; Ambient Temp: 22.2°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7639; ConvF:(10.53,10.53,10.53); Calibrated: 2021-03-03

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

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

Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2029

Measurement SW: cDASY6 Module SAR V6.14.0.959

**Mode: LTE Band 5, Extremity SAR, Back Side, Mid.ch,
10 MHz Bandwidth, QPSK, 1 RB, 49 RB Offset
Stainless Steel, 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: $dx=4.4$ mm, $dy=4.4$ mm, $dz=1.4$ mm; Graded Ratio: 1.4

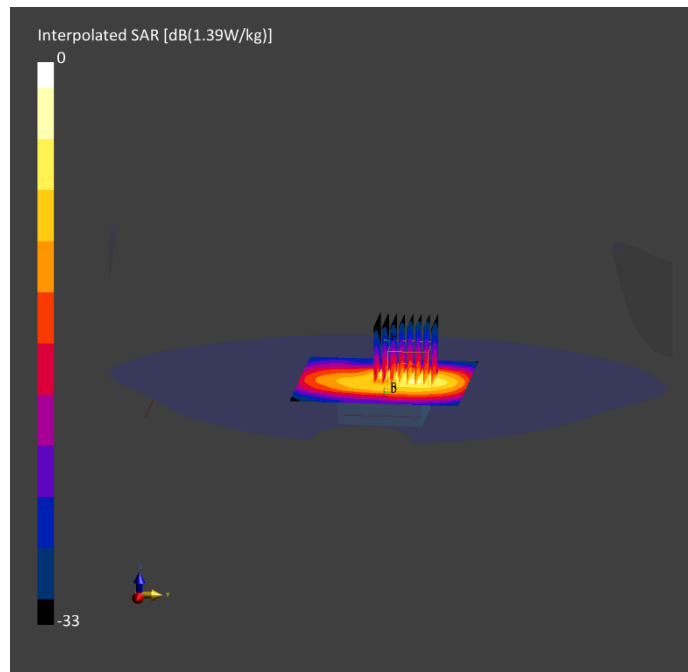
Reference Value = 0.43 W/kg; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(10 g) = 0.198 W/kg

Smallest distance from peaks to all points 3 dB below is 5.0 mm

Ratio of SAR at M2 to SAR at M1 = 58.9 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: F6V95V9GW9

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

Frequency: 1720 MHz

Medium: 1750 MHz Body Medium parameters used:

$f = 1720$ MHz; $\sigma = 1.438$ S/m; $\epsilon_r = 53.85$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06/18/2021; Ambient Temp: 21.7°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7639; ConvF(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
Aluminum, Sport Wristband**

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

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

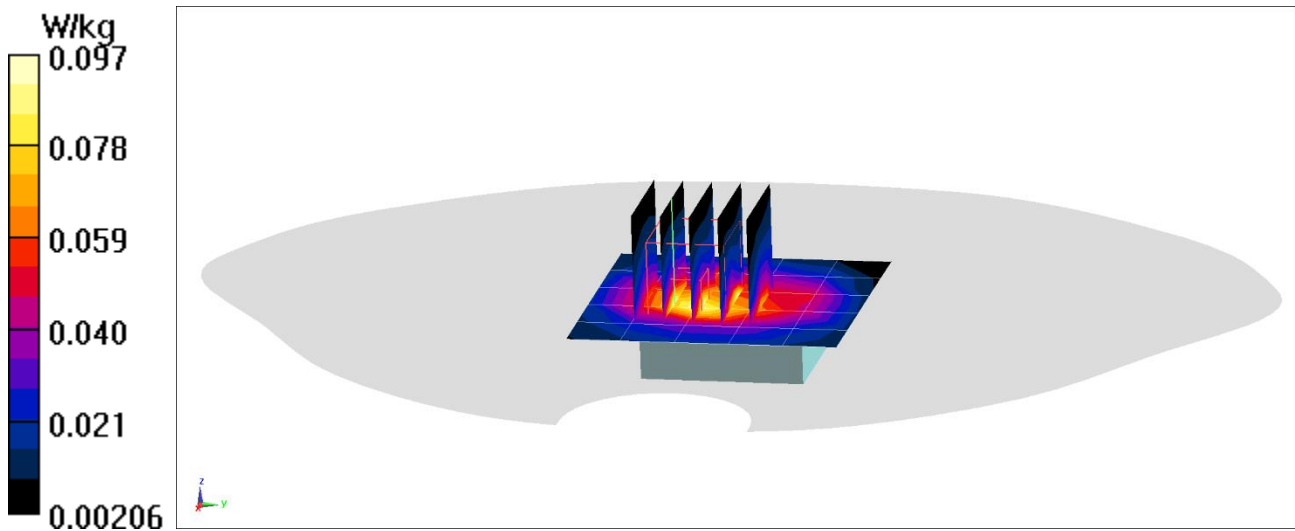
Reference Value = 6.892 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.129 W/kg

SAR(10 g) = 0.037 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.6%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: V9NKJWQ939

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

Frequency: 1860 MHz

Medium: 1900 Body Medium parameters used:

$f = 1860$ MHz; $\sigma = 1.531$ S/m; $\epsilon_r = 51.909$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 06/20/2021; Ambient Temp: 22.4°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7640; ConvF(9.06, 9.06, 9.06) @ 1860 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, Low.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 RB Offset
Aluminum, Sport Wristband**

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

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

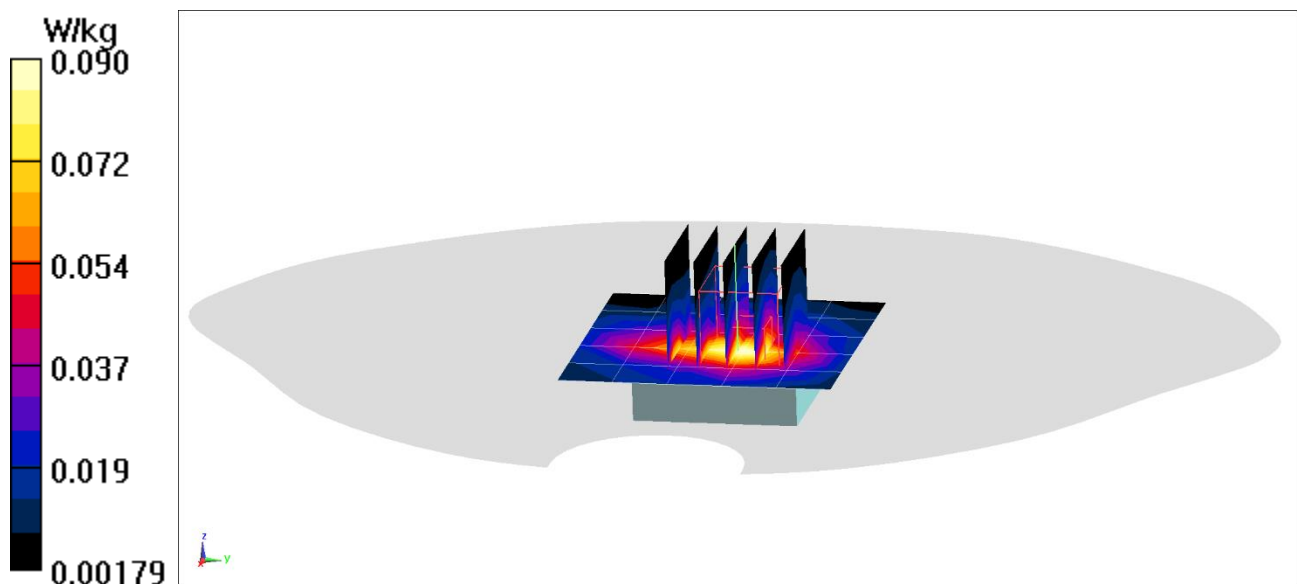
Reference Value = 6.879 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.109 W/kg

SAR(10 g) = 0.035 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.9%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: LCF42X76Q4

Communication System: UID:10169 - CAE, LTE-FDD; MAIA: Y; Frequency: 2560.0 MHz

Medium: 2450 Body Medium parameters used:

$f = 2560.0$ MHz; $\text{cond} = 2.12$ S/m; $\text{perm} = 52.7$; $\text{density} = 1000$ 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; ConvF:(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 7, Extremity SAR, Back Side, High.ch,
20 MHz Bandwidth, QPSK, 1 RB, 99 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

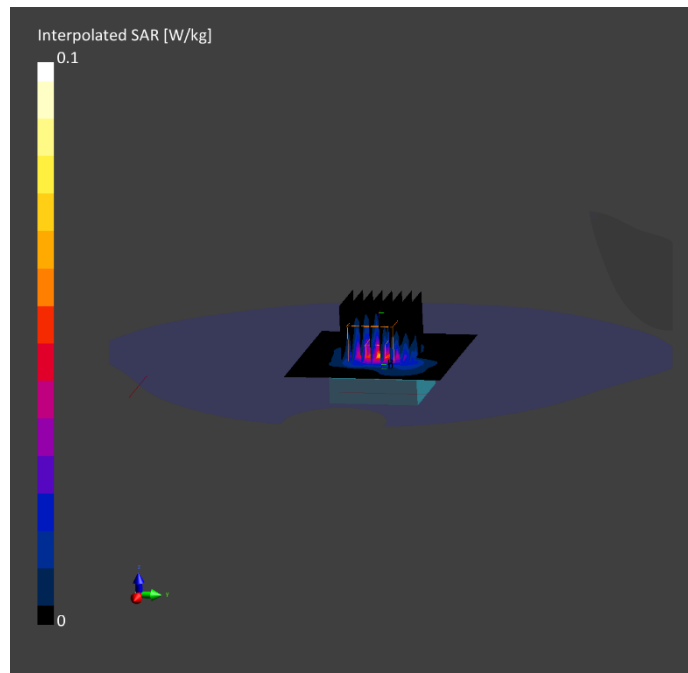
Reference Value = 0.06 W/kg; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.1 W/kg

SAR(10 g) = 0.021 W/kg

Smallest distance from peaks to all points 3 dB below is > 15.0 mm

Ratio of SAR at M2 to SAR at M1 = 91.3 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: LCF42X76Q4

Communication System: UID:10435-AAF, LTE-TDD; MAIA: Y; Frequency: 2593.0 MHz

Medium: 2450 Body Medium parameters used:

$f = 2593.0$ MHz; $\text{cond} = 2.15$ S/m; $\text{perm} = 52.6$; $\text{density} = 1000$ 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; ConvF:(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, Mid.ch,
20 MHz Bandwidth, QPSK, 1 RB, 50 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

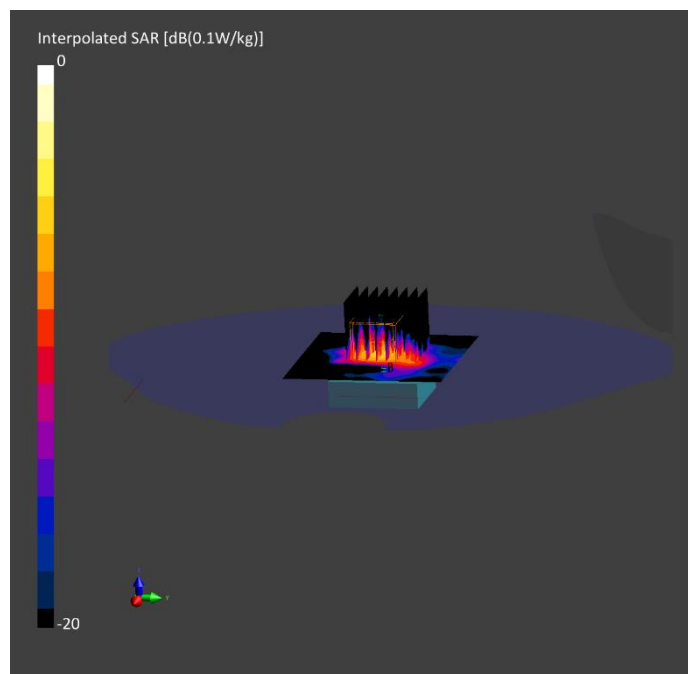
Reference Value = 0.03 W/kg; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 0.1 W/kg

SAR(10 g) = 0.007 W/kg

Smallest distance from peaks to all points 3 dB below is > 15.0 mm

Ratio of SAR at M2 to SAR at M1 = 91.6 %



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: HCVQM9TR29

Communication System: UID 10012 - CAB, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps);

Frequency: 2462 MHz

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2462 \text{ MHz}$; $\sigma = 1.969 \text{ S/m}$; $\epsilon_r = 51.507$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/09/2021; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7420; ConvF(7.52, 7.52, 7.52) @ 2462 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 81923

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, Sport Wristband**

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

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

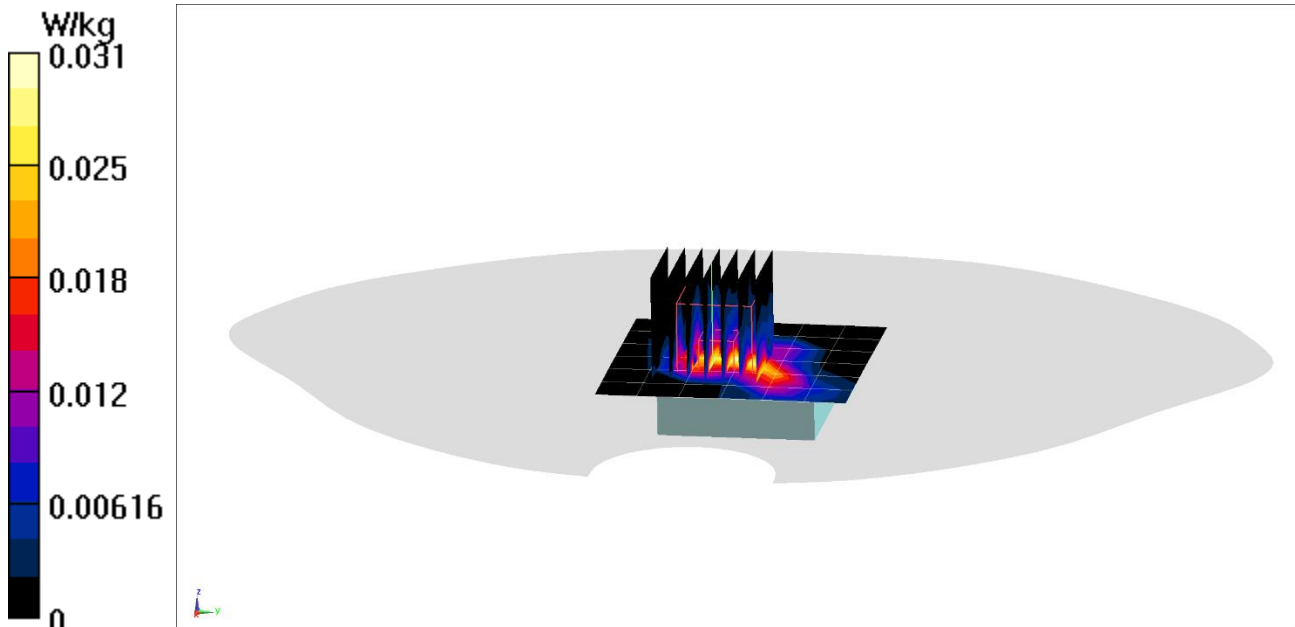
Reference Value = 3.708 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.0620 W/kg

