

ELEMENT MATERIALS TECHNOLOGY

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SAR EVALUATION REPORT

Applicant Name:

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

Date of Testing: 06/06/2022 – 08/12/2022 Test Site/Location: Element, Morgan Hill, CA, USA Document Serial No.: 1C2205090040-22.BCG (Rev 1)

FCC ID:

BCG-A2774

APPLICANT:

APPLE, INC.

DUT Type: Application Type: FCC Rule Part(s): Model: Watch Certification CFR §2.1093 A2774

Equipment	Band & Mode	Tx Frequency	SAR		
Class	Band & Mode	TX Prequency	1g Head (W/kg)	10g Extremity (W/kg)	
PCT	UMTS 850	826.40 - 846.60 MHz	< 0.1	0.18	
PCT	UMTS 1750	1712.4 - 1752.6 MHz	0.35	< 0.1	
PCT	UMTS 1900	1852.4 - 1907.6 MHz	0.76	< 0.1	
PCT	LTE Band 12	699.7 - 715.3 MHz	< 0.1	0.24	
PCT	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A	
PCT	LTE Band 13	779.5 - 784.5 MHz	< 0.1	0.32	
PCT	LTE Band 14	790.5 - 795.5 MHz	< 0.1	0.28	
PCT	LTE Band 26 (Cell)	814.7 - 848.3 MHz	< 0.1	0.19	
PCT	LTE Band 5 (Cell)	824.7 - 848.3 MHz	< 0.1	0.20	
PCT	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.52	< 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	0.58	< 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	0.57	< 0.1	
PCT	LTE Band 41	2498.5 - 2687.5 MHz	0.33	< 0.1	
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.34	< 0.1	
NII	U-NII-1	5180 - 5240 MHz	N/A	N/A	
NII	U-NII-2A	5260 - 5320 MHz	< 0.1	< 0.1	
NII	U-NII-2C	5500 - 5720 MHz	< 0.1	< 0.1	
NII	U-NII-3	5745 - 5825 MHz	< 0.1	< 0.1	
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.1	< 0.1	
Simultaneous SAR per KDB 690783 D01v01r03:			1.10	0.34	

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.







Executive Vice President

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

1.2 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for LTE Band 7 during next to mouth scenarios. When the speaker is on, the output power of LTE Band 7 is reduced. Detailed descriptions of the power reduction mechanisms are included in the operational description. The power reduction mechanisms were confirmed during the SAR evaluation.

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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.

Mode/B	Modulated Average Output Power (in dBm)			
NOUE/ D	dilu	3GPP WCDMA	3GPP HSDPA	3GPP HSUPA
	Rel 99	Rel 5	Rel 6	
UMTS Band 5 (850 MHz)	Max allowed power	25.00	25.00	24.00
	Nominal	24.00	24.00	23.00
UMTS Band 4 (1750 MHz)	Max allowed power	24.00	24.00	24.00
010113 Daliu 4 (1750 10112)	Nominal	23.00	23.00	23.00
UMTS Band 2 (1900 MHz)	Max allowed power	24.00	24.00	24.00
010113 Danu 2 (1900 10112)	Nominal	23.00	23.00	23.00

1.3.1 Maximum Output Power – UMTS Mode

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Modulated Average						
Mode / Ban	d	Output Power (in dBm)				
	Max allowed power	25.50				
LTE FDD Band 12	Nominal	24.50				
	Max allowed power	25.50				
LTE FDD Band 17	Nominal	24.50				
LTE FDD Band 13	Max allowed power	25.50				
LIE FDD Band 13	Nominal	24.50				
LTE FDD Band 14	Max allowed power	25.50				
LIEFDD Band 14	Nominal	24.50				
LTE EDD Band 26 (Call)	Max allowed power	25.50				
LTE FDD Band 26 (Cell)	Nominal	24.50				
LTE FDD Band 5 (Cell)	Max allowed power	25.50				
LTE FDD Barld 5 (Cell)	Nominal	24.50				
LTE FDD Band 66 (AWS)	Max allowed power	24.50				
ETET DD Band 00 (AVV3)	Nominal	23.50				
LTE FDD Band 4 (AWS)	Max allowed power	24.50				
	Nominal	23.50				
LTE FDD Band 25 (PCS)	Max allowed power	24.50				
ETET DD Danu 23 (T CO)	Nominal	23.50				
LTE FDD Band 2 (PCS)	Max allowed power	24.50				
	Nominal	23.50				
LTE FDD Band 7 Reduced	Max allowed power	23.50				
	Nominal	22.50				
LTE FDD Band 7	Max allowed power	24.00				
	Nominal	23.00				
LTE TDD Band 41	Max allowed power	24.00				
	Nominal	23.00				

1.3.2 Maximum Output Power – LTE Mode

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			IEEE 802.11b (2.4 GHz)		IEEE 802.11g (2.4 GHz)		IEEE 802.11n (2.4 GHz)	
Mode	Mode/ Band		Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
		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
	20.044	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
Modulated		6	19.00	18.00	18.50	17.50	18.50	17.50
Average - Single	20 MHz	7	19.00	18.00	18.50	17.50	18.50	17.50
Tx Chain (dBm)	Bandwidth	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

1.3.3

Maximum Output Power – WiFi Mode

			IEEE 802.2	11a (5 GHz)	IEEE 802.1	.1n (5 GHz)
Mode/ Band		Channel	Maximum	Nominal	Maximum	Nominal
		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
	20 MHz Bandwidth	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
Modulated Average -		112	17.00	16.00	17.00	16.00
Single Tx Chain (dBm)		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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Mode / Band		Modulated Average - Single Tx Chain (dBm)
Bluetooth BDR/LE	Maximum	13.00
BIUEIOOTII BDR/LE	Nominal	12.00
Bluetooth EDR	Maximum	13.00
BIGELOOLITEDK	Nominal	12.00
Bluetooth HDR	Maximum	13.00
Bidetootii HDR	Nominal	12.00

1.3.1 Maximum Output Power – Bluetooth Mode

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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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

 Table 1-1

 Simultaneous Transmission Scenarios

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

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02.

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

(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.

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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.

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

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 Wrist Band Types

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

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2 LTE INFORMATION

LTE Information					
Form Factor	1		Watch		
Frequency Range of each LTE transmission band		LTE	Band 12 (699.7 - 715.3 M	IHz)	
		LTE	Band 17 (706.5 - 713.5 M	IHZ)	
	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)				
			and 5 (Cell) (824.7 - 848.3		
			d 66 (AWS) (1710.7 - 1779		
		LTE Bar	nd 4 (AWS) (1710.7 - 1754	.3 MHz)	
			nd 25 (PCS) (1850.7 - 1914		
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz) LTE Band 7 (2502.5 - 2567.5 MHz)				
		LTE	Band 41 (2498.5 - 2687.5 I	MHz)	
Channel Bandwidths		LTE Band	12: 1.4 MHz, 3 MHz, 5 MH	iz, 10 MHz	
			TE Band 17: 5 MHz, 10 MH TE Band 13: 5 MHz, 10 MH		
		L) []	TE Band 14: 5 MHz, 10 MH	12	
		LTE Band 26	(Cell): 1.4 MHz, 3 MHz, 5	MHz, 10 MHz	
			Cell): 1.4 MHz, 3 MHz, 5 M		
			4 MHz, 3 MHz, 5 MHz, 10		
			4 MHz, 3 MHz, 5 MHz, 10 4 MHz, 3 MHz, 5 MHz, 10		
			MHz, 3 MHz, 5 MHz, 10		
		LTE Band 2 (F GG): 1.4	7: 5 MHz, 10 MHz, 15 MH	z, 20 MHz	
		LTE Band 4	41: 5 MHz, 10 MHz, 15 MH	Hz, 20 MHz	
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High High	
LTE Band 12: 1.4 MHz	699.7 (2		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (2		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (2		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (2		707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz LTE Band 17: 10 MHz	706.5 (2		710 (23790)	713.5 (23825) 711 (23800)	
LTE Band 17: 10 MHz LTE Band 13: 5 MHz	709 (2		710 (23790)		
LTE Band 13: 10 MHz	779.5 (2 N/		782 (23230) 782 (23230)	784.5 (23255) N/A	
LTE Band 14: 5 MHz	790.5 (2		793 (23230)	N/A 795.5 (23355)	
LTE Band 14: 10 MHz	790.3 (z		793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (2		831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (2		831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (2		831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (2	6740)	831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (2		836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (2	20415)	836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (2	20425)	836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (2		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 (*		1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (*		1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (1		1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHZ LTE Band 66 (AWS): 20 MHz	1717.5 (* 1720 (1		1745 (132322) 1745 (132322)	1772.5 (132597) 1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1720 (1.		1745 (132322) 1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (2		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 (2		1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (2		1882.5 (26365) 1882.5 (26365)	1910 (26640) 1907.5 (26615)	
LTE Band 25 (PCS): 15 MHz LTE Band 25 (PCS): 20 MHz	1857.5 (1882.5 (26365) 1882.5 (26365)	1907.5 (26615) 1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (1882.5 (26365) 1880 (18900)	1905 (26590) 1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1850.7 (1880 (18900)	1909.3 (19193) 1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1851.5 (1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 10 MHz	1855 (1		1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (1		1880 (18900)	1900 (19100)	
LTE Band 7: 5 MHz	2502.5 (2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (2		2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz					
LTE Band 7: 20 MHz	2510 (2		2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz LTE Band 41: 10 MHz	2506 (39750) 2506 (39750)	2549.5 (40185) 2549.5 (40185)	2593 (40620) 2593 (40620)	2636.5 (41055) 2680 (41490) 2636.5 (41055) 2680 (41490)	
LTE Band 41: 10 MHz LTE Band 41: 15 MHz	2506 (39750) 2506 (39750)	2549.5 (40185) 2549.5 (40185)	2593 (40620) 2593 (40620)	2636.5 (41055) 2680 (41490) 2636.5 (41055) 2680 (41490)	
LTE Band 41: 20 MHz	2506 (39750) 2549.5 (40165) 2593 (40620) 2636.5 (41055) 2680 (414 2506 (39750) 2549.5 (40185) 2593 (40620) 2636.5 (41055) 2680 (414				
UE Category			1		
Modulations Supported in UL			QPSK, 16QAM		
LTE MPR Permanently implemented per 3GPP TS 36.101	101				
section 6.2.3~6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Additional Information	YES				
	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 el/C, 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

$SAR = \frac{d}{dt}$	$\left(dU \right)$	_ <i>d</i>	$\left(dU \right)$
$\frac{SAR}{dt}$	$\left(\frac{dm}{dm}\right)$	$\frac{dt}{dt}$	$\left(\overline{\rho dv} \right)$

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:

- 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.

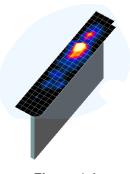


Figure 4-1 Sample SAR Area Scan

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.

			Minimum Zoom Scan			
Frequency	$(\Delta x_{area}, \Delta y_{area})$	$(\Delta x_{2000}, \Delta y_{2000})$	Uniform Grid	Graded Grid		Volume (mm) (x,y,z)
			∆z _{zoom} (n)	$\Delta z_{zoom}(1)^*$	Δz _{zoom} (n>1)*	
≤ 2 GHz	≤15	≤8	≤5	≤4	≤ 1.5*Δz _{zoom} (n-1)	≥ 30
2-3 GHz	≤12	≤5	≤5	≤4	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤12	≤ 5	≤4	≤3	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥28
4-5 GHz	≤ 10	≤ 4	≤3	≤ 2.5	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤10	≤ 4	≤2	≤2	$\leq 1.5^*\Delta z_{zoom}(n-1)$	≥22

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

*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 ε = 3 and loss tangent δ = 0.02. Additionally, a manufacturer provided low-loss foam was used to position the device for head SAR evaluations.