SAR(10 g) = 0.00799 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.8%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: QFYYQKQ3WQ

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

Frequency: 5600 MHz

Medium: 5GHz Body Medium parameters used:

$f = 5600$ MHz; $\sigma = 5.832$ S/m; $\epsilon_r = 46.355$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

Test Date: 08/15/2021; Ambient Temp: 21.5°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7638; ConvF(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)

**Mode: IEEE 802.11a, UNII-2C, 20 MHz Bandwidth,
Extremity SAR, Ch 120, 6 Mbps, Back Side,
Titanium, Metal Loop Wristband**

Area Scan (9x8x1): Measurement grid: dx=10mm, dy=10mm

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

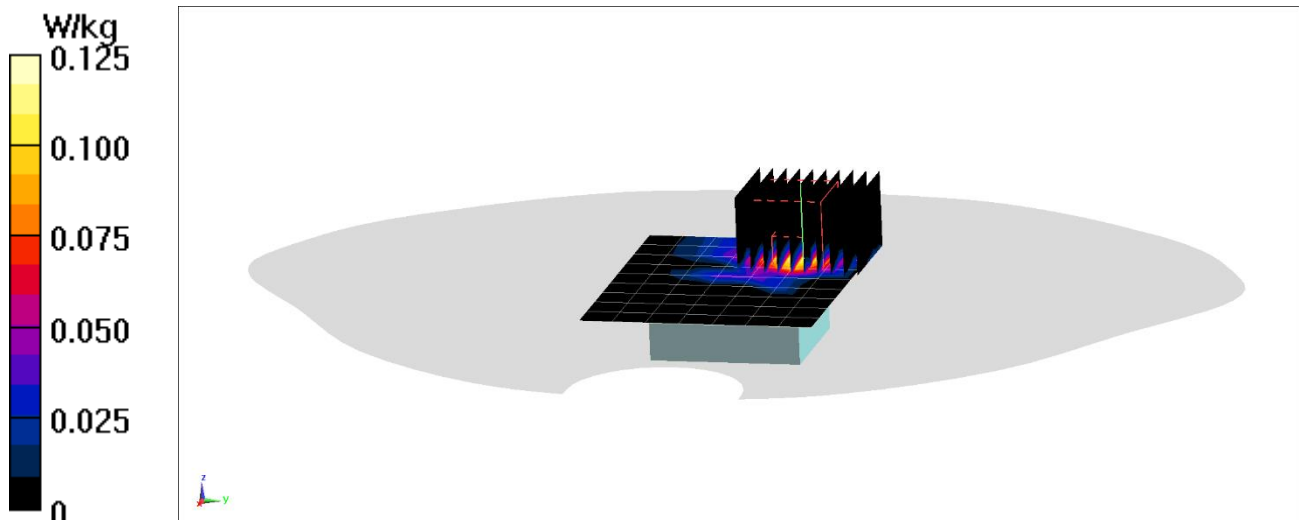
Reference Value = 2.753 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.487 W/kg

SAR(10 g) = 0.016 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%



PCTEST

DUT: BCG-A2477; Type: Watch; Serial: NQ6G9XQ2FT

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

Frequency: 2402 MHz

Medium: 2450 Body Medium parameters used (interpolated):

$f = 2402$ MHz; $\sigma = 1.976$ S/m; $\epsilon_r = 51.182$; $\rho = 1000$ kg/m³

Phantom section: Flat Section; Space: 0.0 cm

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

Probe: EX3DV4 - SN7640; ConvF(8.92, 8.92, 8.92) @ 2402 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 0, 1 Mbps, Back Side
Titanium, Sport Wristband**

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

Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

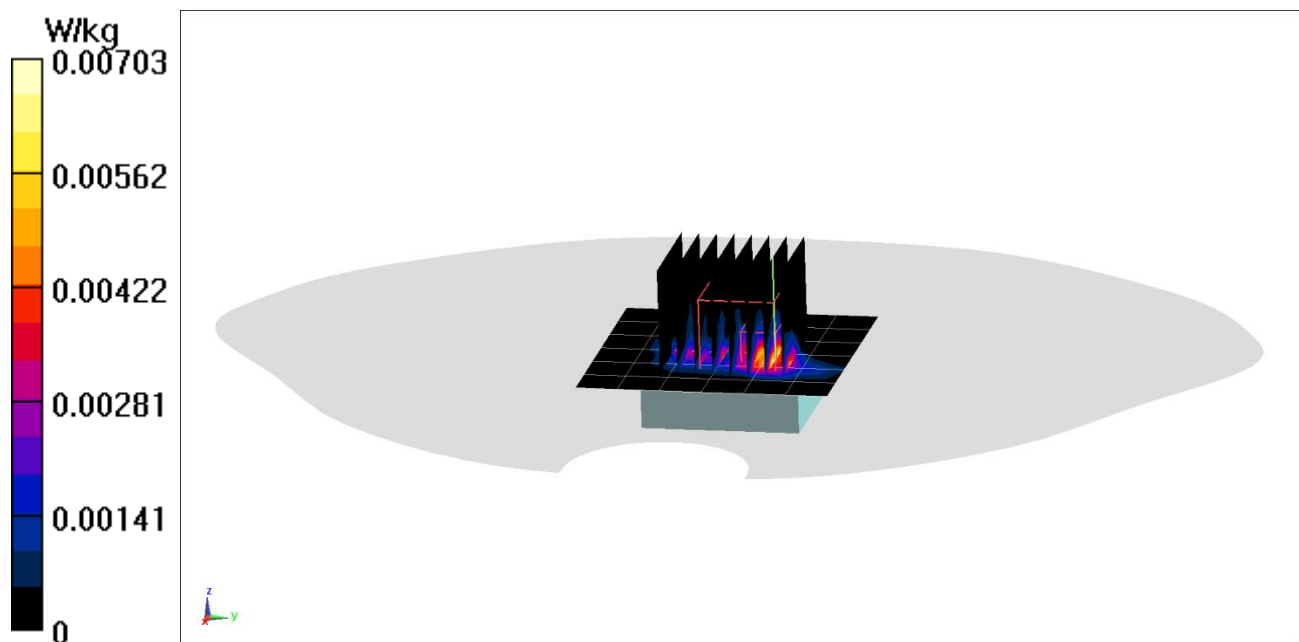
Reference Value = 0.8930 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0110 W/kg

SAR(10 g) = 0.000516 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 37.7%



APPENDIX B: SYSTEM VERIFICATION

PCTEST

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

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

Medium: 750 Head Medium parameters used

$f = 750 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 41.626$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/22/2021; Ambient Temp: 22.5°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN3949; ConvF(10.67, 10.67, 10.67) @ 750 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)

750 MHz System Verification at 23.0 dBm (200 mW)

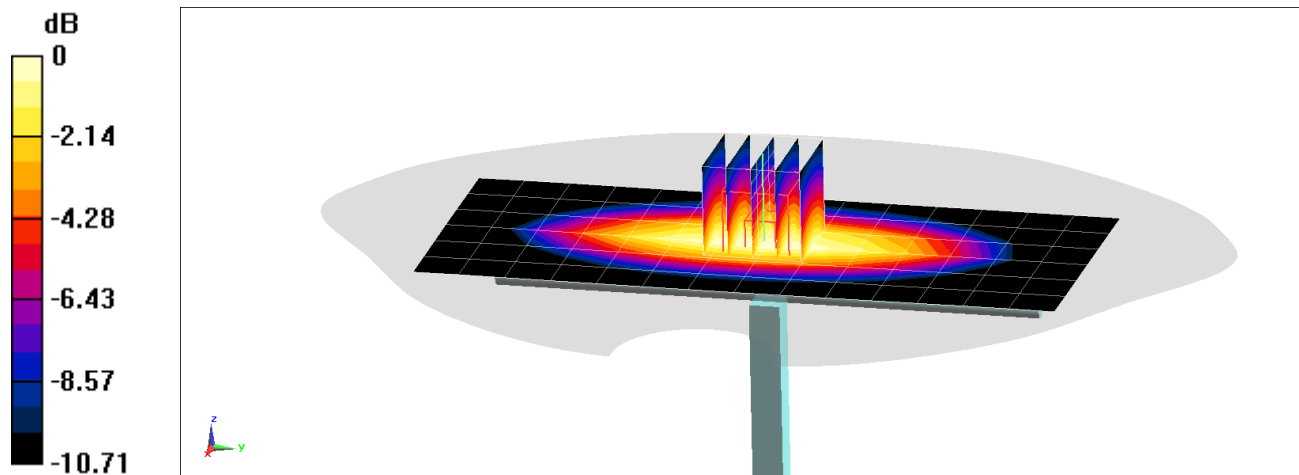
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 2.61 W/kg

SAR(1 g) = 1.73 W/kg

Deviation(1 g) = 5.36%



PCTEST

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

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

Medium: 750 Head Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.893 \text{ S/m}$; $\epsilon_r = 41.917$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/24/2021; Ambient Temp: 23.4°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7421; ConvF(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; 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)

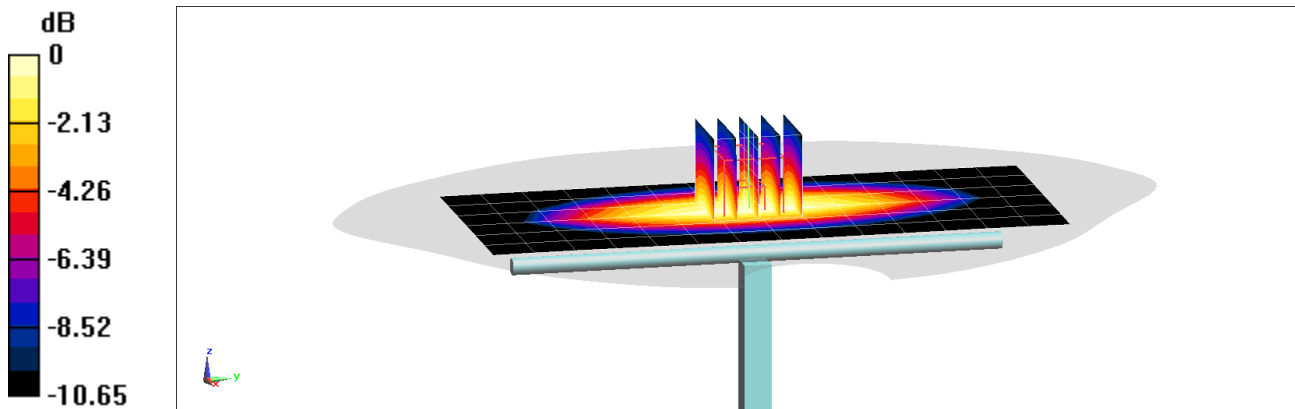
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 2.57 W/kg

SAR(1 g) = 1.73 W/kg

Deviation(1 g) = 5.36%



0 dB = 2.27 W/kg = 3.56 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 Head Medium parameters used:

$f = 750 \text{ MHz}$; $\sigma = 0.907 \text{ S/m}$; $\epsilon_r = 41.025$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 08/12/2021; Ambient Temp: 21.4°C; Tissue Temp: 21.7°C

Probe: EX3DV4 - SN7420; ConvF(10.03, 10.03, 10.03) @ 750 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 81923

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

750 MHz System Verification at 23.0 dBm (200 mW)

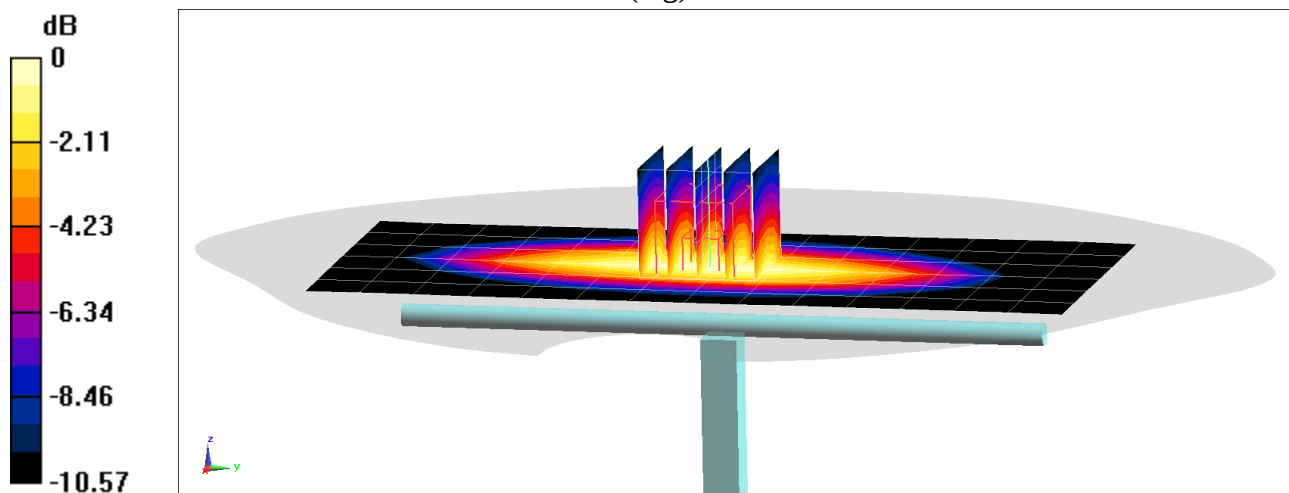
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 2.57 W/kg

SAR(1 g) = 1.7 W/kg

Deviation(1 g) = 3.53%



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

$f = 835 \text{ MHz}$; $\sigma = 0.904 \text{ S/m}$; $\epsilon_r = 42.504$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 08/02/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.1°C

Probe: EX3DV4 - SN7558; ConvF(9.95, 9.95, 9.95) @ 835 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)

835 MHz System Verification at 23.0 dBm (200 mW)

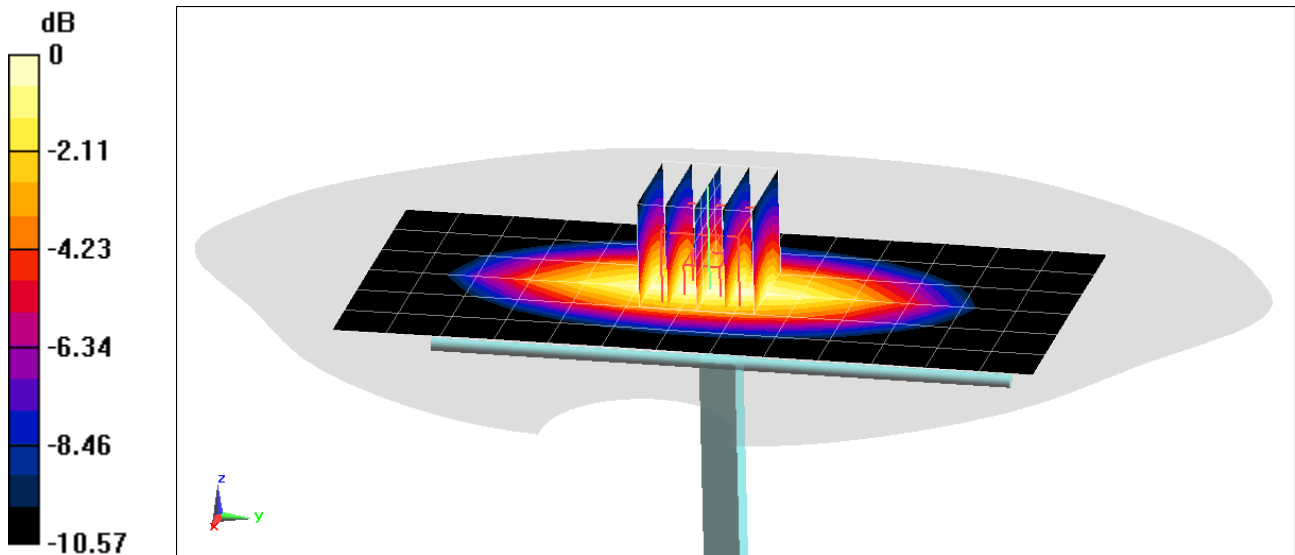
Area Scan (7x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 2.86 W/kg

SAR(1 g) = 1.91 W/kg

Deviation(1 g) = 0.53%



0 dB = 2.54 W/kg = 4.05 dBW/kg

PCTEST

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

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

Medium: 835 Head; Medium parameters used:

$f = 850 \text{ MHz}$; $\sigma = 0.95 \text{ S/m}$; $\epsilon_r = 41.124$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.5 cm

Test Date: 06/27/2021; Ambient Temp: 22.2°C; Tissue Temp: 21.1°C

Probe: EX3DV4 - SN7427; ConvF(9.8, 9.8, 9.8) @ 850 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)

850 MHz System Verification at 23.0 dBm (200 mW)

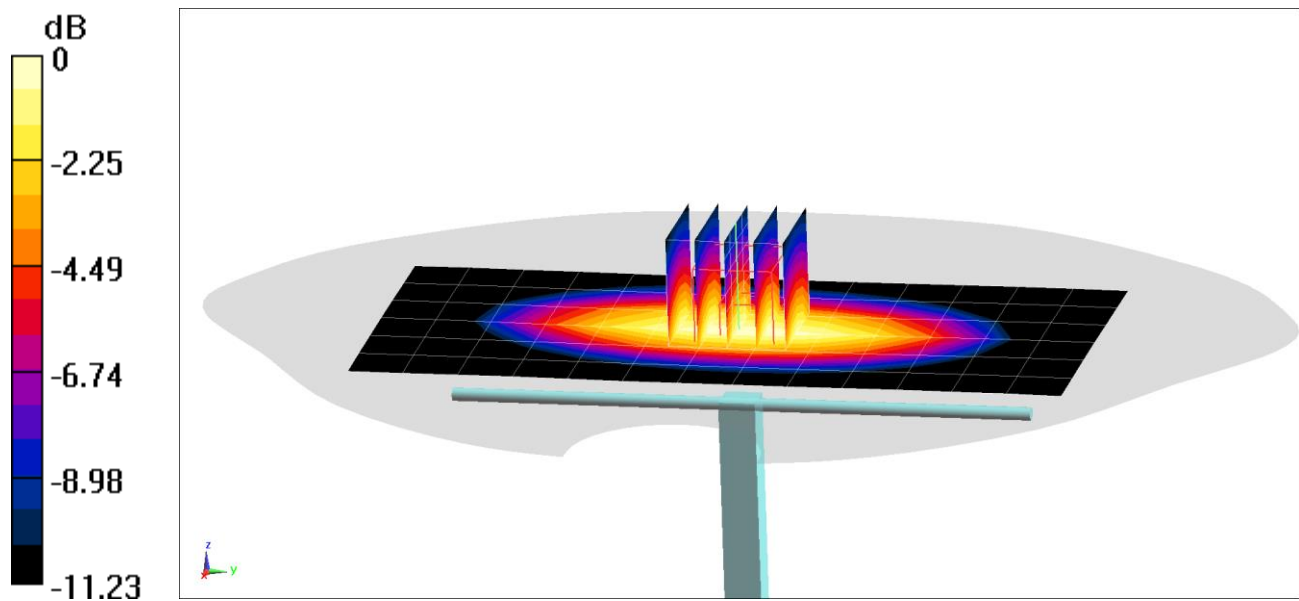
Area Scan (7x14x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 3.04 W/kg

SAR(1 g) = 1.96 W/kg

Deviation(1 g) = -0.41%



0 dB = 2.67 W/kg = 4.27 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:

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

Phantom section: Flat Section; Space: 1.0 cm

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

Probe: EX3DV4 - SN3949; ConvF(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)

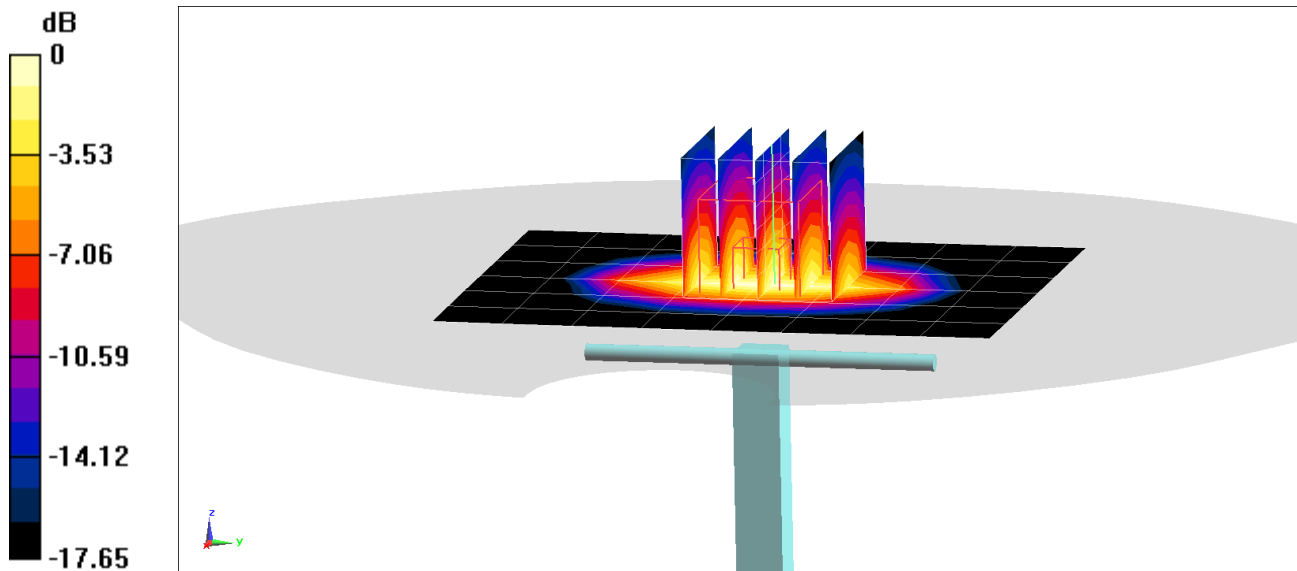
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

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: 1.0 cm

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

Probe: EX3DV4 - SN7640; ConvF(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)

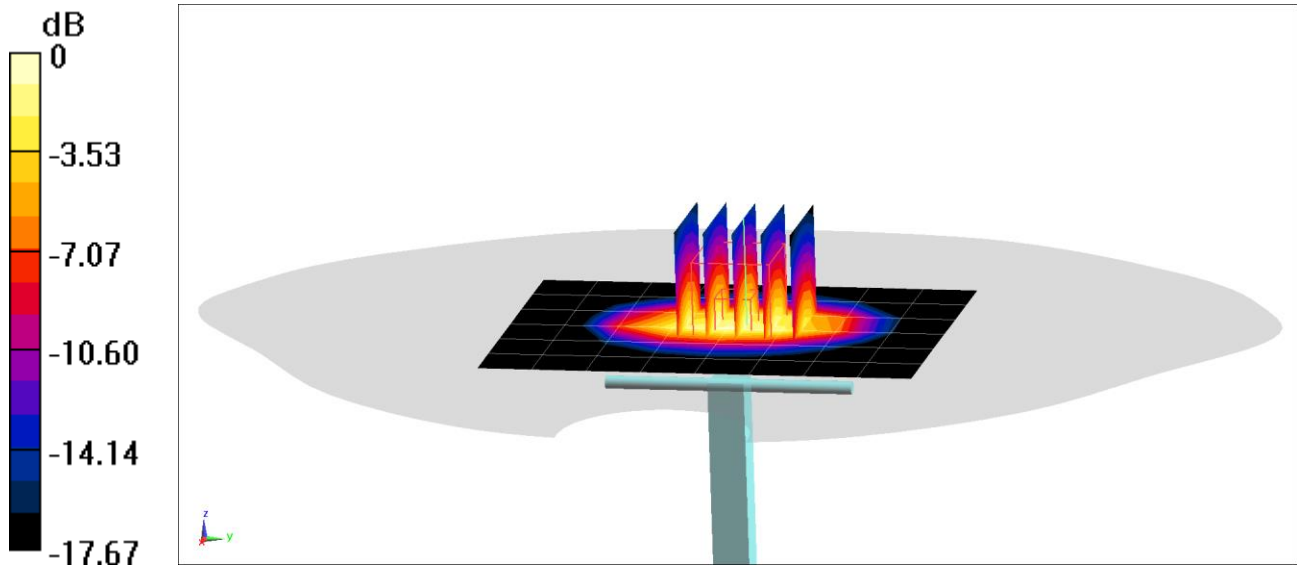
Area Scan (7x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

Peak SAR (extrapolated) = 7.16 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: 5d181

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

Medium: 1900 Head; Medium parameters used:

$f = 1900 \text{ MHz}$; $\sigma = 1.451 \text{ S/m}$; $\epsilon_r = 38.99$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/22/2021; Ambient Temp: 22.9°C; Tissue Temp: 21.6°C

Probe: EX3DV4 - SN7427; ConvF(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)

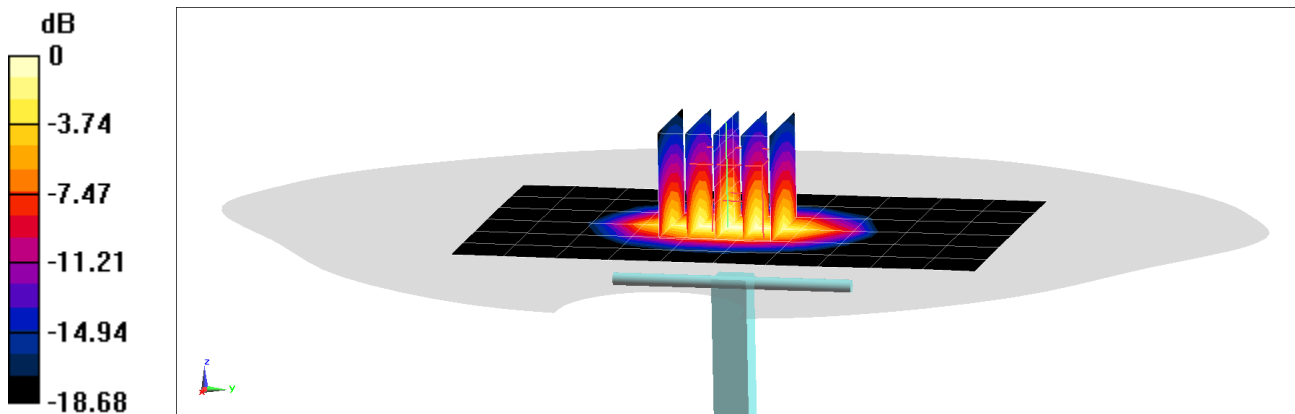
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 8.14 W/kg

SAR(1 g) = 4.28 W/kg

Deviation(1 g) = 6.73%



0 dB = 6.78 W/kg = 8.31 dBW/kg

PCTEST

DUT: Dipole 1900.0 MHz; Type: D1900V2 - SN5d181

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

Test Date: 07/21/2021; Ambient Temp: 23.2°C; Tissue Temp: 22.9°C

Probe: EX3DV4 - SN7639; ConvF:(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