5.2 Positioning for Head

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

5.3 Extremity Exposure Configurations

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

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6 RF EXPOSURE LIMITS

6.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

6.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

HUMAN EXPOSURE LIMITS					
	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT Occupational (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			

 Table 6-1

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

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

2. The Spatial Average value of the SAR averaged over the whole body.

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

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7 FCC MEASUREMENT PROCEDURES

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

7.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

7.2 3G SAR Test Reduction Procedure

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

7.3 Procedures Used to Establish RF Signal for SAR

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

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

7.4 SAR Measurement Conditions for UMTS

7.4.1 Output Power Verification

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

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7.4.2 Head SAR Measurements

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

7.4.3 Body SAR Measurements

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

7.4.4 SAR Measurements with Rel 5 HSDPA

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

7.4.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Subtest 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.

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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.

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

7.5.5 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

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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 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:

- 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

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required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

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

7.6.6 Initial Test Configuration Procedure

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

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

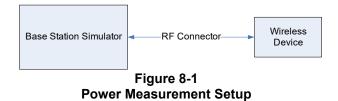
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8.1 UMTS Conducted Powers

Maximum Conducted Powers												
3GPP Release Mode		3GPP 34.121	Cellu	lar Band	[dBm]	AW	S Band [d	IBm]	PC	6 Band [d	Bm]	3GPP MPR
Version		Subtest	4132	4183	4233	1312	1412	1513	9262	9400	9538	[dB]
99	WCDMA	12.2 kbps RMC	23.83	24.03	23.88	23.09	23.11	23.01	23.06	23.03	23.07	-
99	WCDINA	12.2 kbps AMR	24.05	24.23	24.16	23.19	23.12	23.07	23.04	22.99	23.18	-
6		Subtest 1	24.21	23.87	23.83	23.20	23.35	23.21	23.05	22.97	23.12	0
6		Subtest 2	23.79	23.85	23.72	22.78	22.82	22.83	23.18	22.82	22.94	0
6	HSDPA	Subtest 3	23.11	23.20	23.10	22.43	22.49	22.33	21.95	21.87	21.89	0.5
6		Subtest 4	22.84	23.02	22.81	22.21	22.27	22.06	21.60	21.55	21.71	0.5
6		Subtest 1	22.70	22.53	22.88	22.65	22.69	22.47	22.67	22.54	22.73	0
6		Subtest 2	21.02	20.81	21.21	20.64	20.73	20.53	20.70	20.64	20.72	2
6	HSUPA	Subtest 3	21.73	21.57	21.96	21.41	21.47	21.28	21.46	21.38	21.45	1
6		Subtest 4	21.32	21.10	21.38	20.79	20.91	20.71	20.89	20.81	20.91	2
6		Subtest 5	23.26	23.06	23.43	22.86	22.90	22.78	22.79	22.77	22.87	0

Table 8-1 Maximum Conducted Powers

This device does not support DC-HSDPA.



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8.2 LTE Conducted Powers

8.2.1

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.

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

			Conducted Power - 1 LTE Band 12		
			10 MHz Bandwidth		
			Mid Channel		
Modulation	RB Size	RB Offset	23095 (707.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
	1	0	24.66		0
	1	25	24.74	0	0
	1	49	24.72		0
	25	0	23.87		1
	25	12	23.86	0.1	1
	25	25	23.95	0-1	1
QPSK	50	0	23.90		1
	15	0	23.79		1
	15	17	23.83	0-1	1
	15	35	23.84		1
	27	0	23.83		1
	27	12	23.84	0-2	1
	27	23	23.82		1
	1	0	24.23		1
	1	25	24.04	0-2	1
	1	49	24.28		1
	25	0	22.76		2
	25	12	22.69	0-3	2
16QAM	25	25	22.89		2
IUQAIVI	15	0	22.84		2
	15	17	22.66		2
	15	35	22.98	0-5	2
	27	0	22.77	0-0	2
	27	12	22.65]	2
	27	23	22.84		2

Table 8-2	
LTE Band 12 Conducted Power - 10 MHz Bandwidtl	h

LTE Band 12

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8.2.2	LTE Band 13

LTE Band 13 Conducted Power - 10 MHz Bandwidth LTE Band 13							
10 MHz Bandwidth							
			Mid Channel				
Modulation	RB Size	RB Offset	23230 (782.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
			Conducted Power [dBm]				
	1	0	24.98		0		
	1	25	24.85	0	0		
	1	49	24.97		0		
	25	0	23.92		1		
	25	12	23.84	0-1	1		
	25	25	23.87	0-1	1		
QPSK	50	0	23.91		1		
	15	0	23.87		1		
	15	17	23.82	0-1	1		
	15	35	23.86		1		
	27	0	23.87		1		
	27	12	23.85	0-2	1		
	27	23	23.89		1		
	1	0	24.08		1		
16QAM	1	25	23.99	0-2	1		
	1	49	23.74		1		
	25	0	22.69		2		
	25	12	22.82	0-3	2		
	25	25	22.82		2		
	15	0	22.69		2		
	15	17	22.83] [2		
	15	35	22.61	0-5	2		
	27	0	22.77		2		
	27	12	22.86] [2		
	27	23	22.74		2		

 Table 8-3

 LTE Band 13 Conducted Power - 10 MHz Bandwidth

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by:
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LTE Band 14 Conducted Power - 10 MHz Bandwidth LTE Band 14							
10 MHz Bandwidth							
			Mid Channel				
Modulation	RB Size	RB Offset	23330 (793.0 MHz)	MPR Allowed per	MPR [dB]		
			Conducted Power [dBm]	3GPP [dB]			
	1	0	24.45		0		
	1	25	24.69	0	0		
	1	49	24.42		0		
	25	0	23.78		1		
	25	12	23.83	0.1	1		
	25	25	23.88	0-1	1		
QPSK	50	0	23.85		1		
	15	0	23.77		1		
	15	17	23.87	0-1	1		
	15	35	23.81		1		
	27	0	23.78		1		
	27	12	23.87	0-2	1		
	27	23	23.86		1		
	1	0	23.31		1		
16QAM	1	25	23.24	0-2	1		
	1	49	23.18		1		
	25	0	22.73		2		
	25	12	22.65	0-3	2		
	25	25	22.71		2		
	15	0	22.70		2		
	15	17	22.64		2		
	15	35	22.65	0-5	2		
	27	0	22.67	0-5	2		
	27	12	22.66		2		
	27	23	22.66		2		

 Table 8-4

 LTE Band 14 Conducted Power - 10 MHz Bandwidth

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by:
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8.2.4 LTE Band 26

		L	E Band 26 Con	ducted Power -	TU WINZ Bandw	lath	
				LTE Band 26 (Cell) 10 MHz Bandwidth			
			Low Channel	Mid Channel	High Channel	T T	
Modulation	RB Size	RB Offset	26740 (819.0 MHz)	26865 (831.5 MHz)	26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			C	Conducted Power [dBm	1]		
	1	0	24.48	24.45	24.34		0
	1	25	24.27	24.53	24.52	0	0
	1	49	24.32	24.39	24.35		0
	25	0	23.45	23.63	23.49		1
	25	12	23.35	23.62	23.58	0-1	1
	25	25	23.36	23.61	23.56	0-1	1
QPSK	50	0	23.40	23.59	23.45		1
	15	0	23.49	23.61	23.46		1
	15	17	23.35	23.64	23.59	0-1	1
	15	35	23.38	23.54	23.53		1
	27	0	23.44	23.65	23.51	0-2	1
	27	12	23.41	23.64	23.60		1
	27	23	23.36	23.63	23.61		1
	1	0	23.45	23.83	23.85		1
16QAM	1	25	23.67	23.79	23.74	0-2	1
	1	49	23.58	23.77	23.83		1
	25	0	22.35	22.42	22.49		2
	25	12	22.38	22.36	22.42	0-3	2
	25	25	22.41	22.45	22.43] [2
	15	0	22.32	22.39	22.46		2
	15	17	22.47	22.41	22.37	1 1	2
	15	35	22.44	22.51	22.43		2
	27	0	22.40	22.47	22.51	0-5	2
	27	12	22.46	22.45	22.39	1 1	2
	27	23	22.49	22.39	22.41	1 [2

 Table 8-5

 LTE Band 26 Conducted Power - 10 MHz Bandwidth

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by:
10010.000-42774	SAK EVALOATION KEI OKT	Technical Manager
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8.2.5 LTE Band 5

LTE Band 5 (Cell) 10 MHz Bandwidth							
			Mid Channel				
Modulation	RB Size	RB Offset	20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]		
	1	0	24.31		0		
	1	25	24.42	0	0		
	1	49	24.53		0		
	25	0	23.44		1		
	25	12	23.49	0-1	1		
	25	25	23.48		1		
QPSK	50	0	23.43		1		
	15	0	23.35		1		
	15	17	23.45	0-1	1		
	15	35	23.48		1		
	27	0	23.47		1		
	27	12	23.51	0-2	1		
	27	23	23.56		1		
	1	0	23.45		1		
16QAM	1	25	23.40	0-2	1		
	1	49	23.62		1		
	25	0	22.18		2		
	25	12	22.18	0-3	2		
	25	25	22.22		2		
	15	0	22.08		2		
	15	17	22.11	ļ	2		
	15	35	22.15	0-5	2		
	27	0	22.13		2		
	27	12	22.13		2		
	27	23	22.16		2		

 Table 8-6

 LTE Band 5 Conducted Power - 10 MHz Bandwidth

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by:
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8.2.6 LTE Band 66

LTE Band 66 Conducted Power - 20 MHz Bandwidth								
	LTE Band 66 (AWS) 20 MHz Bandwidth							
	L.		Low Channel	Mid Channel	High Channel			
Modulation	RB Size	RB Offset	132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
			(Conducted Power [dBm]			
	1	0	23.19	23.42	23.21		0	
	1	50	23.30	23.34	22.94	0	0	
	1	99	23.55	23.52	23.19	Γ	0	
	50	0	22.55	22.60	22.50		1	
	50	25	22.65	22.62	22.59		1	
	50	50	22.72	22.59	22.52	0-1	1	
QPSK	100	0	22.67	22.68	22.69		1	
	15	0	23.12	23.30	23.17		0	
Ī	15	42	23.19	23.29	23.15	0-1	0	
	15	85	23.36	23.34	23.19		0	
	27	0	22.49	22.56	22.49		1	
	27	37	22.61	22.55	22.47	0-2	1	
	27	73	22.67	22.66	22.49		1	
	1	0	22.55	22.60	22.45		1	
	1	50	22.50	22.55	22.40	0-2	1	
	1	99	22.70	22.65	22.30		1	
	15	0	22.20	22.20	21.95		1	
16QAM	15	42	22.19	22.15	21.90	0-3	1	
	15	85	22.15	22.15	21.70]	1	
	27	0	21.72	21.50	21.26		2	
	27	37	21.75	21.60	21.15	0-5	2	
	27	73	21.70	21.45	21.10] [2	

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

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by:
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				aucteurower			
				LTE Band 25 (PCS) 20 MHz Bandwidth			
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			C	Conducted Power [dBm]		
	1	0	23.40	23.52	23.41		0
	1	50	23.46	23.59	23.71	0	0
	1	99	23.36	23.58	23.54		0
	50	0	22.73	22.58	22.54		1
	50	25	22.74	22.61	22.75	0-1	1
	50	50	22.60	22.82	22.84	0-1	1
QPSK	100	0	22.82	22.75	22.80		1
	15	0	23.67	23.48	23.75		0
	15	42	23.72	23.69	23.52		0
	15	85	23.57	23.65	23.47	1	0
	27	0	22.60	22.48	22.32		1
	27	37	22.71	22.59	22.71	0-2	1
	27	73	22.55	22.59	22.56		1
	1	0	22.65	22.92	22.70		1
	1	50	22.75	22.80	22.80	0-2	1
	1	99	22.70	22.75	22.68	1 [1
	15	0	22.45	22.40	22.50		1
16QAM	15	42	22.49	22.42	22.54	0-3	1
ľ	15	85	22.55	22.36	22.42	1 [1
	27	0	21.35	21.40	21.43		2
	27	37	21.33	21.43	21.52	0-5	2
	27	73	21.30	21.35	21.40	1 [2