1900.0 MHz System Verification at 20.0 dBm

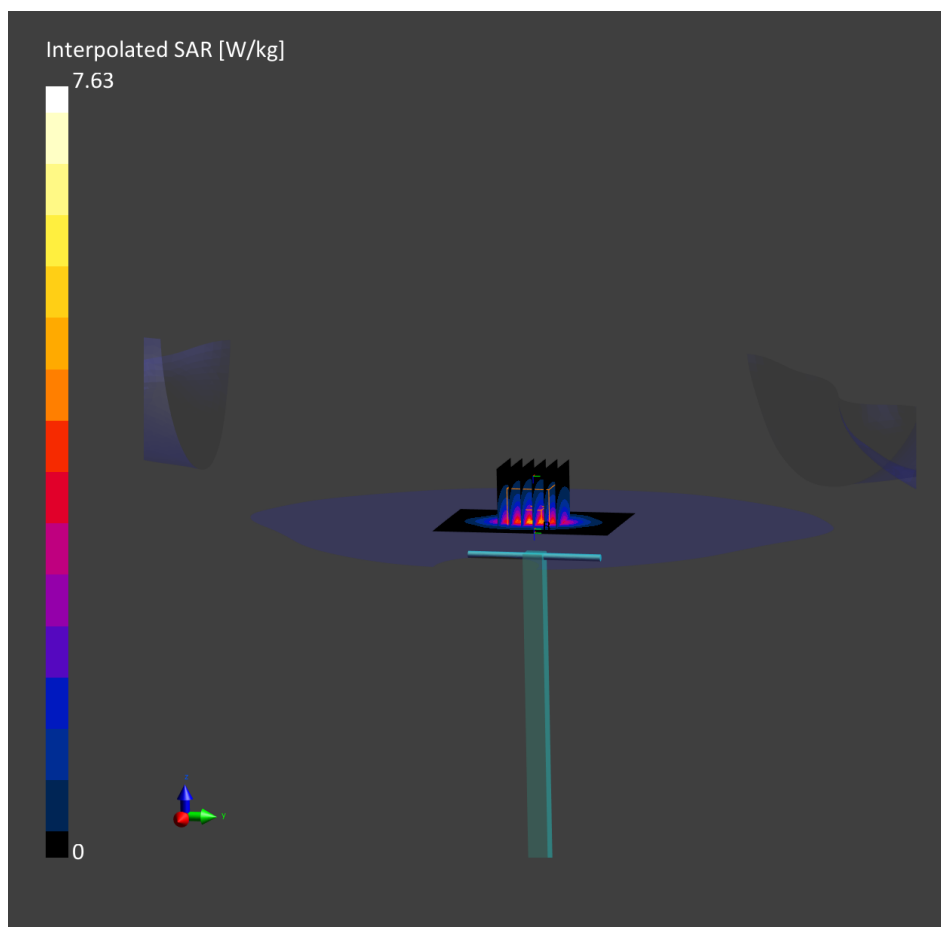
Area Scan (60.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

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 2450.0 MHz; Type: D2450V2 - SN750

Communication System: UID: 0, CW; Frequency: 2450.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2450.0 MHz; cond = 1.84 S/m; perm = 38.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/16/2021; Ambient Temp: 20.7°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3837; ConvF:(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 V5.0; Serial: 1736

Measurement SW: cDASY6 Module SAR V6.14.0.959

2450.0 MHz System Verification at 20.0 dBm

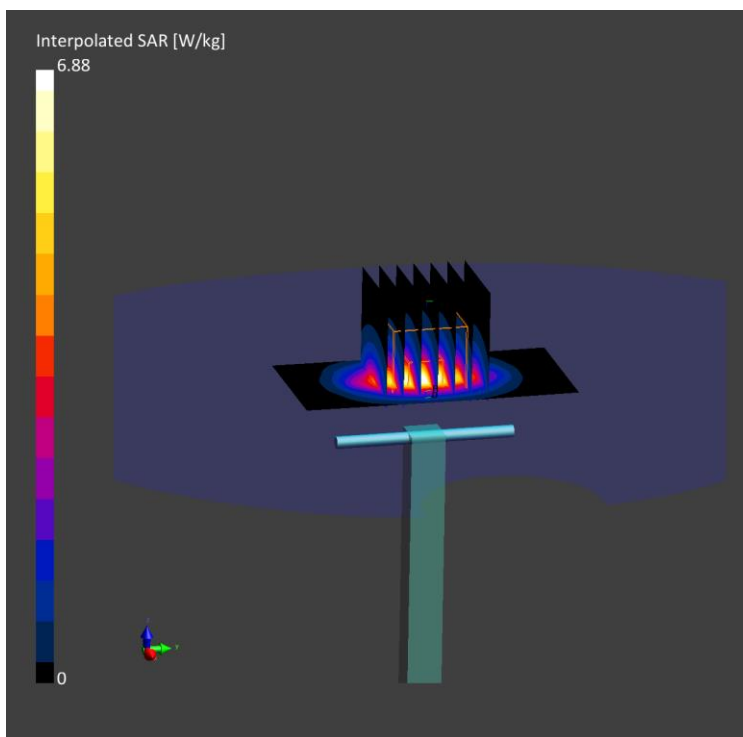
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

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) = 11.6 W/kg

SAR(1 g) = 5.23 W/kg

Deviation (1 g) = -1.51%



PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750

Communication System: UID: 0, CW; Frequency: 2450.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2450.0 MHz; cond = 1.87 S/m; perm = 38.6; density = 1000 kg/m³

Phantom Section: Flat; Space: 10 mm

Test Date: 06/23/2021; Ambient Temp: 21.8°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3837; ConvF:(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 V5.0; Serial: 1736

Measurement SW: cDASY6 Module SAR V6.14.0.959

2450.0 MHz System Verification at 20.0 dBm

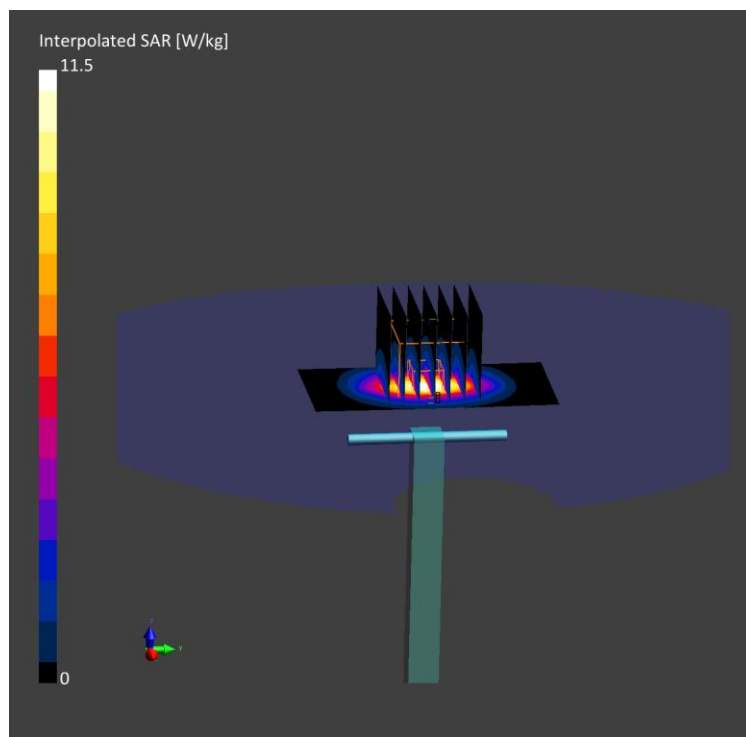
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

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) = 11.5 W/kg

SAR(1 g) = 5.20 W/kg

Deviation (1 g) = -2.07%



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; ConvF(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)

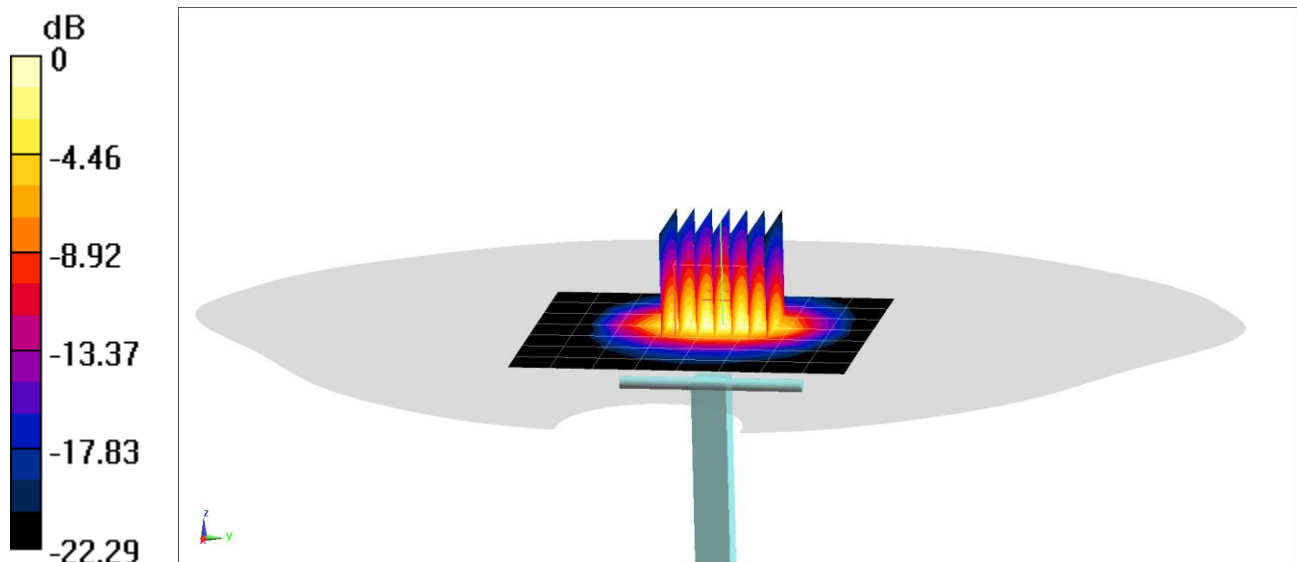
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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%



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

$f = 2450 \text{ MHz}$; $\sigma = 1.8 \text{ S/m}$; $\epsilon_r = 40.41$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/09/2021; Ambient Temp: 22.7°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7558; ConvF(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)

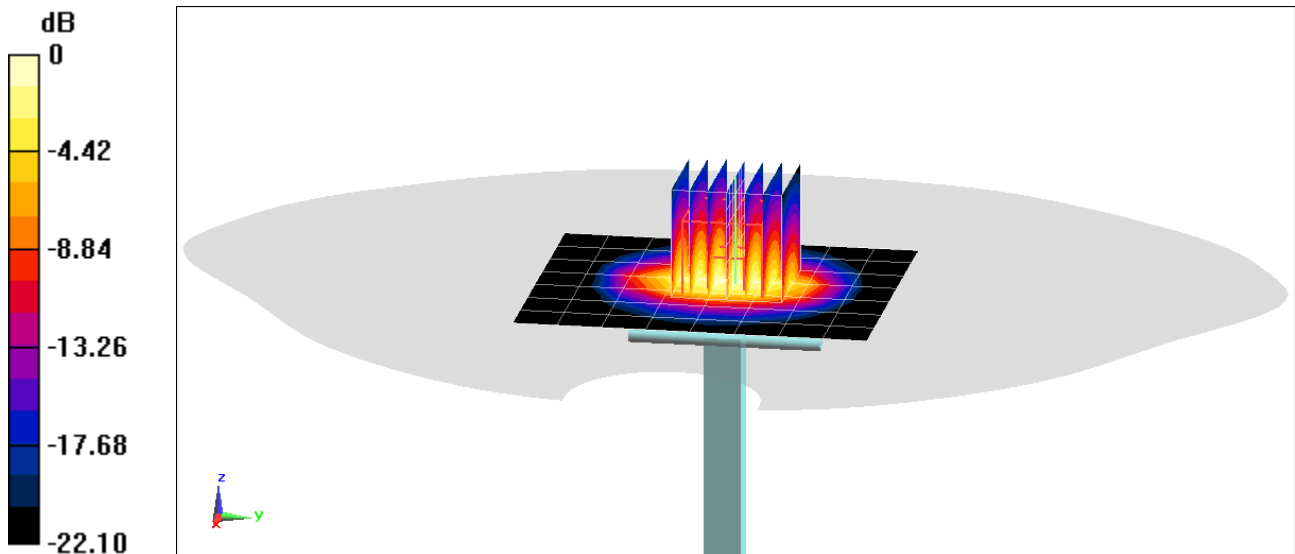
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 5.13 W/kg

Deviation(1 g) = -3.39%



0 dB = 8.56 W/kg = 9.32 dBW/kg

PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1042

Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.0 MHz; cond = 2.01 S/m; perm = 38.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 06/16/2021; Ambient Temp: 20.7°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN3837; ConvF:(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 V5.0; Serial: 1736
Measurement SW: cDASY6 Module SAR V6.14.0.959

2600.0 MHz System Verification at 20.0 dBm

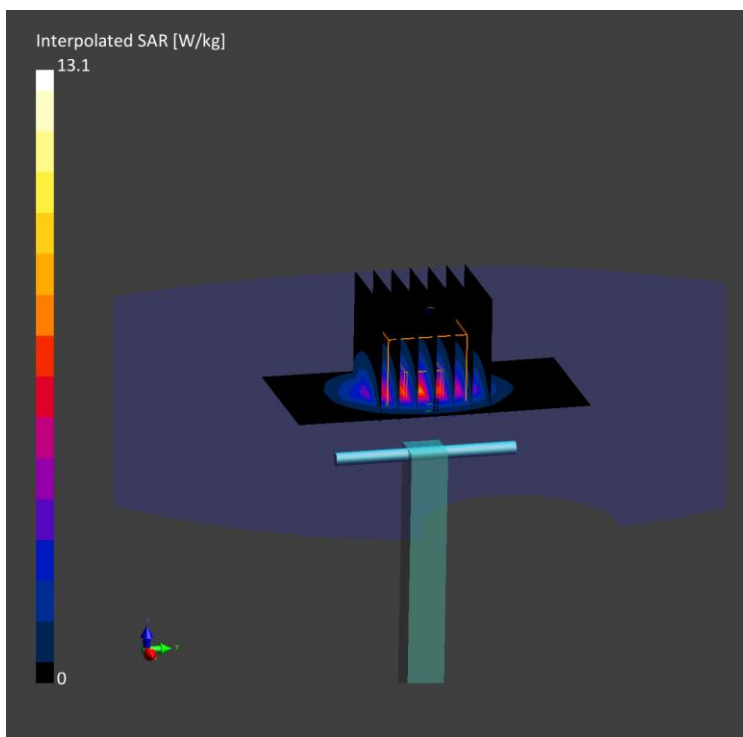
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

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) = 13.1 W/kg

SAR(1 g) = 5.79 W/kg

Deviation (1 g) = 0.35%



PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1042

Communication System: UID: 0, CW; Frequency: 2600.0 MHz
Medium: 2450 Head; Medium parameters used:
f = 2600.0 MHz; cond = 2.03 S/m; perm = 38.1; density = 1000 kg/m³
Phantom Section: Flat; Space: 10 mm