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

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8.2.8	LTE Band 7
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LIE Band 7 Conducted Power - 20 MHz Bandwidth							
				LTE Band 7 20 MHz Bandwidth			
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Ċ	onducted Power [dBm	<u>]</u>	1 1	
	1	0	22.86	22.90	23.02		0
	1	50	22.96	22.97	22.76	0	0
	1	99	23.21	23.28	23.10	Τ Γ	0
	50	0	21.82	21.89	22.14		1
	50	25	21.96	22.01	21.98	0.1	1
	50	50	22.12	22.27	22.13	0-1	1
QPSK	100	0	22.25	22.26	22.24		1
	15	0	22.84	22.95	23.11	0-1	0
	15	42	22.89	23.03	23.06		0
	15	85	23.15	23.02	23.11		0
	27	0	21.79	21.93	22.13		1
	27	37	21.97	22.01	22.10	0-2	1
	27	73	22.10	22.02	22.05		1
	1	0	22.02	22.17	22.39		1
	1	50	21.90	22.03	22.13	0-2	1
	1	99	22.22	22.07	22.15	Τ Γ	1
	15	0	21.69	21.86	21.98		1
16QAM	15	42	21.61	21.81	21.80	0-3	1
Ī	15	85	21.83	21.85	21.79		1
	27	0	20.62	20.82	20.92		2
	27	37	20.56	20.82	20.78	0-5	2
	27	73	20.77	20.79	20.72] [2

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

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LTE Band 7 Reduced Conducted Power - 20 MHz Bandwidth								
LTE Band 7 20 MHz Bandwidth								
Low Channel Mid Channel High Channel								
		DD 0 77 /	20850	21100	21350	MPR Allowed per		
Modulation	RB Size	RB Offset	(2510.0 MHz)	(2535.0 MHz)	(2560.0 MHz)	3GPP [dB]	MPR [dB]	
			(Conducted Power [dBm]			
	1	0	22.46	22.40	22.64		0	
	1	50	22.58	22.47	22.43	0	0	
	1	99	22.68	22.89	22.82		0	
	50	0	21.33	21.31	21.55		1	
	50	25	21.49	21.45	21.49	0-1	1	
	50	50	21.55	21.80	21.61	0-1	1	
QPSK	100	0	21.72	21.70	21.71		1	
	15	0	22.35	22.32	21.85		0	
	15	42	22.51	22.40	22.38	0-1	0	
	15	85	22.49	22.65	22.50		0	
	27	0	21.30	21.26	21.51		1	
	27	37	21.52	21.46	21.41	0-2	1	
	27	73	21.52	21.60	21.59		1	
	1	0	21.54	21.80	21.60		1	
	1	50	21.80	21.70	21.60	0-2	1	
	1	99	21.85	22.00	21.70		1	
	15	0	21.40	21.40	21.63		1	
16QAM	15	42	21.45	21.38	21.60	0-3	1	
	15	85	21.50	21.45	21.50		1	
	27	0	20.50	20.50	20.50		2	
	27	37	20.65	20.55	20.36	0-5	2	
	27	73	20.45	20.30	20.40	1 Г	2	

 Table 8-10

 LTE Band 7 Reduced Conducted Power - 20 MHz Bandwidth

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8.2.9 LTE Band 41

Table 8-11
LTE Band 41 Conducted Power - 20 MHz Bandwidth

				20	LTE Band 41 MHz Bandwidth				
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel		
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
				Co	nducted Power [dl	Bm]			
	1	0	23.04	23.05	22.94	23.13	23.14		0
	1	50	22.89	23.11	22.97	23.24	23.04	0	0
	1	99	22.86	23.12	23.00	23.19	22.93		0
	50	0	21.91	22.05	21.98	22.15	21.90		1
	50	25	21.83	22.04	22.01	22.14	21.91	0-1	1
	50	50	21.80	22.08	21.93	22.17	21.89		1
QPSK	100	0	21.93	22.12	21.99	22.14	22.00		1
	15	0	22.97	23.08	22.96	23.13	22.93		0
	15	42	22.86	23.12	23.03	23.21	22.94	0-1	0
	15	85	22.81	23.13	22.98	23.22	22.90		0
	27	0	21.94	22.04	21.87	22.11	21.88		1
	27	37	21.84	22.06	21.92	22.17	21.90	0-2	1
	27	73	21.74	22.06	21.90	22.16	21.83		1
	1	0	21.99	22.26	22.06	22.12	21.92		1
	1	50	21.67	22.26	22.06	22.19	21.88	0-2	1
	1	99	21.89	22.19	22.04	22.05	21.75		1
	15	0	21.86	22.20	21.96	22.09	21.76		1
16QAM	15	42	21.58	22.11	21.93	22.16	21.76	0-3	1
	15	85	21.61	22.15	21.98	22.18	21.75		1
	27	0	20.77	21.13	20.95	21.14	20.80		2
	27	37	20.57	21.09	20.93	21.09	20.70	0-5	2
	27	73	20.60	21.05	20.91	21.11	20.67		2

Base Station Simulator	RF Connector	Wireless Device
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Figure 8-2 Power Measurement Setup

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8.3 WLAN Conducted Powers

2.4GHz Conducted Power [dBm]							
		IEEE Transmission Mode					
Freq [MHz]	Channel	802.11b	802.11g	802.11n			
		Average	Average	Average			
2412	1	17.95	16.06	16.08			
2417	2		16.90	17.05			
2422	3		17.22	17.42			
2437	6	18.02	17.50	17.48			
2452	9		17.70	17.60			
2457	10		17.16	17.13			
2462	11	17.98	13.15	13.16			

Table 8-122.4 GHz WLAN Maximum Average RF Power

Table 8-13
5 GHz WLAN Maximum Average RF Power

5GHz (20MHz) Conducted Power [dBm]							
		IEEE Transm	ission Mode				
Freq [MHz]	Channel	802.11a	802.11n				
		Average	Average				
5180	36	16.03	15.95				
5200	40	16.05	16.01				
5220	44	16.00	15.96				
5240	48	16.01	16.08				
5260	52	16.02	16.11				
5280	56	16.04	16.08				
5300	60	15.95	16.09				
5320	64	16.01	15.96				
5500	100	16.04	16.03				
5600	120	16.09	16.04				
5620	124	15.94	16.05				
5720	144	15.92	15.96				
5745	149	15.96	16.03				
5785	157	15.93	16.01				
5825	165	15.98	16.06				

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.

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

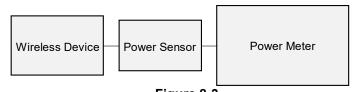


Figure 8-3 Power Measurement Setup

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by:
FCC ID. BCG-A2114	SAR EVALUATION REPORT	Technical Manager
Document S/N:	DUT Type:	Page 32 of 62
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		REV 21.5 M 03/10/2022

8.4 Bluetooth Conducted Powers

Table 8-14 Bluetooth Average RF Power								
_		Data		Avg Cor Pov	nducted wer			
Frequency [MHz]	Modulation	Rate [Mbps]	Channel No.	[dBm]	[mW]			
2402	GFSK	1.0	0	11.96	15.704			
2441	GFSK	1.0	39	11.84	15.276			
2480	GFSK	1.0	78	12.06	16.069			

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

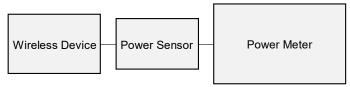


Figure 8-4 Power Measurement Setup

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by:
10010.000-42174		Technical Manager
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		REV 21.5 M

9 SYSTEM VERIFICATION

9.1 Tissue Verification

		weasu	irea He	ead Tise	sue Pro	perties							
Calibrated for		Tissue Temp	Measured	Measured	Measured	TARGET	TARGET						
Tests Performed on:	Tissue Type	During Calibration (°C)	Frequency (MHz)	Conductivity, σ (S/m)	Dielectric Constant. ε	Conductivity, σ (S/m)	Dielectric Constant	% dev σ	% dev ε				
on:		(0)	1					4.059/	0.0.00				
			680 695	0.852	43.593 43.407	0.888			3.04%				
			700	0.872	43.344	0.889			2.79%				
06/12/2022	750 Head	20.0	710	0.872	43.209	0.890			2.71%				
00/12/2022 / 30/16	750 11680	20.0	725	0.895	42.990	0.891			2.18%				
			750	0.920	42.589	0.894			1.54%				
			770	0.939	42.303	0.895			1.11%				
			700	0.845	43.122	0.889			2.18%				
			710	0.854	42.998	0.890	42.149	-4.04%	2.01%				
			725	0.867	42.803	0.891	42.071	-2.69%	1.74%				
06/14/2022	750 Head	24.9	750	0.890	42.462	0.894	41.942	-0.45%	1.24%				
			770	0.909	42.216	0.895			0.90%				
			785	0.922	42.033	0.896			0.65%				
			800	0.936	41.845	0.897			0.39%				
			700	0.846	42.961	0.889			1.80%				
			710	0.855	42.845	0.890			1.65%				
06/16/2022	750 Head	24.9	725 750	0.868	42.640 42.261	0.891			1.35% 0.76%				
06/16/2022	750 Head	24.9	750	0.892	42.261	0.894			0.76%				
			770	0.911	42.000	0.895			0.39%				
		1	800	0.939	41.625	0.896			-0.10%				
			750	0.859	40.557	0.894			-3.30%				
			770	0.839	40.280	0.895	TARGET Dielectric Constant, 6 % dev 42.005 -4.05 42.207 -2.47 42.201 -1.91 42.202 -2.47 42.203 -1.91 42.204 -1.91 42.207 -2.47 42.149 -1.01 42.01 -2.91 41.942 2.911 41.838 4.92 42.071 -2.99 41.802 4.351 42.201 -4.94 41.802 4.353 42.201 -4.84 41.802 4.353 42.071 -2.88 41.942 -2.901 41.838 1.979 41.838 -1.979 41.838 -2.901 41.838 -2.011 41.838 -2.011 41.838 -2.011 41.838 -2.011 41.838 -0.111 41.500 -1.33 41.500 -1.33 41.500		-3.72%				
07/27/2022	750 Head	21.1	785	0.892	40.082	0.896			-4.02%				
			800	0.907	39.885	0.897		1.11%	-4.31%				
			725	0.852	40.992	0.891		11.942 -3.91% 11.838 -2.01% 11.760 -0.45% 11.760 -0.45% 11.682 1.11% 2.071 -4.38% 11.942 -2.01% 11.838 -0.11% 11.942 -2.05% 11.950 1.23% 11.582 2.56% 11.574 -3.34% 11.500 -1.42% 11.504 -4.01% 11.574 -3.66%	-2.56%				
			750	0.876	40.649	0.894	41.942	-2.01%	-3.08%				
07/29/2022	750 Head	22.6	770	0.894	40.379	0.895	41.838	-0.11%	-3.49%				
			785	0.907	40.202	0.896		1.23%	-3.73%				
			800	0.920	40.042	0.897			-3.93%				
			815	0.868	40.876	0.898			-1.73%				
06/14/2022	835 Head	20.5	820	0.873	40.812	0.899			-1.84%				
			835	0.888	40.620	0.900			-2.12%				
			850	0.903	40.435	0.916			-2.57%				
			815	0.862	39.963	0.898			-3.92%				
06/17/2022	835 Head	20.3	820 835	0.867	39.898 39.705	0.899			-4.04% -4.33%				
			835	0.881	39.705	0.900			-4.33% -4.77%				
			815	0.895	40.598	0.898			-4.77%				
			820	0.885	40.534	0.899			-2.51%				
07/24/2022	835 Head	835 Head	835 Head	835 Head	835 Head	18.0	835	0.900	40.337	0.900			-2.80%
						850	0.914	40.134	0.916		-0.22%	-3.29%	
			815	0.878	40.488	0.898		-2.23%	-2.66%				
07/26/2022	835 Head	835 Head		820	0.883	40.425	0.899	41.578	-1.78%	-2.77%			
07/26/2022			19.1	835	0.897	40.230	0.900	41.500	-0.33%	-3.06%			
			850	0.911	40.021	0.916	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-0.55%	-3.56%				
			1710	1.300	38.933	1.348	40.142	4.05% -2.47% -1.91% -1.91% -1.91% -1.91% -1.91% -1.91% -1.91% -1.91% -1.91% -1.91% -1.91% -1.91% -1.95% -2.69% -0.45% -3.93% -2.69% -0.25% -1.79% 3.39% -2.65% -3.91% -2.01% -0.45% -1.17% -2.65% -3.91% -2.01% -1.13% -2.01% -1.13% -2.11% -2.23% -1.56% -3.32% -2.02% -2.02% -2.02% -2.02% -2.02% -2.02% -2.02% -2.02% -2.02% -2.02% -2.0	-3.01%				
			1720	1.309	38.896	1.354			-3.07%				
06/15/2022	1750 Head	21.5	1745	1.332	38.795	1.368			-3.22%				
			1750	1.337	38.775	1.371		1	-3.25%				
		1	1770	1.355	38.700	1.383			-3.36%				
			1790	1.375	38.621	1.394			-3.49%				
		1	1710	1.345	38.732	1.348			-3.51%				
			1720 1745	1.351 1.367	38.712	1.354			-3.52%				
06/24/2022	1750 Head	20.0	1745	1.367	38.659 38.649	1.368			-3.56% -3.57%				
		1	1750	1.371	38.649 38.622	1.371 1.383			-3.57%				
		1	1770	1.384	38.622 38.579	1.383			-3.55%				
			1790	1.395	40.285	1.394			-3.59%				
			1710	1.320	40.265	1.346			0.36%				
		1	1745	1.346	40.229	1.368			0.35%				
07/25/2022	1750 Head	21.4	1750	1.349	40.223	1.371			0.36%				
			1770	1.361	40.190	1.383			0.36%				
			1790	1.372	40.155	1.394			0.35%				
			1850	1.401	39.084	1.400	40.000	0.07%	-2.29%				
			1860	1.406	39.068	1.400	40.000	0.43%	-2.33%				
06/12/2022	1900 Head	21.3	1880	1.418	39.040	1.400		1.29%	-2.40%				
00/12/2022	1900 Head	21.3	1900	1.429	39.018	1.400		2.07%	-2.46%				
		1	1905	1.432	39.012	1.400	40.000	2.29%	-2.47%				
			1	1910	1.435	39.005	1.400	40.000	2.50%	-2.49%			

Table 9-1 Measured Head Tissue Properties

FCC ID: BCG-A2774	SAR EVALUATION REPORT	Approved by: Technical Manager	
Document S/N:	DUT Type:	Dage 24 of 62	
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	-	REV 21.5 M	

0014000 100 head 19.0 19.0 19.0 19.0 19.0 19.00 <th< th=""><th>1900 Hod 1900 Hod 190 Hod</th><th>Calibrated for Tests Performed on:</th><th>Tissue Type</th><th>Tissue Temp During Calibration (°C)</th><th>Measured Frequency (MHz)</th><th>Measured Conductivity, σ (S/m)</th><th>Measured Dielectric Constant, ε</th><th>TARGET Conductivity, σ (S/m)</th><th>TARGET Dielectric Constant, ε</th><th>% dev σ</th><th>% dev</th></th<>	1900 Hod 1900 Hod 190 Hod	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
00/14202 1900 Head 192 1880 1.400 8.810 1.400 4.000 4.000 2.784 3 00/14202 1800 1.400 4.000 2.784 3 3 3 4.000 4.000 2.784 3 00/10202 1.990 1.990 1.990 3.974 1.990 3.924 1.400 4.000 2.784 0 00/10202 2.950 Head 1.792 3.914 1.786 39.214 1.786 39.218 1.400 4.000 2.2684 0 2.2681 0 1.782 39.244 1.786 39.218 1.880 3.181 2.2887 0 2.2681 0 1.262 1.2	1900 Head 1920 1980 1.400 8570 1.400 400.00 1.45% 5.3 1900 Head 1400 1400 1400 400.00 2.076 3.3 1900 Head 1430 34.501 1.400 40.000 2.076 3.3 1900 Head 1430 34.501 1.400 40.000 2.076 3.3 1900 Head 1430 35.00 9.771 1.677 39.400 1.45% 9.7 2200 100 30.701 1.670 39.400 1.45% 9.7 1.600 30.701 1.676 39.401 1.65% 9.7 1.600 30.701 2.076 0.076 2.076 0.076 2.076 1.076 39.401 1.080 30.701 2.076 0.076 2.076 0.076 2.076 0.076 2.076 0.076 2.076 0.076 2.076 0.076 2.076 0.076 2.076 0.076 2.076 0.076 2.076 0.076 1.076 3.080 1.076				1850	1.403	38.590	1.400	40.000	0.21%	-3.52
00/14.202 100 16.20 39.30 14.00 40.00 2.974 3 1910 1.432 39.30 1.400 40.00 2.974 3 1910 1.432 39.304 1.400 40.00 2.974 3 1910 1.432 39.301 1.607 39.490 1.437 6 2010 1.650 30.717 1.607 39.490 1.437 6 2010 1.607 39.491 1.607 39.490 1.457 6 2010 1.607 39.491 1.600 39.491 1.600 39.491 2.557 1.655 39.311 1.686 39.132 3.550 1.650 3.557 1.655 3.557 1.655 3.557 1.655 3.557 1.657 3.557 1.657 3.557 1.657 3.557 1.657 3.557 1.657 3.557 1.657 3.557 1.657 3.557 1.657 3.557 1.657 3.557 1.657 3.557	M01422 100 142 38.510 1.400 40.000 22.96 57. 100 1.435 38.510 1.400 40.000 2.576 37. 200 1.617 38.512 1.400 40.000 2.576 37. 200 1.617 38.510 1.607 38.60 1.400 40.000 2.576 7.57 200 1.627 38.71 1.677 38.60 1.667 38.60 1.667 38.60 1.667 38.60 1.667 38.60 1.568 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.560 30.67 1.565 30.69 1.575 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 </td <td></td> <td></td> <td></td> <td>1860</td> <td>1.408</td> <td>38.571</td> <td>1.400</td> <td>40.000</td> <td>0.57%</td> <td>-3.57</td>				1860	1.408	38.571	1.400	40.000	0.57%	-3.57
00/10202 240 head 1402 38.10 14.403 44.00 2.974 3 00/10202 240 14.21 38.10 14.00 44.00 2.974 3 00/10202 2700 1.627 39.771 1.690 59.60 1.748 0.9 1.749 0.9 0.9 1.749 0.9 </td <td>1900 1.4.2 33.5.0 1.4.00 4.0.00 2.2.00 2.2.0.0 4.0.00 2.0.0.0 2.2.0.0 4.0.00 2.0.0.0 2.2.0.0 4.0.00 2.0.0.0 2.2.0.0 4.0.00 2.0.0.0 4.0.00 2.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.</td> <td>06/14/2022</td> <td>1000 Hood</td> <td>10.2</td> <td>1880</td> <td>1.420</td> <td>38.537</td> <td>1.400</td> <td>40.000</td> <td>1.43%</td> <td>-3.66</td>	1900 1.4.2 33.5.0 1.4.00 4.0.00 2.2.00 2.2.0.0 4.0.00 2.0.0.0 2.2.0.0 4.0.00 2.0.0.0 2.2.0.0 4.0.00 2.0.0.0 2.2.0.0 4.0.00 2.0.0.0 4.0.00 2.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.0.00 4.	06/14/2022	1000 Hood	10.2	1880	1.420	38.537	1.400	40.000	1.43%	-3.66
00100202 1900 1.680 39.991 1.600 9.000 7.978 3 00100202 2400 1.600 30.970 1.607 38.400 1.4481 0 2400 1.020 30.916 1.079 38.400 1.4481 0 2400 1.720 30.916 1.078 38.200 1.4281 0 0 2.9571 0 0 2.9571 0 <	1010 14:00 30:44 14:00 90:00 27.97 37.37 2010 16:07 35:01 17.07 95:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675 35:00 1.675	06/14/2022 1	1500 Head	15.2	1900	1.432	38.510	1.400	40.000	2.29%	-3.73
00/10/2002 9	10/10/202 2400 Head 1				1905	1.435	38.502	1.400	40.000	2.50%	-3.74
06/10/202 240 Head 1	80/10/2002 2400 Head 1:050 39.700 1:070 39.400 -1:456 0.7 98/10/2002 2400 Head 1:781 39.401 1:781 39.401 -1:456 0.7 98/10/2002 2400 Head 1:781 39.401 1:581 39.812 -2:686 0.6 2400 Head 1:781 39.607 1:683 39.162 -2:686 0.6 2501 Head 1:681 39.617 1:683 39.162 -2:686 0.6 2503 Hist 39.411 1:683 39.030 1:384 34.667 0.7 2500 Head 1:687 39.330 1:584 30.660 1:587 39.680 1:587 0.6 2500 Head 1:687 39.580 1:697 39.680 1:788 1:78 2501 Head 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790 1:790				1910	1.438	38.494	1.400	40.000	2.71%	-3.77
00/10/2002 2400 Head 1 1 1 30 4 1 7 20 1 20 1 20 1 200 1 200 1 1 1 30 30 1 30 1 30 1 30 1 30 1 1 30 1	80/10/2002 2400 Head 1				2300	1.647	39.791	1.670	39.500	-1.38%	0.749
00/10202 240 head 1.724 10 10.804 1.725 0 00/10202 2405 head 1.786 30.807 1.880 30.812 1.285 30.812 1.28	00/10/2022 2450 Head 19.2 2460 17.34 39.547 1600 39.200 - 6.2% 0.0 2460 17.06 39.570 1685 39.182 - 2695 6.0 2460 17.06 39.571 1685 39.182 - 2695 6.0 2500 1.600 30.477 1.686 39.138 - 2695 6.0 2500 1.601 39.417 1.683 39.027 - 2696 - 3697 - 4795 6.0 - 4795 - 699 - 4997 - 2916 39.946 - 4795 - 69 <				2310	1.655	39.776	1.679	39.480	-1.43%	0.75
06/10/2022 2450 Head 19.2	2450 head 1460 1703 39.877 1800 30.00 -2.695 0.5 200 110202 2450 head 1706 39.517 1803 30.812 -2.695 0.5 200 110202 2500 1.502 39.477 1.685 39.181 -2.695 0.5 200 110202 2505 1.811 39.431 1.603 30.002 -3.495 0.6 200 1181 39.431 1.603 30.002 -3.495 0.6 200 1181 39.431 1.603 30.002 -3.495 0.6 200 1181 1.601 30.901 -4.695 0.757 7.7 200 1191 1.601 30.901 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.601 1.679 39.				2320	1.663	39.761	1.687	39.460	-1.42%	0.769
06/10/2022 2450 head 18.0 18.0 18.00 18.00 2.00% 0 06/10/2022 2450 head 18.02 18.02 3.047 1.055 30.130 2.2681 0 2050 1.002 30.471 1.056 30.130 3.0491 0 3.0491 0.0502 3.0491 0 3.0491 0.0502 3.0491 0 3.0491 0.0502 3.0491 0 0.0502 3.0491 0 3.0491 0.0502 3.0491 0 3.0491 0.0502 3.0491 0 3.0491 4.0491 0 0.0502 3.0491 1.050 3.0401 1.7575 1 2050 1.097 3.0401 1.070 3.0401 1.075 3.0201 1.075 3.0201 1.075 3.0201 1.075 3.0201 1.075 3.0201 1.075 3.0201 1.027 3.0201 1.027 3.0201 1.027 3.0201 1.027 3.0201 1.027 3.0201 1.027 3.0201 <td< td=""><td>2450 + Head 19:20</td><td></td><td></td><td></td><td>2400</td><td>1.724</td><td>39.644</td><td>1.756</td><td>39.289</td><td>-1.82%</td><td>0.90</td></td<>	2450 + Head 19:20				2400	1.724	39.644	1.756	39.289	-1.82%	0.90
06/10/2022 2450 Head 19:2 19:2 19:2 19:2 19:2 19:3	96/10/2022 2450 Head 19.2 2900 1.902 99.477 1.856 99.130 -2.69% 0.50 2535 1.511 3.9.471 1.966 1.903 3.002 3.26% 6.50 2535 1.511 3.9.431 1.966 1.909 3.007 3.49% 6.0 2600 1.602 3.330 1.503 3.900 3.24% 6.0 2600 1.602 3.330 1.503 3.900 3.24% 6.0 2600 1.602 3.930 1.501 3.900 3.24% 6.0 2600 1.602 3.930 1.504 3.900 3.24% 6.0 2600 1.601 3.916 1.201 3.900 3.74% 7.7 2600 1.701 3.916 1.503 3.960 1.766 3.920 0.37% 7.7 2601 1.601 3.0401 1.503 3.960 1.683 3.9158 1.46% 7.4 2600 1.601				2450	1.763	39.567	1.800	39.200	-2.06%	0.94