Test Date: 06/23/2021; Ambient Temp: 21.8°C; Tissue Temp: 20.6°C

Probe: EX3DV4 - SN3837; ConvF:(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 V5.0; Serial: 1736
Measurement SW: cDASY6 Module SAR V6.14.0.959

2600.0 MHz System Verification at 20.0 dBm

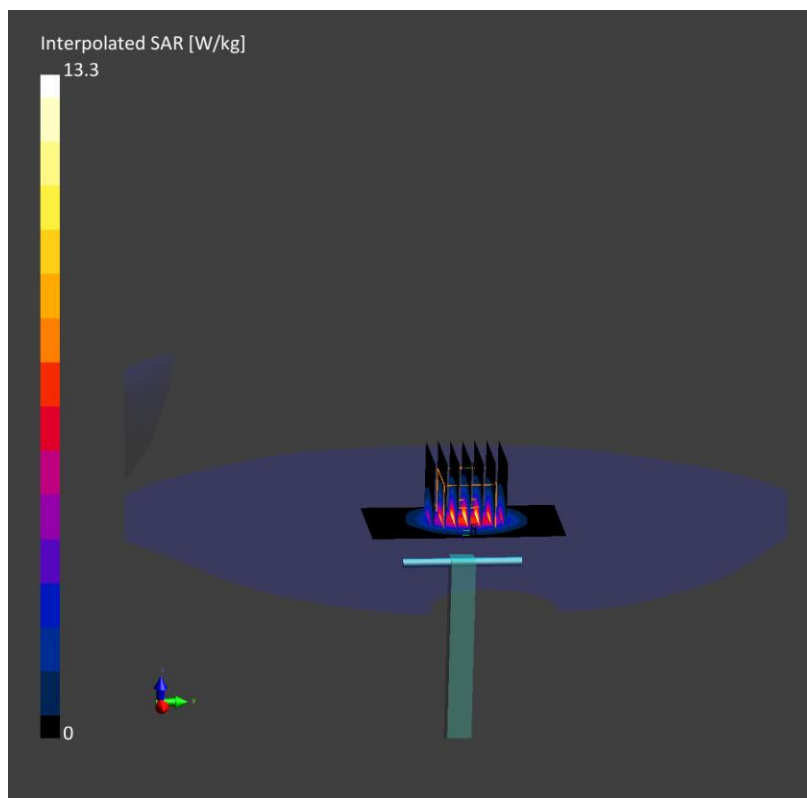
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0mm, dy=10.0mm

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) = 13.3 W/kg

SAR(1 g) = 5.90 W/kg

Deviation (1 g) = 2.25%



PCTEST

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

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

Medium: 5 GHz Head Medium parameters used

$f = 5250 \text{ MHz}$; $\sigma = 4.586 \text{ S/m}$; $\epsilon_r = 36.459$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07/27/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7558; ConvF(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)

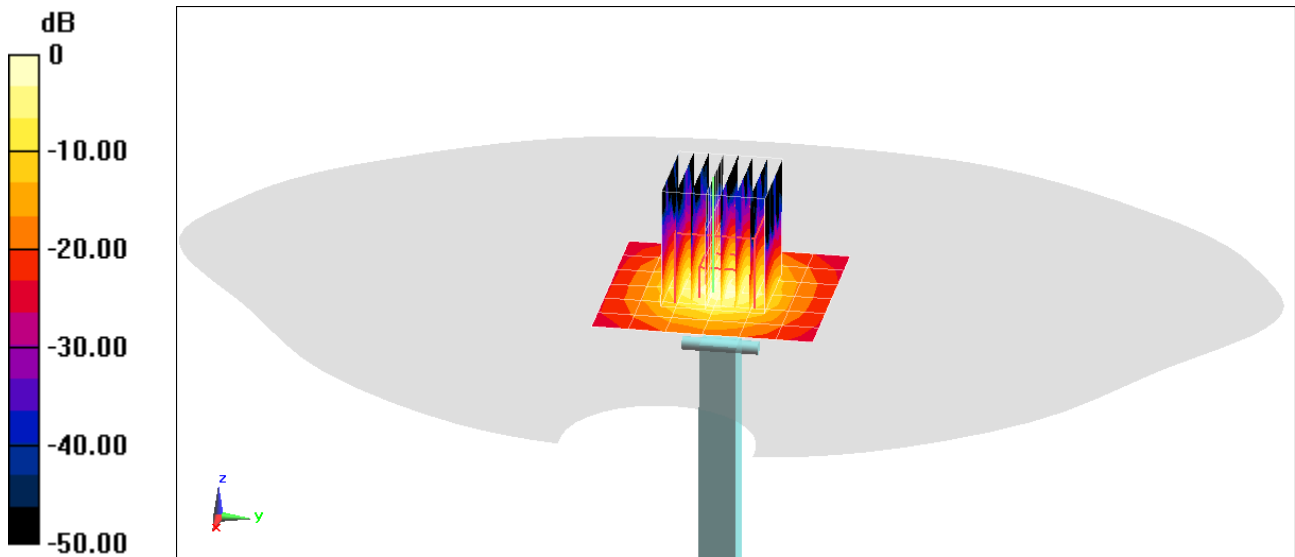
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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

Peak SAR (extrapolated) = 15.0 W/kg

SAR(1 g) = 3.81 W/kg

Deviation(1 g) = -7.30%



0 dB = 8.94 W/kg = 9.51 dBW/kg

PCTEST

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

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

Medium: 5GHz Head Medium parameters used

$f = 5600 \text{ MHz}$; $\sigma = 5.005 \text{ S/m}$; $\epsilon_r = 35.886$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07/27/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7558; ConvF(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)

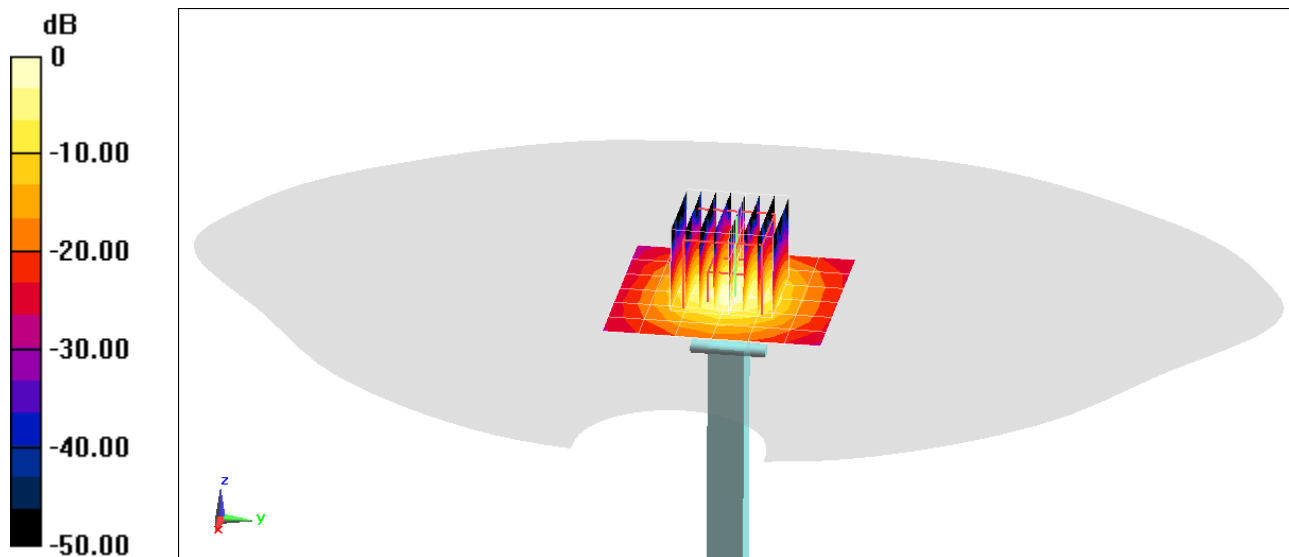
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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

Peak SAR (extrapolated) = 17.8 W/kg

SAR(1 g) = 4.14 W/kg

Deviation(1 g) = -2.01%



0 dB = 9.95 W/kg = 9.98 dBW/kg

PCTEST

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

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

Medium: 5GHz Head Medium parameters used

$f = 5750 \text{ MHz}$; $\sigma = 5.162 \text{ S/m}$; $\epsilon_r = 35.617$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 07/27/2021; Ambient Temp: 22.9°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7558; ConvF(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)

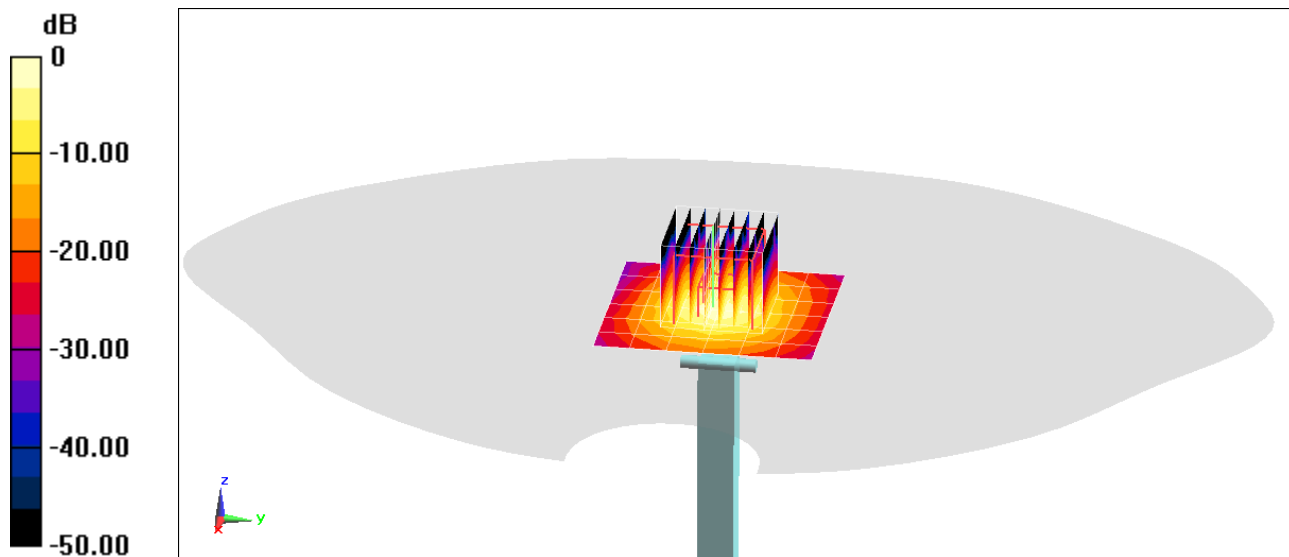
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 3.78 W/kg

Deviation(1 g) = -7.01%



0 dB = 9.19 W/kg = 9.63 dBW/kg

PCTEST

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1097

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 = 54.2; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 06/26/2021; Ambient Temp: 22.9°C; Tissue Temp: 20.0°C

Probe: EX3DV4 - SN7416; ConvF:(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

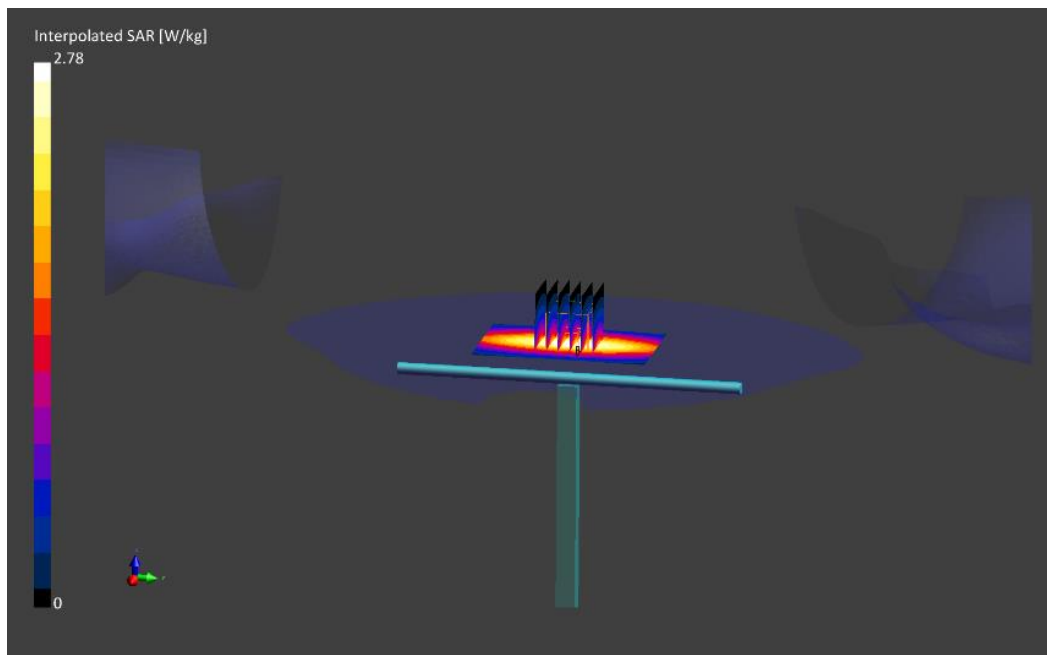
Area Scan (60.0 x 90.0): Measurement grid: dx=15.0mm, dy=15.0mm

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) = 2.78 W/kg

SAR (10 g) = 1.19 W/kg

Deviation (10 g) = 6.25%



PCTEST

DUT: Dipole 750.0 MHz; Type: D750V3 - SN1097

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

Medium: 750 Body; Medium parameters used:

f = 750.0 MHz; Cond = 0.99 S/m; perm = 52.9; density = 1000 kg/m³

Phantom Section: Flat; Space: 15 mm

Test Date: 06/30/2021; Ambient Temp: 22.5°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7416; ConvF:(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