06/10/2022 2460 Had 19.2 2510 1.803 98.477 1.806 99.123 3.2395 0 06/10/2022 2550 1.544 98.408 1.909 30.073 3.2495 0 2560 1.562 35.358 1.909 30.003 3.2495 0 2000 1.667 39.313 1.904 30.009 3.2495 0 2000 1.667 30.207 2.018 30.802 4.2495 0 2000 1.067 30.104 2.011 30.802 4.6495 0 2000 1.070 30.025 1.687 7.757 7 2000 1.070 30.025 1.687 7.757 7 2000 1.070 30.025 1.687 7.757 7 2000 1.070 30.025 1.687 7.757 7 2001 1.070 30.025 1.687 7.757 7 2001 1.070 30.025 1.689	2450 Head 19.2 2510 15.00 39.477 1866 30.123 -3.69% 0.0 2505 1.514 39.641 1503 90.023 -3.69% 0.0 2505 1.514 39.641 1503 90.03 -3.64% 0.0 2600 1.627 33.31 1.644 30.001 -3.64% 0.0 2600 1.627 30.313 1.644 30.662 -2.018 30.845 -4.66% 0.7 2600 1.621 30.827 2.018 30.845 -4.67% 0.7 2600 1.621 30.821 1.670 30.861 1.670 30.862 4.67% 0.7 2600 1.671 1.681 30.50 1.67% 1.7 <td></td> <td></td> <td></td> <td>2480</td> <td>1.786</td> <td>39.519</td> <td>1.833</td> <td>39.162</td> <td>-2.56%</td> <td>0.91</td>				2480	1.786	39.519	1.833	39.162	-2.56%	0.91
06/10/2022 2460 Had 19.2 2510 1.803 98.477 1.806 99.123 3.2395 0 06/10/2022 2550 1.544 98.408 1.909 30.073 3.2495 0 2560 1.562 35.358 1.909 30.003 3.2495 0 2000 1.667 39.313 1.904 30.009 3.2495 0 2000 1.667 30.207 2.018 30.802 4.2495 0 2000 1.067 30.104 2.011 30.802 4.6495 0 2000 1.070 30.025 1.687 7.757 7 2000 1.070 30.025 1.687 7.757 7 2000 1.070 30.025 1.687 7.757 7 2000 1.070 30.025 1.687 7.757 7 2001 1.070 30.025 1.687 7.757 7 2001 1.070 30.025 1.689	2450 Head 19.2 2510 15.00 39.477 1866 30.123 -3.69% 0.0 2505 1.514 39.641 1503 90.023 -3.69% 0.0 2505 1.514 39.641 1503 90.03 -3.64% 0.0 2600 1.627 33.31 1.644 30.001 -3.64% 0.0 2600 1.627 30.313 1.644 30.662 -2.018 30.845 -4.66% 0.7 2600 1.621 30.827 2.018 30.845 -4.67% 0.7 2600 1.621 30.821 1.670 30.861 1.670 30.862 4.67% 0.7 2600 1.671 1.681 30.50 1.67% 1.7 <td></td> <td></td> <td></td> <td>2500</td> <td>1.802</td> <td>39.487</td> <td>1.855</td> <td>39.136</td> <td>-2.86%</td> <td>0.90</td>				2500	1.802	39.487	1.855	39.136	-2.86%	0.90
00/12/2022 240 Head 2500 11.84/2 39.409 19.09 39.060 3.34% 0 00/12/2022 240 Head 30.000 1.387 39.313 1.964 30.000 3.3874 0 2000 1.867 39.313 1.964 30.000 3.3874 4.445 0 2000 1.071 30.148 2.071 30.882 4.445 0 2000 1.071 30.148 2.073 30.882 4.457 0 2000 1.071 30.440 1.703 30.440 1.735 1 2000 1.071 30.460 1.736 30.460 1.735 1 2000 1.071 30.460 1.767 30.460 1.736 30.200 1.235 2001 1.031 30.70 1.930 30.202 2.2457 1 2000 1.051 30.600 1.630 30.200 2.2457 1 2001 1.051 30.601 1.630	06/12/2012 240 Head 21.0 19.44 19.49 19.09 39.00 3.44% 0.0 2000 1.827 33.331 11.844 39.000 3.44% 0.0 2000 1.927 30.181 20.18 39.000 3.44% 0.0 2000 1.921 30.181 20.18 39.343 4.44% 0.7 2000 1.921 30.161 2.021 39.842 4.44% 0.7 2001 1.921 30.161 1.920 1.931 39.482 4.44% 0.7 2001 1.921 30.021 1.933 39.480 1.74% 1.7 2001 1.925 30.901 1.933 39.190 1.47% 1.7 2001 1.935 30.901 1.933 39.190 1.47% 1.7 2001 1.935 30.901 1.933 39.190 1.47% 1.7 2001 1.935 30.901 1.935 39.900 1.935 39.900	06/10/2022	2450 Head	19.2					39.123	-3.05%	0.90
00/12/2022 240 Head 2500 11.84/2 39.409 19.09 39.060 3.34% 0 00/12/2022 240 Head 30.000 1.387 39.313 1.964 30.000 3.3874 0 2000 1.867 39.313 1.964 30.000 3.3874 4.445 0 2000 1.071 30.148 2.071 30.882 4.445 0 2000 1.071 30.148 2.073 30.882 4.457 0 2000 1.071 30.440 1.703 30.440 1.735 1 2000 1.071 30.460 1.736 30.460 1.735 1 2000 1.071 30.460 1.767 30.460 1.736 30.200 1.235 2001 1.031 30.70 1.930 30.202 2.2457 1 2000 1.051 30.600 1.630 30.200 2.2457 1 2001 1.051 30.601 1.630	06/12/2012 240 Head 21.0 19.44 19.49 19.09 39.00 3.44% 0.0 2000 1.827 33.331 11.844 39.000 3.44% 0.0 2000 1.927 30.181 20.18 39.000 3.44% 0.0 2000 1.921 30.181 20.18 39.343 4.44% 0.7 2000 1.921 30.161 2.021 39.842 4.44% 0.7 2001 1.921 30.161 1.920 1.931 39.482 4.44% 0.7 2001 1.921 30.021 1.933 39.480 1.74% 1.7 2001 1.925 30.901 1.933 39.190 1.47% 1.7 2001 1.935 30.901 1.933 39.190 1.47% 1.7 2001 1.935 30.901 1.933 39.190 1.47% 1.7 2001 1.935 30.901 1.935 39.900 1.935 39.900				2535	1.831	39.431	1.893	39.092	-3.28%	0.87
06/12/2022 2450 Head 2260 118/2 90 390 19/200 3.9.8.4 3.9.9.4 3.9.0.9 3.9.8.4 3.9.0.9 3.9.8.4 3.9.0.9 3.9.8.4 3.4.46% 30.166 2.0.61 3.9.8.4 3.4.46% 30.166 2.0.61 3.9.0.7 3.9.148 2.0.73 3.8.9.67 -4.7.5% 0 2700 1.971 39.9.148 2.0.73 3.8.9.60 1.7.9% 3.9.4.60 1.7.9% 3.9.4.60 1.7.9% 7.7.6% 3.9.0.61 1.7.9% 3.9.4.60 1.7.9% 7.7.6%	96/14/2002 2460 Head 24.7 24.7 24.60 Head 24.7										0.86
00/12/2022 2450 Head 9 33 1.944 90.07 4.28% 0 00/12/2022 2450 Head 1.954 90.166 2.015 39.845 -4.47% 0 2000 1.957 90.168 2.015 39.840 -7.37% 1 2300 1.977 39.941 1.670 39.480 7.57% 1 2300 1.971 39.950 1.687 39.480 7.57% 1 2450 1.718 39.905 1.687 39.480 7.57% 1 2450 1.718 39.76 1.687 39.289 0.75% 1 2500 1.625 39.060 1.855 39.162 1.62% 1 2500 1.626 39.620 1.635 39.162 1.62% 1 2500 1.646 39.640 1.606 39.620 1.66% 39.620 1.67% 39.600 3.637 1.62% 1 1.62% 1.62% 1.62% 1.66% 39.64	2800 1.887 39.33 1.944 39.006 -4.92% 5.7 2800 1.964 39.198 2.016 38.945 -4.4735 6.7 2800 1.964 39.198 2.017 38.945 -4.4735 6.7 2700 1.971 39.148 2.073 38.822 -4.275 6.7 2300 1.007 39.041 1.670 39.800 1.75% 1.7 2300 1.007 39.045 1.670 39.280 0.77% 1.3 2400 1.734 30.050 1.687 39.162 1.74% 1.7 2400 1.813 30.621 1.683 39.162 1.67% 1.4 2500 1.813 30.621 1.686 39.107 1.24% 1.4 2500 1.864 39.002 1.664 39.003 1.667 39.000 1.67% 1.6 2500 1.66 39.017 1.648 39.010 1.667 39.000 1.67%						39,389				0.84
06/12/2022 2450 Head 2460 1593 99.277 2.018 39.897 -4.49% 0. 06/12/202 1971 39.146 2.013 39.892 -4.92% 0. 2000 1977 39.9146 1.679 39.800 1.679 39.840 7.57% 7.74% 1.776 2210 1.700 39.925 1.679 39.460 7.57% 7.74% 1.776 39.460 7.57% 7.74% 1.776 39.260 1.776 39.460 7.75%	2460 Head 2 2 4 4 4 7.7%										0.78
06/12/2022 2450 Head 1.54 39.166 2.051 38.807 -4.72% 0 06/12/2022 7.070 1.517 39.844 1.670 39.840 1.67% 5 06/12/2022 7.076 39.840 1.677 39.8400 1.75% 7 06/12/2022 7.076 39.800 1.687 39.8400 1.75% 7 2200 1.759 39.8200 1.756 39.8280 1.75% 1.855 39.8100 -1.05% 1.75%	2880 1994 39.180 2.061 39.897 -4.786 0.7 200 1.677 39.41 1.670 39.841 1.670 39.840 1.628 1.7 2300 1.667 39.941 1.670 39.840 1.758 1.7 2300 1.708 39.605 1.687 39.840 1.758 1.7 2400 1.799 39.200 1.768 39.200 1.078 1.78 1.8 2400 1.799 39.200 1.768 39.200 1.078 1.7 1.3 2400 1.825 30.601 1.866 39.130 1.627 1.83 2501 1.831 30.621 1.803 30.622 -2.278 1.4 2500 1.891 30.621 1.690 30.621 1.690 30.621 1.690 30.621 1.690 30.621 1.690 30.621 1.690 30.621 1.690 30.621 1.690 30.621 1.690 30.621 1.690 <td></td>										
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06/12/2022 2450 Head 24.1 1 1 39.00 30.073 -2.67% 1 06/12/2022 2690 1.895 33.920 1.944 2.018 38.944 -2.67% 1 2690 1.954 33.9444 2.015 38.9404 -4.73% 1 2680 1.954 33.9444 2.051 38.907 -4.73% 1 2880 1.954 33.208 1.670 38.400 1.95% -4.73% 1 2200 1.964 39.066 1.679 38.400 1.95% -4.73% -7.73% -7.75% 33.23% -7.75% -3.23% 2.57% -7.7 -2400 1.867 38.401 1.833 39.162 3.27% -7.7 -2500 1.915 38.342 1.833 39.162 3.27% -7.7 -2500 1.916 38.411 1.833 39.162 3.27% -7.7 2500 1.916 38.302 1.813 3.17% -2.250 1.9164 39.000 3.27% <td>96/12/2022 2450 Head 24.1 25.9 1.4 39.03 39.07 39.27 2.27% 1.4 2560 1.989 39.070 1.990 39.070 2.26% 1.4 2600 1.986 39.570 1.944 38.095 -3.57% 1.4 2680 1.934 20.494 2.018 38.945 -4.73% 1.4 2680 1.954 39.464 2.051 38.807 -4.73% 1.4 210 1.668 39.100 1.687 39.400 1.95% 0.6 2200 1.710 39.120 1.687 39.400 1.95% 0.6 2200 1.951 38.401 1.803 39.13 39.136 3.22% 1.7% 1.5 2400 1.953 39.431 1.803 39.02 3.27% 1.7 250 1.954 39.392 1.866 39.132 3.76% -2.0 2610 1.951 38.401 1.900 39.073 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></td>	96/12/2022 2450 Head 24.1 25.9 1.4 39.03 39.07 39.27 2.27% 1.4 2560 1.989 39.070 1.990 39.070 2.26% 1.4 2600 1.986 39.570 1.944 38.095 -3.57% 1.4 2680 1.934 20.494 2.018 38.945 -4.73% 1.4 2680 1.954 39.464 2.051 38.807 -4.73% 1.4 210 1.668 39.100 1.687 39.400 1.95% 0.6 2200 1.710 39.120 1.687 39.400 1.95% 0.6 2200 1.951 38.401 1.803 39.13 39.136 3.22% 1.7% 1.5 2400 1.953 39.431 1.803 39.02 3.27% 1.7 250 1.954 39.392 1.866 39.132 3.76% -2.0 2610 1.951 38.401 1.900 39.073 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
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06/12/2022 2450 Head 24.7 2650 1.934 39.494 2.0161 38.907 -4.73% 1 06/12/2022 2450 Head 2.800 1.686 39.208 1.670 39.400 1.710 39.400 1.716% -2 06/12/2022 2450 Head 2.4.7 1.687 39.400 1.710 39.200 3.77% -7 2400 1.890 38.491 1.833 39.162 3.27% -7 2400 1.891 38.491 1.855 39.300 3.26% -2 2450 1.915 38.400 1.855 39.132 3.7% -7 2500 1.915 38.400 1.855 39.003 3.39% -2 2500 1.966 38.149 1.900 39.000 3.4% -2 2600 2.126 37.680 2.013 38.691 3.67% -2 2700 2.148 37.680 2.016 38.807 3.67% -2 2800 <td>86/14/2022 2450 Head 24.6 1934 39.494 2.018 39.945 -4.73% 1.4 96/14/2022 2450 Head 2300 1.666 39.208 1.670 39.400 1.475% 1.6 96/14/2022 2450 Head 24.7 2330 1.668 39.166 1.677 39.480 1.73% -0.6 2330 1.668 39.162 1.676 39.289 2.57% -7.7 2440 1.800 39.304 1.867 39.440 1.867 39.440 1.867 39.440 1.867 39.440 1.867 39.440 1.867 39.440 1.867 39.440 1.863 39.162 32.7% -7.7 1.57 2440 1.893 39.461 1.857 39.138 32.7% -7.6 1.990 39.161 30.37 3.3%7 -7.6% -2.2 2560 1.996 38.149 1.909 39.073 3.6%7 -2.3 2060 2.033 37.694 2.018 37.694 2.018</td> <td></td>	86/14/2022 2450 Head 24.6 1934 39.494 2.018 39.945 -4.73% 1.4 96/14/2022 2450 Head 2300 1.666 39.208 1.670 39.400 1.475% 1.6 96/14/2022 2450 Head 24.7 2330 1.668 39.166 1.677 39.480 1.73% -0.6 2330 1.668 39.162 1.676 39.289 2.57% -7.7 2440 1.800 39.304 1.867 39.440 1.867 39.440 1.867 39.440 1.867 39.440 1.867 39.440 1.867 39.440 1.867 39.440 1.863 39.162 32.7% -7.7 1.57 2440 1.893 39.461 1.857 39.138 32.7% -7.6 1.990 39.161 30.37 3.3%7 -7.6% -2.2 2560 1.996 38.149 1.909 39.073 3.6%7 -2.3 2060 2.033 37.694 2.018 37.694 2.018										
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06/12/2022 2450 Head 24.6 23.0 1.886 39.208 1.870 39.3600 0.96% -0.25% 06/12/2022 2450 Head 24.7 23.0 1.098 39.208 1.877 39.460 1.13% -0.25% -2.25%	86/14/2022 2450 Head 24.7 2330 1.686 32.20 1.710 33.120 1.687 39.460 1.295 32.480 1.295 33.480 1.295 33.480 1.295 33.480 1.295 33.480 1.295 33.480 1.295 33.480 1.295 33.480 1.295 33.480 1.295 33.481 1.857 33.480 31.78 32.75 1.75 2450 1.915 33.842 1.855 33.138 2.275 1.954 33.842 1.868 39.173 31.78 32.75 1.75 2555 1.954 32.255 1.954 33.25 1.893 39.002 32.75 7.2 2550 1.956 33.161 1.909 39.073 32.85 2.7 2250 1.966 37.694 1.909 39.073 32.85 32.7 2250 1.96 33.692 1.98 39.09 32.4 2.018 38.09 3.69 3.476 2.2 2260 2.03 37.694 2.018 38.09 3.69 1.975 0.2 230 1.717 39.597 1.679 39.480 1.975 0.4 2460 1.777 39.39 1.63 39.204 1.975 0.4 2450 1.83 39.294 1.99										1.41
06/12/2022 2450 Head 24.7 2330 1.1698 339.166 1.677 339.480 1.38% 2400 1.807 339.480 1.38% -2	96/12/2022 2450 Head 24.7 2450 Head 24.7				2680		39.464	2.051	38.907	-4.73%	1.43
06/12/2022 2450 Head 24.7 2200	96/12/2022 2450 Head 24.7 2450 Head 24.7 24.7 24.7 24.50 Head 24.7 24.50 Head 24.7 24.50 Head 1.986 38.62 1.887 39.160 37.7% 1.7 2600 1.915 38.461 1.833 39.102 32.7% 7.7 39.133 32.7% 7.8 7.9 39.13 32.7% 22.7 39.13 39.13 39.13 39.13				2300	1.686	39.208	1.670	39.500	0.96%	-0.74
06/12/2022 2450 Head 24.7 1.800 38.806 1.766 39.299 2.51% -1 06/12/2022 2450 Head 1.857 38.604 1.800 39.200 3.17% -1 2480 1.893 38.461 1.833 39.162 3.27% -1 2500 1.915 38.400 1.855 39.136 3.27% -2 2550 1.915 38.362 1.886 39.132 3.16% -7 2550 1.954 39.256 1.983 39.002 3.22% -2 2550 1.966 38.149 1.920 38.060 3.44% -2 2650 2.030 37.991 1.964 39.002 3.24% -3 2700 2.148 37.999 2.071 38.892 3.66% -3 2300 1.705 39.605 1.670 39.400 1.97% 0 2300 1.712 39.587 1.687 39.480 1.97% 0	96/12/2022 2450 Head 24.7 2450 Head 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 24.7 25.5 19.9 38.40 1.833 39.162 32.75 4.7 2550 19.9 38.3 39.0 39.0 32.25 27.0 27.0 32.25				2310	1.698	39.166	1.679	39.480	1.13%	-0.80
06/12/2022 2450 Head 24.7 2480 1.893 38.481 1.833 38.162 38.163 38.162 22.7% 2510 1.925 33.82 1.886 39.123 3.168 39.136 32.27% .7	06/12/2022 2450 Head 24.7 2450 Head 24.7 2450 Head 24.7 2450 Head 24.7 2450 Head 24.7 2510 1.925 38.840 1.833 39.123 3.75% 7.7 7.5 38.491 1.833 39.402 3.23% 2.250 1.925 38.302 1.866 39.907 3.23% 2.2 3.23 2.2 3.23 2.2 3.23 3.23 3.23 3.23				2320	1.710	39.120	1.687	39.460	1.36%	-0.86
06/12/2022 2450 Head 24.7 2480 1.893 38.481 1.833 39.162 2.27% -7 05/12/2022 2450 Head 24.7 2510 1.925 38.302 1.886 38.130 2.23% -7 2510 1.925 38.302 1.886 39.123 3.16% -7 2550 1.973 38.191 1.909 39.073 3.35% -2 2560 1.966 38.149 1.920 39.060 3.44% -2 2650 2.080 2.126 37.680 2.051 38.907 3.66% -3 2650 2.080 2.126 37.680 2.073 38.882 3.67% -2 2100 1.712 39.597 1.679 39.480 1.97% 0 2210 1.719 39.597 1.677 39.480 1.97% 0 2450 1.816 39.399 1.801 39.202 0.89% 0 2450 1.816 3	06/12/2022 2450 Head 24.7 2600 1.915 38.401 1.855 39.136 3.27% -1.7 2500 1.915 38.402 1.865 39.136 3.27% -1.7 2535 1.954 38.402 1.865 39.136 3.27% -1.7 2535 1.954 38.402 1.865 39.136 32.27% -2.1 2550 1.933 38.42 1.865 39.136 32.27% -2.1 2550 1.933 38.42 1.984 39.092 32.27% -2.1 2560 1.996 38.149 1.920 39.060 3.44% -2.3 2560 2.030 37.991 1.964 38.495 38.49 1.90 39.20 1.90 39.20 1.90 39.20 1.90 39.20 1.90 39.20				2400	1.800	38.806	1.756	39.289	2.51%	-1.23
06/12/2022 2450 Head 24.7 2500 1.915 33.400 1.855 33.136 3.276 -7 2510 1.925 3.8.362 1.883 39.062 3.276 -7 2555 1.954 38.129 1.909 39.073 3.35% -2 2550 1.973 38.149 1.920 39.000 3.44% -2 2660 2.080 37.991 1.964 39.009 3.36% -2 2660 2.088 37.764 2.018 38.445 3.47% -2 2660 2.126 37.660 2.018 38.482 3.67% -3 2700 2.148 37.997 1.679 39.480 1.97% 0 2310 1.712 39.697 1.687 39.480 1.97% 0 2450 1.816 39.399 1.807 39.480 1.97% 0 2450 1.816 39.393 1.855 39.186 0.17% 0	06/12/2022 2450 Head 24.7 2500 1915 38.400 1.865 39.136 32.2% -1.6 39.123 3.16% -1.9 2535 1.925 38.362 1.866 39.123 3.16% -1.9 2350 1.973 38.362 1.866 39.123 3.37% -2.2 2550 1.973 38.191 1.909 39.073 3.37% -2.2 2560 1.966 31.49 1.909 39.073 3.37% -2.2 2560 1.96 37.991 1.904 39.003 3.36% -2.2 2660 2.080 37.794 2.018 38.495 3.47% -2.9 2800 2.030 37.794 2.018 38.495 3.47% -2.9 2800 2.030 1.705 39.600 2.017 38.482 3.62% 3.66% -3.3 2200 1.705 39.607 1.670 39.400 1.97% 0.3 2400 1.717 39.471 1.756 39.200 1.97% 0.4 2400 1.837 39.39 1.833 39.162 0.27% 0.4 2500 1.831 39.162 0.27% 0.4 2500 1.831 39.123 -0.27% 0.4 2500 1.851 39.138 1.86 39.102 -0.27% 0.4 2500 1.85				2450	1.857	38.604	1.800	39.200	3.17%	-1.52