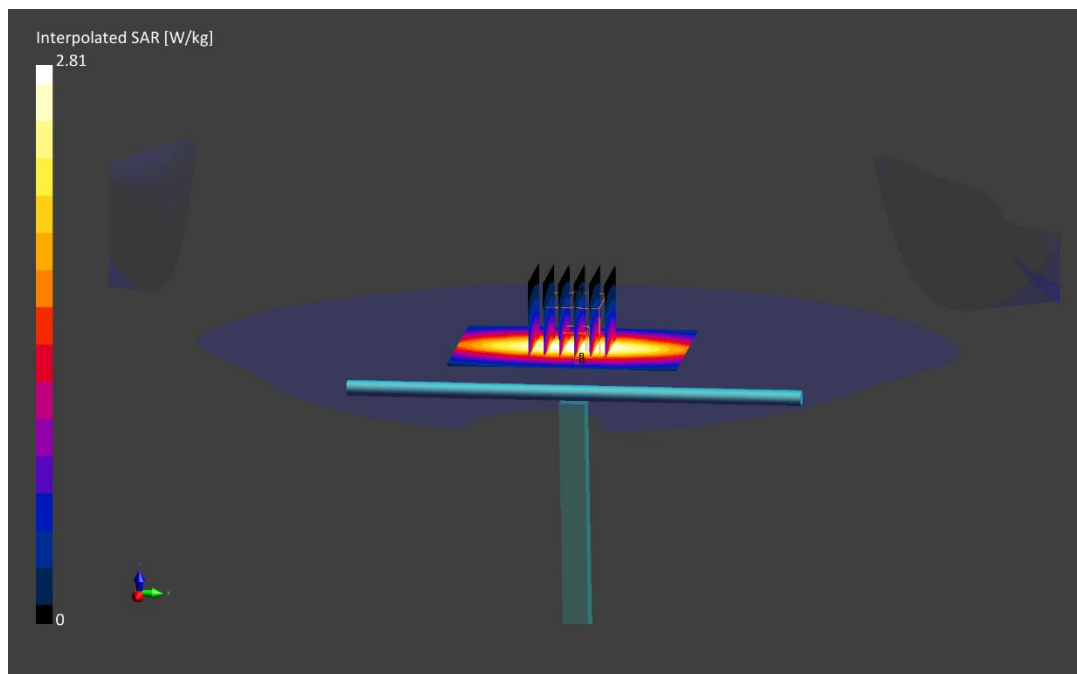
Area Scan (60.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

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) = 2.81 W/kg

SAR (10 g) = 1.18 W/kg

Deviation (10 g) = 5.36%



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: 1.5 cm

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

Probe: EX3DV4 - SN7416; ConvF(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; 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)

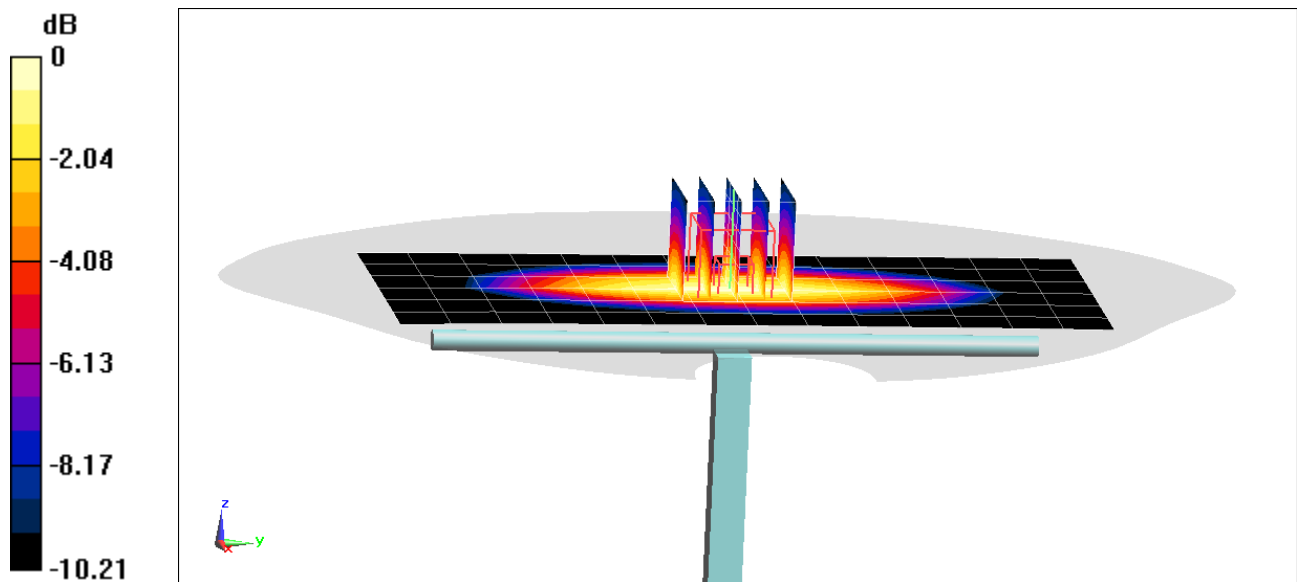
Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm

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%



0 dB = 2.30 W/kg = 3.62 dBW/kg

PCTEST

DUT: Dipole 835.0 MHz; Type: D835V2 - SN4d040

Communication System: UID: 0, CW; Frequency: 835.0 MHz
Medium: 835 Body; Medium parameters used:
f = 835.0 MHz; cond = 0.95 S/m; perm = 53.3; density = 1000 kg/m³
Phantom Section: Flat; Space: 15 mm

Test Date: 08/09/2021; Ambient Temp: 22.2°C; Tissue Temp: 20.3°C

Probe: EX3DV4 - SN7639; ConvF:(10.53,10.53,10.53); 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

835.0 MHz System Verification at 23.0 dBm

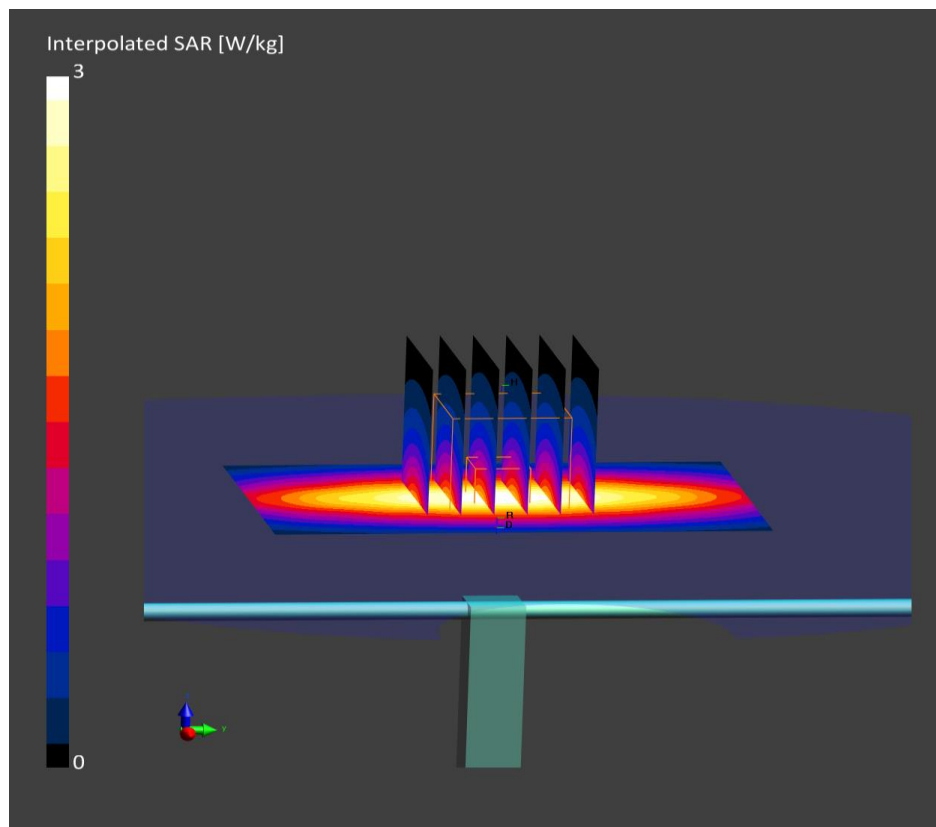
Area Scan (60.0 x 90.0): Measurement grid: dx=15.0 mm, dy=15.0 mm

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) = 3.0 W/kg

SAR(10 g) = 1.23 W/kg

Deviation (10 g) = -1.44%



PCTEST

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

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

Medium: 1750 MHz Body Medium parameters used:

$f = 1750 \text{ MHz}$; $\sigma = 1.459 \text{ S/m}$; $\epsilon_r = 53.842$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/18/2021; Ambient Temp: 21.7°C; Tissue Temp: 20.5°C

Probe: EX3DV4 - SN7639; ConvF(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)

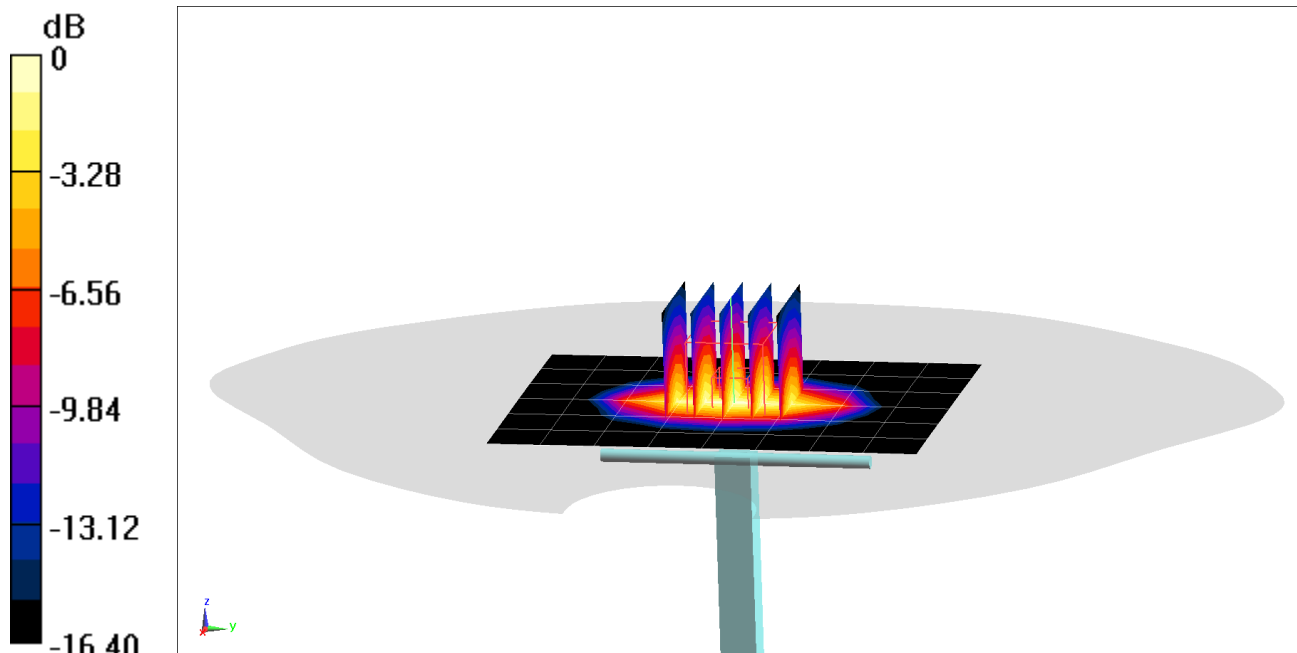
Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 6.23 W/kg

SAR(10 g) = 1.89 W/kg

Deviation(10 g) = -4.06%



0 dB = 5.34 W/kg = 7.28 dBW/kg

PCTEST

DUT: Dipole 1750.0 MHz; Type: D1750V2 - SN1083

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

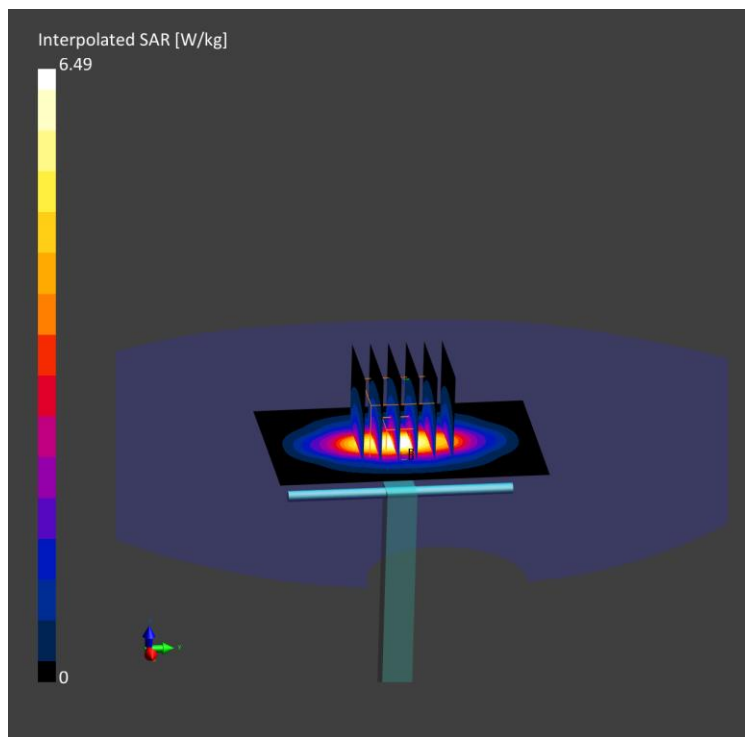
Probe: EX3DV4 - SN7639; ConvF:(9.29,9.29,9.29); Calibrated: 2021-03-03
Sensor-Surface: 1.4mm (VMS + 6p)
Electronics: DAE4 Sn1646; Calibrated: 2021-01-11
Phantom: Twin-SAM V8.0; Serial: 2029
Measurement SW: cDASY6 Module SAR V6.14.0.959

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:

$f = 1900 \text{ MHz}$; $\sigma = 1.575 \text{ S/m}$; $\epsilon_r = 51.748$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/20/2021; Ambient Temp: 22.4°C; Tissue Temp: 22.0°C

Probe: EX3DV4 - SN7640; ConvF(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)