06/12/2022 2450 Head 24.7 2510 1.925 38.362 1.866 39.123 3.16% -7 2535 1.954 38.262 1.893 39.062 3.22% -2 2550 1.973 38.191 1.909 39.073 3.35% -2 2560 1.973 38.191 1.909 39.060 3.44% -2 2660 2.030 37.991 1.964 39.060 3.44% -2 2660 2.068 37.794 2.018 38.945 3.47% -2 2660 2.148 37.7698 2.073 38.882 3.62% -3 2300 1.705 39.605 1.670 39.500 2.10% 0 2310 1.719 39.587 1.687 39.480 1.97% 0 2450 1.816 39.339 1.833 39.162 0.22% 0 2450 1.861 39.339 1.833 39.062 -0.67% 0	06/12/2022 2450 Head 24.7 2510 1.925 38.362 1.866 39.123 3.16% -1.9 2535 1.954 38.255 1.893 39.082 3.22% -2.1 2550 1.973 38.191 1.909 39.073 3.35% -2.2 2560 1.973 38.191 1.909 39.073 3.86% -2.2 2600 2.030 37.794 2.018 38.495 3.47% -2.9 2680 2.088 37.794 2.018 38.945 3.47% -2.9 2680 2.088 37.794 2.018 38.945 3.47% -2.9 2680 1.086 39.170 38.60 1.670 39.600 1.670 39.480 1.97% 0.3 2300 1.719 39.567 1.687 39.480 1.97% 0.3 2400 1.777 39.411 1.766 39.240 0.87% 0.4 2501 1.863 39.241 1.866				2480	1.893	38.481	1.833	39.162	3.27%	-1.74
06/14/2022 2450 Head 21.6 2535 1.954 38.255 1.893 39.092 3.22% -2 06/14/2022 2450 Head 2450 1.973 38.149 1.320 39.060 3.38% -2 2660 2.030 37.991 1.964 39.009 3.38% -2 2650 2.088 37.794 2.018 38.945 3.47% -2 2660 2.126 37.680 2.051 38.897 3.66% -3 2700 2.148 37.598 2.073 38.882 3.62% -3 2310 1.712 39.507 1.679 39.400 1.97% 0 2320 1.719 39.567 1.687 39.400 1.97% 0 2450 1.816 39.399 1.800 39.200 0.89% 0 2450 1.816 39.392 1.833 39.162 0.22% 0 2500 1.851 39.394 1.855 39.136 <td< td=""><td>06/14/2022 2450 Head 21.6 1953 39.265 1.893 39.092 3.25% -2.7 2560 1.996 38.191 1.900 39.060 3.44% -2.3 2600 2.030 37.991 1.964 39.009 3.36% -2.6 2660 2.082 37.794 2.018 38.945 3.47% -2.9 2680 2.126 37.690 2.018 38.945 3.47% -2.9 2680 2.126 37.690 2.018 38.945 3.47% -2.9 2000 1.705 39.605 1.670 38.800 1.67% 0.2 2310 1.712 39.597 1.679 38.480 1.97% 0.3 2400 1.777 39.471 1.756 39.239 1.20% 0.4 2480 1.861 39.399 1.800 39.200 0.68% 0.5 2480 1.861 39.39 1.833 39.162 0.27% 0.5</td><td></td><td></td><td></td><td>2500</td><td>1.915</td><td>38.400</td><td>1.855</td><td>39.136</td><td>3.23%</td><td>-1.88</td></td<>	06/14/2022 2450 Head 21.6 1953 39.265 1.893 39.092 3.25% -2.7 2560 1.996 38.191 1.900 39.060 3.44% -2.3 2600 2.030 37.991 1.964 39.009 3.36% -2.6 2660 2.082 37.794 2.018 38.945 3.47% -2.9 2680 2.126 37.690 2.018 38.945 3.47% -2.9 2680 2.126 37.690 2.018 38.945 3.47% -2.9 2000 1.705 39.605 1.670 38.800 1.67% 0.2 2310 1.712 39.597 1.679 38.480 1.97% 0.3 2400 1.777 39.471 1.756 39.239 1.20% 0.4 2480 1.861 39.399 1.800 39.200 0.68% 0.5 2480 1.861 39.39 1.833 39.162 0.27% 0.5				2500	1.915	38.400	1.855	39.136	3.23%	-1.88
06/14/2022 2450 Head 21.6 1.973 38.191 1.909 39.073 3.38% -2 06/14/2022 2450 Head 2460 1.966 38.149 1.920 39.009 3.44% -2 06/14/2022 2450 Head 2.126 37.690 2.018 38.945 3.47% -2 2680 2.126 37.690 2.051 38.807 3.66% -3 2700 2.146 37.598 2.073 38.822 3.67% -6 2300 1.705 39.605 1.670 39.400 1.97% 0 2310 1.712 39.597 1.687 39.400 1.90% 0 2400 1.777 39.471 1.766 39.290 0.89% 0 2450 1.816 39.393 1.833 39.162 0.22% 0 2500 1.861 39.244 1.855 39.136 -0.69% 0 2600 1.933 39.262 1.68% 0	06/14/2022 2450 Head 21.6 1.973 38.191 1.909 39.073 3.35% -2.2 06/14/2022 2450 Head 2.960 1.996 39.091 3.904 -2.3 06/14/2022 2450 Head 2.16 37.691 1.904 39.009 3.36% -2.6 2680 2.126 37.690 2.073 38.892 3.62% -3.3 2700 2.148 37.598 2.073 38.882 3.62% -3.3 2300 1.705 39.697 1.679 39.400 1.97% 0.3 2320 1.719 39.587 1.687 39.480 1.97% 0.3 2400 1.777 39.471 1.766 39.289 1.20% 0.4 2450 1.816 39.399 1.803 39.162 0.22% 0.4 2550 1.881 39.324 1.855 39.136 0.11% 0.4 2550 1.893 39.292 1.893 39.002 0.69%	06/12/2022	2450 Head	24.7	2510	1.925	38.362	1.866	39.123	3.16%	-1.95
06/14/2022 2450 Head 21.6 2560 1.986 38.149 1.920 39.060 3.44% -2 06/14/2022 2450 Head 2 2450 Head 21.6 37.691 2.018 38.945 3.47% -2 06/14/2022 2450 Head 2 1.877 39.605 1.670 39.600 2.10% 0.77% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.2300 1.712 39.507 1.679 39.400 1.97% 0.2320 1.719 39.507 1.687 39.400 1.97% 0.2320 1.717 39.471 1.756 39.229 1.20% 0.089% 0.2480 1.837 39.339 1.833 39.162 0.27% 0.2550 1.881 39.924 1.835 39.162 0.27% 0.2550 1.882 39.292 1.833 39.092 -0.88% 0.2550 1.882 39.292 1.833 39.092 -0.88% 0.2550 <	06/14/2022 2450 Head 21.6 1966 38.149 1.920 39.060 3.44% -2.3 06/14/2022 2450 Head 21.6 1.064 39.009 3.36% -2.6 2680 2.030 37.794 2.018 38.945 3.47% -2.9 2680 2.126 37.690 2.051 38.907 3.66% -3.1 2700 2.148 37.598 2.073 38.882 3.62% -3.3 2300 1.705 39.605 1.670 39.460 1.97% 0.3 2400 1.717 39.597 1.687 39.460 1.90% 0.3 2400 1.816 39.399 1.803 39.162 0.22% 0.4 2500 1.853 39.324 1.855 39.136 -0.11% 0.4 2500 1.853 39.292 1.893 39.092 -0.58% 0.5 2550 1.861 39.316 1.91% 0.4 2600 1.935 39.162				2535	1.954	38.255	1.893	39.092	3.22%	-2.14
06/14/2022 2450 Head 21.6 2560 1.986 38.149 1.920 39.060 3.44% -2 06/14/2022 2450 Head 2 2450 Head 21.6 37.691 2.018 38.945 3.47% -2 06/14/2022 2450 Head 2 1.877 39.605 1.670 39.600 2.10% 0.77% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.217% 0.2300 1.712 39.507 1.679 39.400 1.97% 0.2320 1.719 39.507 1.687 39.400 1.97% 0.2320 1.717 39.471 1.756 39.229 1.20% 0.089% 0.2480 1.837 39.339 1.833 39.162 0.27% 0.2550 1.881 39.924 1.835 39.162 0.27% 0.2550 1.882 39.292 1.833 39.092 -0.88% 0.2550 1.882 39.292 1.833 39.092 -0.88% 0.2550 <	06/14/2022 2450 Head 21.6 1966 38.149 1.920 39.060 3.44% -2.3 06/14/2022 2450 Head 21.6 1.064 39.009 3.36% -2.6 2680 2.030 37.794 2.018 38.945 3.47% -2.9 2680 2.126 37.690 2.051 38.907 3.66% -3.1 2700 2.148 37.598 2.073 38.882 3.62% -3.3 2300 1.705 39.605 1.670 39.460 1.97% 0.3 2400 1.717 39.597 1.687 39.460 1.90% 0.3 2400 1.816 39.399 1.803 39.162 0.22% 0.4 2500 1.853 39.324 1.855 39.136 -0.11% 0.4 2500 1.853 39.292 1.893 39.092 -0.58% 0.5 2550 1.861 39.316 1.91% 0.4 2600 1.935 39.162				2550	1.973	38.191	1.909	39.073	3.35%	-2.26
06/14/2022 2450 Head 21.6 2.080 37.794 2.018 38.945 3.47% -2.2 06/14/2022 2450 Head 21.6 37.680 2.013 38.882 3.66% -3.2 06/14/2022 2450 Head 21.6 37.690 2.073 38.882 3.67% -3.2 06/14/2022 2450 Head 21.6 1.712 39.597 1.679 39.400 1.97% 0 2320 1.719 39.597 1.687 39.400 1.97% 0 2400 1.717 39.471 1.766 39.209 0.22% 0 2400 1.857 39.339 1.833 39.162 0.22% 0 2500 1.863 39.234 1.855 39.138 -0.75% 0 2500 1.863 39.244 1.890 39.002 -0.28% 0 2650 1.861 39.234 1.850 39.102 -0.27% 0 2650 1.863 39.242 <t< td=""><td>06/14/2022 2450 Head 21.6 2.088 37.794 2.018 38.945 3.47% -2.9 06/14/2022 2450 Head 21.66 37.690 2.073 38.802 3.62% -3.3 06/14/2022 2450 Head 21.66 37.690 2.073 38.802 3.62% -3.3 2300 1.705 39.605 1.670 39.400 1.97% 0.3 23200 1.719 39.587 1.687 39.460 1.99% 0.3 2400 1.777 39.471 1.786 39.289 1.20% 0.4 2450 1.816 39.399 1.833 39.162 0.22% 0.4 2550 1.861 39.318 1.866 39.138 -0.68% 0.5 2550 1.881 39.240 1.999 39.073 -0.64% 0.4 2600 1.935 39.186 1.944 39.090 -1.48% 0.3 2650 1.991 39.241 1.920 39.400</td><td></td><td></td><td></td><td>2560</td><td>1.986</td><td>38.149</td><td>1.920</td><td>39.060</td><td>3.44%</td><td>-2.33</td></t<>	06/14/2022 2450 Head 21.6 2.088 37.794 2.018 38.945 3.47% -2.9 06/14/2022 2450 Head 21.66 37.690 2.073 38.802 3.62% -3.3 06/14/2022 2450 Head 21.66 37.690 2.073 38.802 3.62% -3.3 2300 1.705 39.605 1.670 39.400 1.97% 0.3 23200 1.719 39.587 1.687 39.460 1.99% 0.3 2400 1.777 39.471 1.786 39.289 1.20% 0.4 2450 1.816 39.399 1.833 39.162 0.22% 0.4 2550 1.861 39.318 1.866 39.138 -0.68% 0.5 2550 1.881 39.240 1.999 39.073 -0.64% 0.4 2600 1.935 39.186 1.944 39.090 -1.48% 0.3 2650 1.991 39.241 1.920 39.400				2560	1.986	38.149	1.920	39.060	3.44%	-2.33