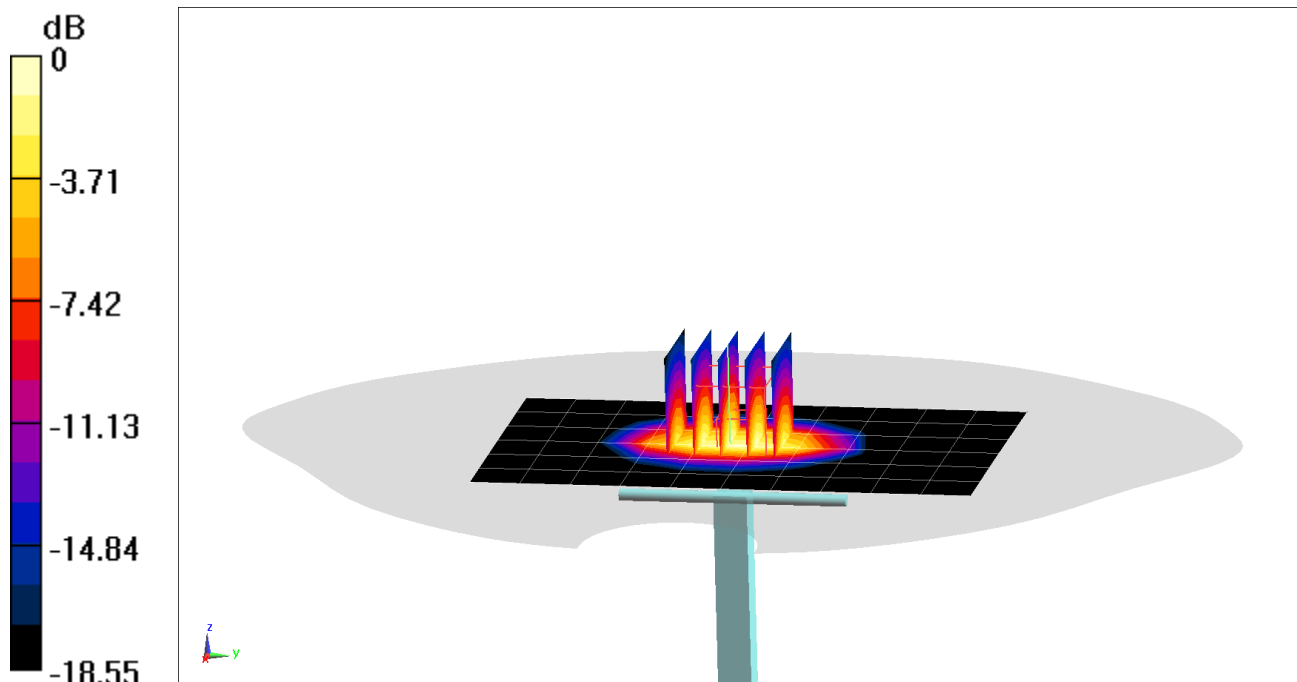
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 7.81 W/kg

SAR(10 g) = 2.18 W/kg

Deviation(10 g) = 3.32%



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:

$f = 1900 \text{ MHz}$; $\sigma = 1.585 \text{ S/m}$; $\epsilon_r = 53.72$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 06/28/2021; Ambient Temp: 22.7°C; Tissue Temp: 21.4°C

Probe: EX3DV4 - SN7640; ConvF(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)

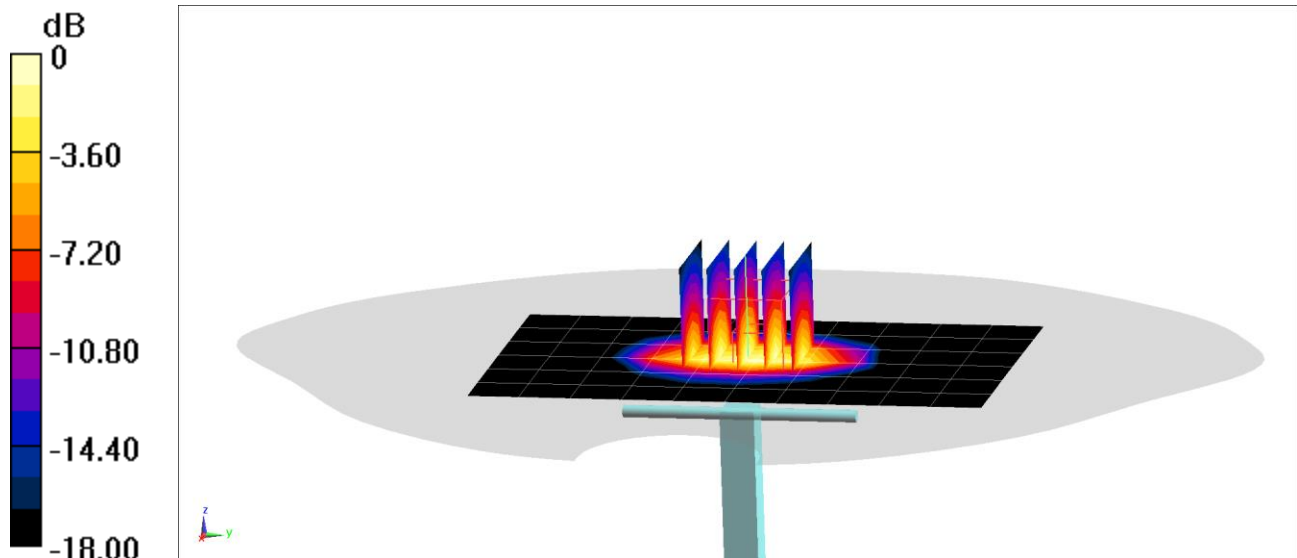
Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Peak SAR (extrapolated) = 7.66 W/kg

SAR(10 g) = 2.15 W/kg

Deviation(10 g) = 1.90%



0 dB = 6.42 W/kg = 8.08 dBW/kg

PCTEST

DUT: Dipole 2450.0 MHz; Type: D2450V2 - SN750

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; ConvF:(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

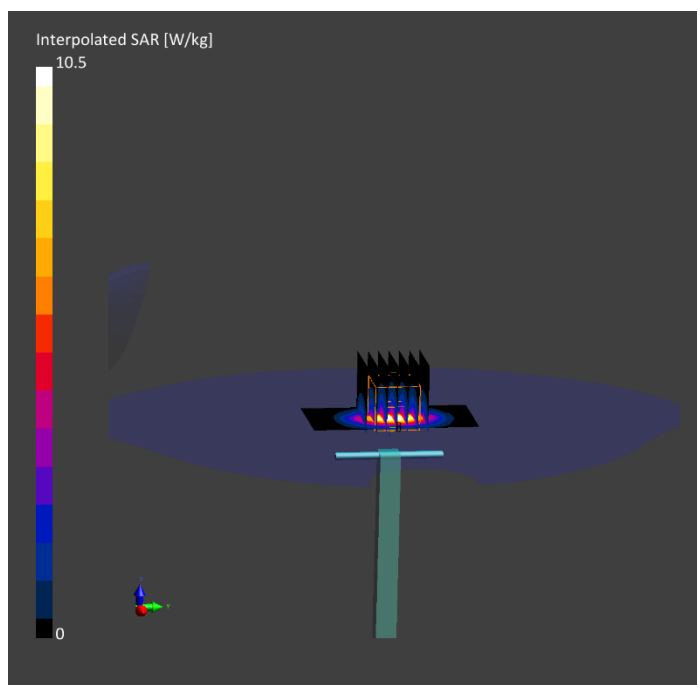
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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: 1.0 cm

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

Probe: EX3DV4 - SN7640; ConvF(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)

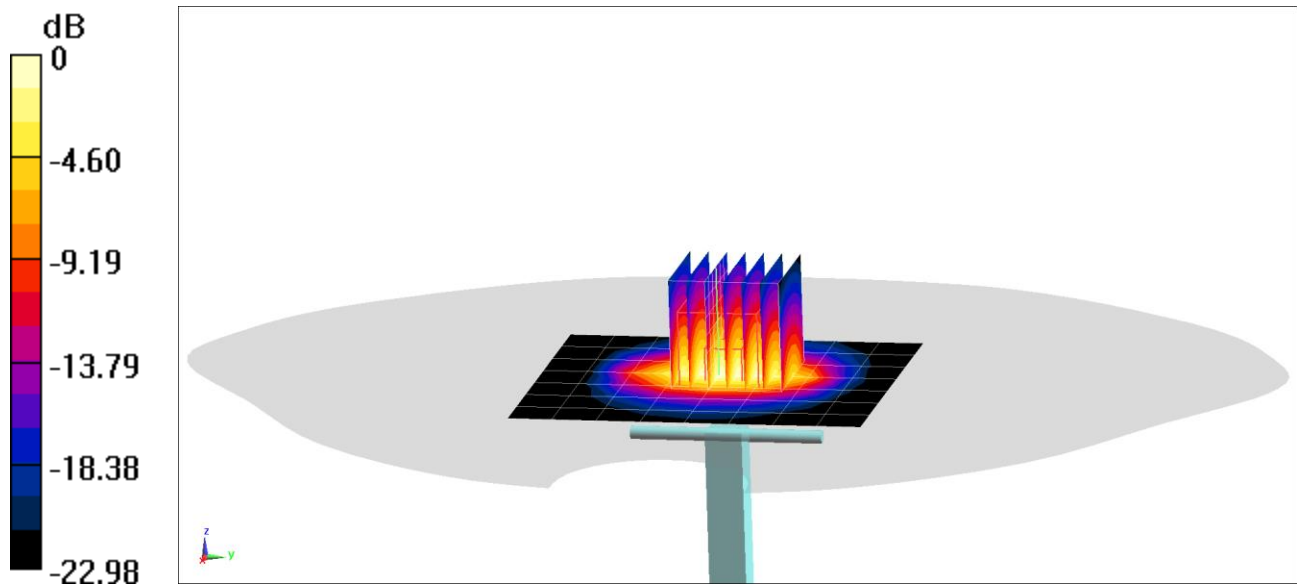
Area Scan (8x9x1): Measurement grid: $dx=12\text{mm}$, $dy=12\text{mm}$

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

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 2450 MHz; Type: D2450V2; Serial: 750

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

Medium: 2450 Body Medium parameters used:

$f = 2450 \text{ MHz}$; $\sigma = 1.958 \text{ S/m}$; $\epsilon_r = 51.527$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/09/2021; Ambient Temp: 22.5°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7420; ConvF(7.52, 7.52, 7.52) @ 2450 MHz; Calibrated: 10/21/2020

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1213; Calibrated: 10/12/2020

Phantom: Twin-SAM V4.0; Type: QD 000 P40 CC; Serial: 81923

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

2450 MHz System Verification at 20.0 dBm (100 mW)

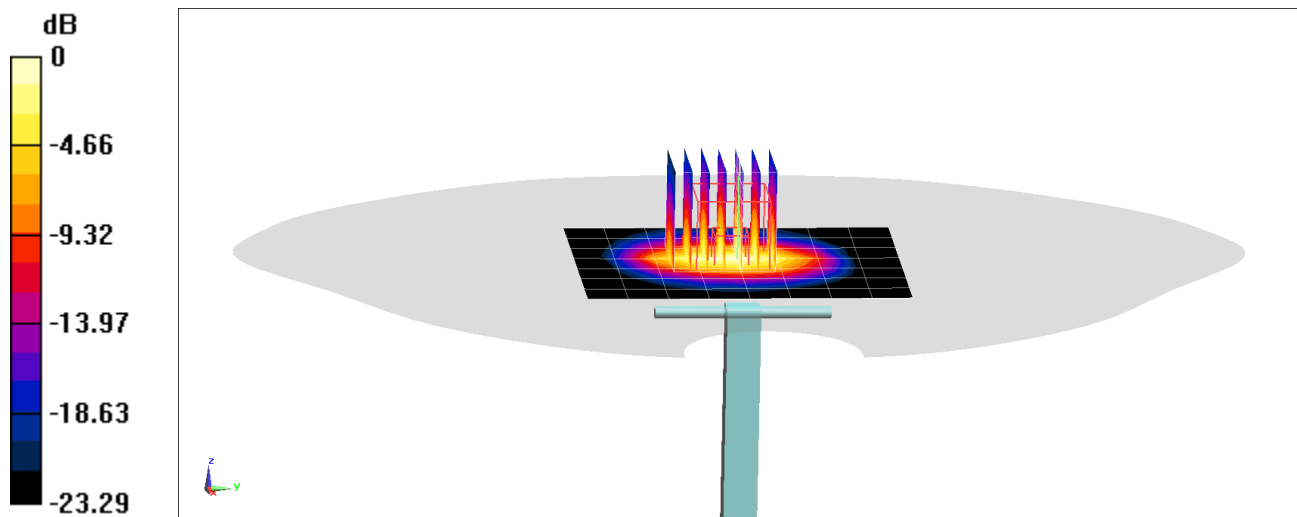
Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm

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

Peak SAR (extrapolated) = 11.7 W/kg

SAR(10 g) = 2.39 W/kg

Deviation(10 g) = -0.83%



0 dB = 8.75 W/kg = 9.42 dBW/kg

PCTEST

DUT: Dipole 2600.0 MHz; Type: D2600V2 - SN1042

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; ConvF:(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

2600.0 MHz System Verification at 20.0 dBm

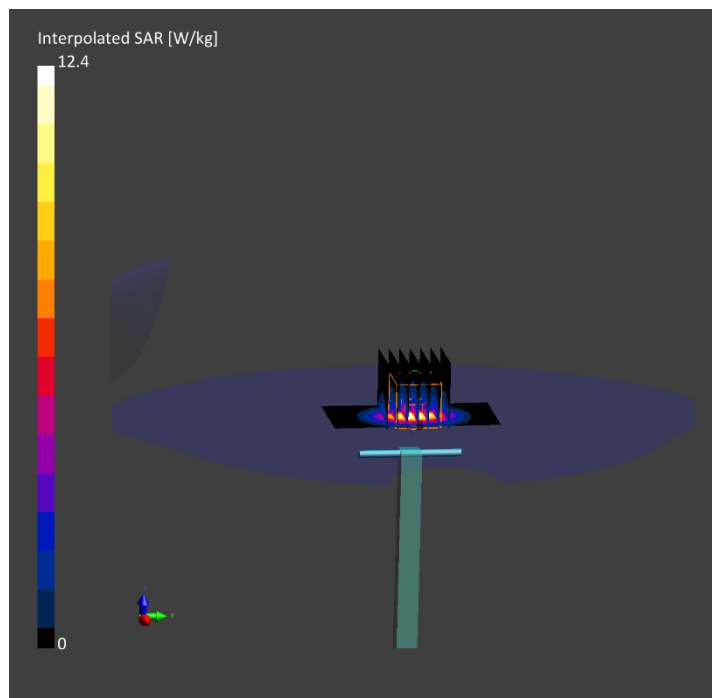
Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm

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) = 12.4W/kg

SAR(10 g) = 2.62 W/kg

Deviation (10 g) = 5.22%



PCTEST

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

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

Medium: 5GHz Body Medium parameters used:

$f = 5250 \text{ MHz}$; $\sigma = 5.351 \text{ S/m}$; $\epsilon_r = 46.986$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/15/2021; Ambient Temp: 21.5°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7638; ConvF(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)

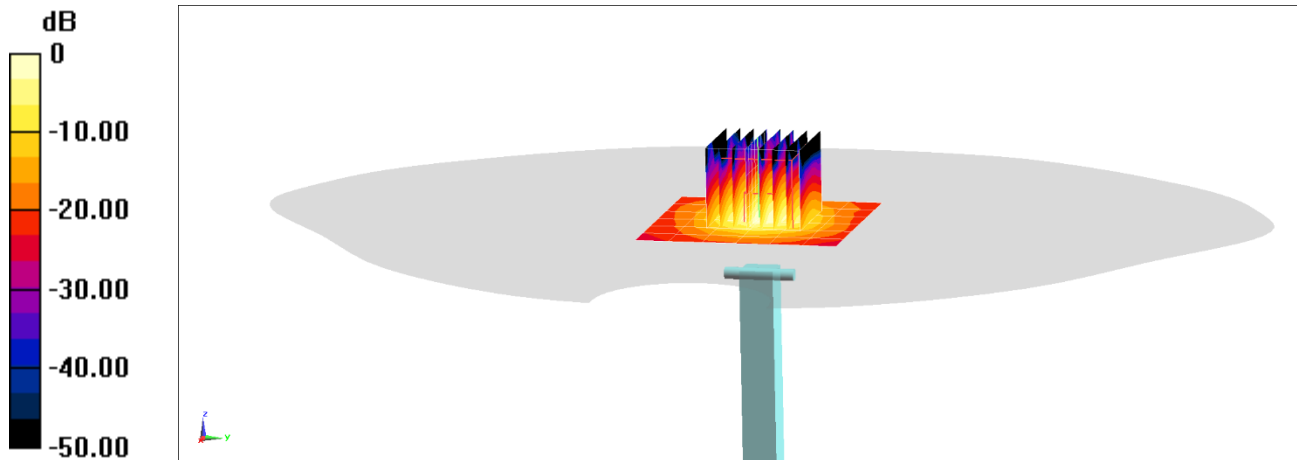
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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

Peak SAR (extrapolated) = 15.1 W/kg

SAR(10 g) = 1.04 W/kg

Deviation(10 g) = 2.46 %



0 dB = 8.75 W/kg = 9.42 dBW/kg

PCTEST

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

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

Medium: 5GHz Body Medium parameters used:

$f = 5600 \text{ MHz}$; $\sigma = 5.832 \text{ S/m}$; $\epsilon_r = 46.355$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/15/2021; Ambient Temp: 21.5°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7638; ConvF(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)

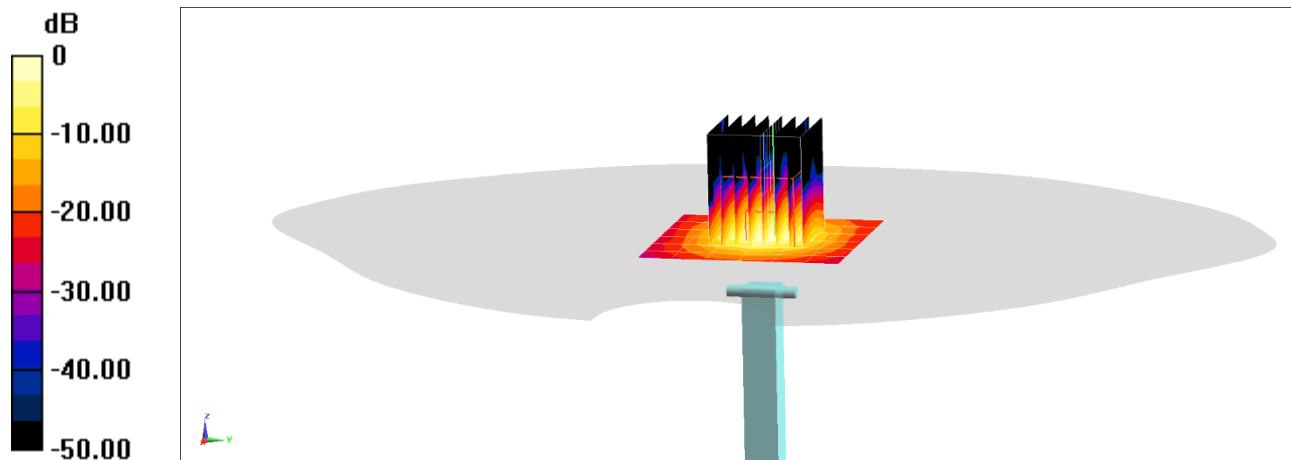
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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

Peak SAR (extrapolated) = 17.9 W/kg

SAR(10 g) = 1.09 W/kg

Deviation(10 g) = 2.83%



0 dB = 9.53 W/kg = 9.79 dBW/kg

PCTEST

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

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

Medium: 5GHz Body Medium parameters used:

$f = 5750 \text{ MHz}$; $\sigma = 6.035 \text{ S/m}$; $\epsilon_r = 46.065$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section; Space: 1.0 cm

Test Date: 08/15/2021; Ambient Temp: 21.5°C; Tissue Temp: 21.3°C

Probe: EX3DV4 - SN7638; ConvF(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)

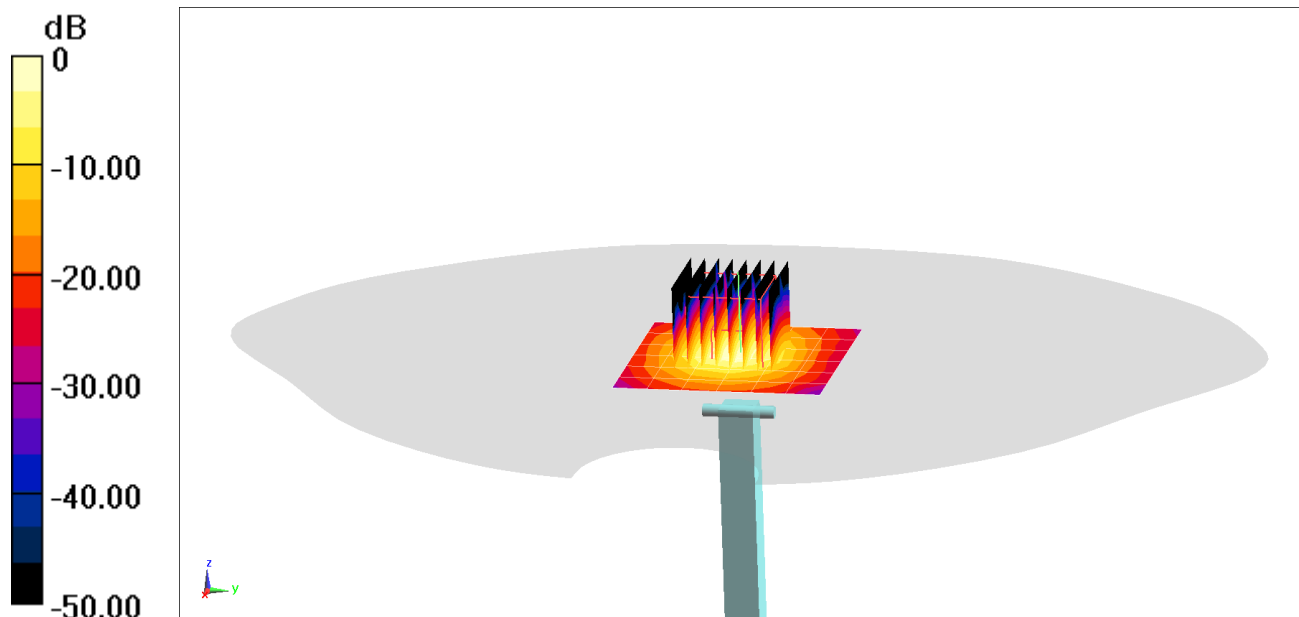
Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm

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

Peak SAR (extrapolated) = 18.3 W/kg

SAR(10 g) = 1.08 W/kg

Deviation(10 g) = 7.46%



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

APPENDIX C: SAR TISSUE SPECIFICATIONS

FCC ID BCG-A2477	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/16/2021 – 08/15/2021	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	Alkoxylated 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-A2477	 PCTEST Proud to be part of element	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/16/2021 – 08/15/2021	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

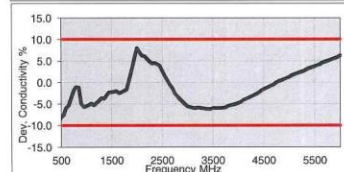
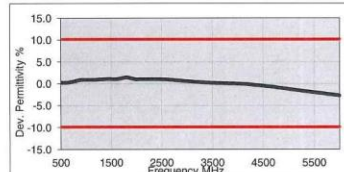
Ambient Condition 22°C ; 30% humidity
 TSL Temperature 22°C
 Test Date 6-Aug-20
 Operator CL

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
6500							
7000							
7500							
8000							
8500							
9000							
9500							
10000							

Figure C-2
 600 – 5800 MHz Body Tissue Equivalent Matter

FCC ID BCG-A2477		SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/16/2021 – 08/15/2021	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

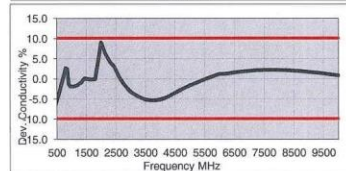
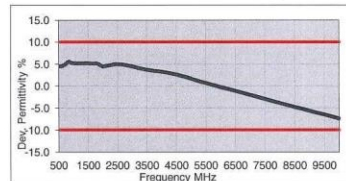
Ambient Condition 22°C ; 30% humidity
 TSL Temperature 22°C
 Test Date 6-Aug-20
 Operator CL

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-A2477		SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/16/2021 – 08/15/2021	DUT Type: Watch		APPENDIX C: Page 4 of 4

APPENDIX D: SAR SYSTEM VALIDATION

FCC ID BCG-A2477	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/16/2021 – 08/15/2021	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

SAR System		Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (ε _r)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM5	DASY52	750	10/15/2020	3949	750	HEAD	0.869	42.830	PASS	PASS	PASS	N/A	N/A	N/A
AM7	DASY52	750	11/17/2020	7420	750	HEAD	0.896	42.678	PASS	PASS	PASS	N/A	N/A	N/A
AM3	DASY52	750	04/19/2021	7421	750	HEAD	0.867	40.284	PASS	PASS	PASS	N/A	N/A	N/A
AM8	DASY52	835	12/07/2020	7558	835	HEAD	0.892	40.942	PASS	PASS	PASS	GMSK	PASS	N/A
AM4A	DASY52	835	03/30/2021	7427	835	HEAD	0.920	41.470	PASS	PASS	PASS	GMSK	PASS	N/A
AM5	DASY52	1750	10/15/2020	3949	1750	HEAD	1.328	40.910	PASS	PASS	PASS	N/A	N/A	N/A
AM4B	DASY52	1750	05/12/2021	7640	1750	HEAD	1.358	39.190	PASS	PASS	PASS	N/A	N/A	N/A
AM4A	DASY52	1900	03/30/2021	7427	1900	HEAD	1.434	39.556	PASS	PASS	PASS	GMSK	PASS	N/A
AM10	cDASY6	1900	05/24/2021	7639	1900	HEAD	1.430	38.100	PASS	PASS	PASS	GMSK	PASS	N/A
AM8	DASY52	2450	12/03/2020	7558	2450	HEAD	1.819	38.600	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM1	cDASY6	2450	04/27/2021	3837	2450	HEAD	1.844	40.206	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM4B	DASY52	2450	07/22/2021	7640	2450	HEAD	1.839	37.470	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM1	cDASY6	2600	06/16/2021	3837	2600	HEAD	2.008	38.286	PASS	PASS	PASS	TDD	PASS	N/A
AM8	DASY52	5250	12/07/2020	7558	5250	HEAD	4.476	34.870	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	DASY52	5600	12/07/2020	7558	5600	HEAD	4.855	34.300	PASS	PASS	PASS	OFDM	N/A	PASS
AM8	DASY52	5750	12/07/2020	7558	5750	HEAD	5.036	34.018	PASS	PASS	PASS	OFDM	N/A	PASS

Table D-2
SAR System Validation Summary – 10g

SAR System		Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (ε _r)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM6	cDASY6	750	06/02/2021	7416	750	BODY	0.930	55.300	PASS	PASS	PASS	N/A	N/A	N/A
AM6	DASY52	750	06/22/2021	7416	750	BODY	0.990	54.000	PASS	PASS	PASS	N/A	N/A	N/A
AM10	cDASY6	835	05/17/2021	7639	835	BODY	0.990	53.700	PASS	PASS	PASS	GMSK	PASS	N/A
AM10	DASY52	1750	04/28/2021	7639	1750	BODY	1.476	51.970	PASS	PASS	PASS	N/A	N/A	N/A
AM10	cDASY6	1750	05/17/2021	7639	1750	BODY	1.480	52.200	PASS	PASS	PASS	N/A	N/A	N/A
AM4B	DASY52	1900	05/10/2021	7640	1900	BODY	1.584	52.310	PASS	PASS	PASS	GMSK	PASS	N/A
AM7	DASY52	2450	11/16/2020	7420	1213	BODY	1.950	52.700	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM4B	DASY52	2450	05/10/2021	7640	2450	BODY	2.026	51.610	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM2	cDASY6	2450	05/17/2021	7532	2450	BODY	2.031	51.888	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM2	cDASY6	2600	05/17/2021	7532	2600	BODY	2.165	51.687	PASS	PASS	PASS	TDD	PASS	N/A
AM9	DASY52	5250	05/11/2021	7638	5250	BODY	5.412	47.566	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	DASY52	5600	05/11/2021	7638	5600	BODY	5.925	46.935	PASS	PASS	PASS	OFDM	N/A	PASS
AM9	DASY52	5750	05/11/2021	7638	5750	BODY	6.129	46.600	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While 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.

FCC ID BCG-A2477	 PCTEST Proud to be part of 	SAR EVALUATION REPORT	Approved by: Quality Manager
Test Dates: 06/16/2021 – 08/15/2021	DUT Type: Watch		APPENDIX D: Page 2 of 2