06/14/2022 2450 Head 21.6 37.680 2.051 38.907 3.66% -3.7 06/14/2022 2.460 37.680 2.073 38.882 3.62% -3.7 06/14/2022 2.450 Head 7.705 39.605 1.670 39.480 1.97% 0.2310 1.712 39.597 1.679 39.480 1.97% 0.2320 1.719 39.597 1.687 39.480 1.97% 0.2320 1.719 39.597 1.687 39.480 1.97% 0.2400 1.777 39.471 1.756 39.289 1.20% 0.22%	06/14/2022 2450 Head 21.6 37.680 2.051 33.907 3.66% -3.7 06/14/2022 2450 Head 2700 2.148 37.598 2.073 38.862 3.62% -3.3 06/14/2022 2450 Head 1.712 39.605 1.670 39.500 2.10% 0.2 2310 1.712 39.587 1.687 39.480 1.97% 0.3 2400 1.777 39.471 1.766 39.299 1.20% 0.4 2450 1.816 39.399 1.800 39.200 0.68% 0.5 2460 1.853 39.324 1.855 39.136 -0.11% 0.4 2500 1.853 39.324 1.855 39.132 -0.27% 0.5 2550 1.893 39.292 1.893 39.092 -0.68% 0.5 2550 1.893 39.292 1.893 39.092 -0.68% 0.5 2550 1.893 39.292 1.893 39.090				2600	2.030	37.991	1.964	39.009	3.36%	-2.61
06/14/2022 2450 Head 21.6 37.680 2.051 38.907 3.66% -3.7 06/14/2022 2.460 37.680 2.073 38.882 3.62% -3.7 06/14/2022 2.450 Head 7.705 39.605 1.670 39.480 1.97% 0.2310 1.712 39.597 1.679 39.480 1.97% 0.2320 1.719 39.597 1.687 39.480 1.97% 0.2320 1.719 39.597 1.687 39.480 1.97% 0.2400 1.777 39.471 1.756 39.289 1.20% 0.22%	06/14/2022 2450 Head 21.6 37.680 2.051 33.907 3.66% -3.7 06/14/2022 2450 Head 2700 2.148 37.598 2.073 38.862 3.62% -3.3 06/14/2022 2450 Head 1.712 39.605 1.670 39.500 2.10% 0.2 2310 1.712 39.587 1.687 39.480 1.97% 0.3 2400 1.777 39.471 1.766 39.299 1.20% 0.4 2450 1.816 39.399 1.800 39.200 0.68% 0.5 2460 1.853 39.324 1.855 39.136 -0.11% 0.4 2500 1.853 39.324 1.855 39.132 -0.27% 0.5 2550 1.893 39.292 1.893 39.092 -0.68% 0.5 2550 1.893 39.292 1.893 39.092 -0.68% 0.5 2550 1.893 39.292 1.893 39.090				2650	2.088	37.794	2.018	38.945	3.47%	-2.96
06/14/2022 2450 Head 21.6 2700 2.148 37.598 2.073 38.882 3.62% -5.3 06/14/2022 2450 Head 21.6 1.712 39.657 1.679 39.480 1.97% 0 06/14/2022 2450 Head 21.6 1.712 39.597 1.687 39.480 1.97% 0 06/14/2022 2450 Head 21.6 1.816 39.399 1.800 39.200 0.88% 0 2500 1.853 39.324 1.855 39.136 -0.17% 0 2500 1.853 39.244 1.890 39.000 -0.89% 0 2500 1.853 39.244 1.999 39.073 -0.84% 0 2560 1.991 39.241 1.992 39.080 -0.99% 0 2600 1.935 39.138 1.866 39.133 -0.84% 0 2600 1.935 39.133 2.018 38.945 -2.73% 0 26	06/14/2022 2450 Head 21.6 2700 2.148 37.598 2.073 38.882 3.62% -3.3 06/14/2022 2450 Head 21.0 1.705 39.697 1.670 39.400 1.97% 0.3 06/14/2022 2450 Head 21.6 21.6 1.861 39.399 1.800 39.200 0.89% 0.5 06/14/2022 2450 Head 21.6 2500 1.853 39.324 1.865 39.136 -0.11% 0.4 2650 1.861 39.339 1.833 39.162 0.22% 0.4 2550 1.861 39.339 1.835 39.000 0.89% 0.5 2550 1.893 39.241 1.920 39.060 -0.99% 0.4 2600 1.999 39.033 2.081 38.907 -2.64% 0.3 2650 1.991 39.211 1.920 39.060 -0.99% 0.4 2600 1.999 39.033 2.081 38.997 -2.64				2680	2.126	37.680	2.051	38.907	3.66%	-3.15
06/14/2022 2450 Head 21.6 2300 1.705 39.605 1.670 39.500 2.10% 0 06/14/2022 2450 Head 21.6 21.6 1.712 39.507 1.687 39.400 1.97% 0 2450 Head 21.6 1.712 39.587 1.687 39.400 1.97% 0 2400 1.777 39.471 1.756 39.289 1.20% 0 2400 1.817 39.393 1.833 39.162 0.27% 0 2500 1.853 39.324 1.855 39.136 -0.11% 0 2500 1.853 39.284 1.999 39.092 -0.58% 0 2550 1.893 39.284 1.999 39.092 -0.27% 0 2560 1.991 39.241 1.920 39.009 -0.27% 0 2660 1.991 39.181 1.994 39.092 -0.58% 0 2660 1.997 39.103 <t< td=""><td>96/14/2022 2450 Head 21.6 2330 1.705 33.605 1.670 39.400 1.97% 0.3 2330 1.719 39.587 1.687 39.460 1.97% 0.3 2230 1.719 39.587 1.687 39.460 1.97% 0.3 2450 1.816 39.399 1.807 39.460 1.97% 0.4 2450 1.816 39.399 1.800 39.290 1.20% 0.89% 0.5 2440 1.837 39.339 1.833 39.162 0.22% 0.4 2550 1.861 39.392 1.833 39.092 -0.58% 0.5 2555 1.882 39.242 1.885 39.136 -0.17% 0.4 2560 1.901 39.241 1.920 39.060 -0.98% 0.4 2660 1.995 39.033 2.018 39.060 -0.68% 0.4 2660 1.995 39.033 2.018 38.907 -2.45% 0.4 2660 1.995 39.033 2.01 38.907 -2.45% 0.4 2600 1.99 39.033 2.01 38.907 -2.45% 0.4 2300 1.883 39.20 3.17% -2.6 2430 1.861 38.637 1.687 39.400 0.89% -2.0 2330 1.684</td><td></td><td></td><td></td><td>2700</td><td></td><td>37.598</td><td>2.073</td><td>38.882</td><td>3.62%</td><td>-3.30</td></t<>	96/14/2022 2450 Head 21.6 2330 1.705 33.605 1.670 39.400 1.97% 0.3 2330 1.719 39.587 1.687 39.460 1.97% 0.3 2230 1.719 39.587 1.687 39.460 1.97% 0.3 2450 1.816 39.399 1.807 39.460 1.97% 0.4 2450 1.816 39.399 1.800 39.290 1.20% 0.89% 0.5 2440 1.837 39.339 1.833 39.162 0.22% 0.4 2550 1.861 39.392 1.833 39.092 -0.58% 0.5 2555 1.882 39.242 1.885 39.136 -0.17% 0.4 2560 1.901 39.241 1.920 39.060 -0.98% 0.4 2660 1.995 39.033 2.018 39.060 -0.68% 0.4 2660 1.995 39.033 2.018 38.907 -2.45% 0.4 2660 1.995 39.033 2.01 38.907 -2.45% 0.4 2600 1.99 39.033 2.01 38.907 -2.45% 0.4 2300 1.883 39.20 3.17% -2.6 2430 1.861 38.637 1.687 39.400 0.89% -2.0 2330 1.684				2700		37.598	2.073	38.882	3.62%	-3.30
06/14/2022 2450 Head 21.6 1.712 39.597 1.679 39.480 1.97% 0 06/14/2022 2450 Head 21.6 22.00 1.719 39.597 1.687 39.480 1.90% 0 06/14/2022 2450 Head 21.6 2400 1.777 39.399 1.800 39.289 1.20% 0 2480 1.816 39.399 1.803 39.162 0.22% 0 2500 1.853 39.324 1.855 39.136 -0.71% 0 2510 1.861 39.318 1.0866 39.123 -0.27% 0 2550 1.893 39.264 1.909 39.002 -0.88% 0 2560 1.901 39.241 1.920 39.060 -0.99% 0 2660 1.975 39.103 2.018 38.945 -2.78% 0 2660 1.976 39.103 2.018 38.945 -2.78% 0 2680 1.999	06/14/2022 2450 Head 21.6 1712 39.597 1.679 39.480 1.97% 0.3 06/14/2022 2450 Head 21.6 21.6 1.777 39.471 1.766 39.299 1.20% 0.4 06/14/2022 2450 Head 21.6 21.6 1.861 39.399 1.803 39.162 0.27% 0.4 2500 1.853 30.324 1.865 39.136 -0.11% 0.4 2500 1.851 39.399 1.803 39.092 -0.69% 0.5 2550 1.893 39.292 1.893 39.092 -0.69% 0.4 2560 1.901 30.241 1.909 39.073 -0.84% 0.4 2660 1.901 30.241 1.909 39.002 -0.89% 0.4 2660 1.995 39.158 1.964 39.009 -1.49% 0.4 2660 1.999 30.033 2.016 38.907 -2.64% 0.3 2700										0.27
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<u>2650</u> <u>2.084</u> <u>37.392</u> <u>2.018</u> <u>38.945</u> <u>3.27%</u> <u>-3</u>	2650 2.084 37.392 2.018 38.945 3.27% -3.9 2680 2.118 37.269 2.051 38.907 3.27% -4.2										-3.40
	<u>2680</u> 2.118 <u>37.269</u> 2.051 <u>38.907</u> 3.27% -4.2										-3.68
											-3.99
	2700 2.143 37.190 2.073 38.882 3.38% -4.3										-4.21

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Calibrated for		Tissue Temp	Measured	Measured	Measured	TARGET	TARGET		
Tests Performed	Tissue Type	During Calibration	Frequency	Conductivity,	Dielectric	Conductivity,	Dielectric	% dev σ	% dev a
on:		(°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε		
			2300	1.735	38.002	1.670	39.500	3.89%	-3.79%
			2310	1.743	37.987	1.679	39.480	3.81%	-3.78%
			2320	1.750	37.969	1.687	39.460	3.73%	-3.78%
			2400	1.808	37.831	1.756	39.289	2.96%	-3.71%
			2450 2480	1.845	37.731	1.800	39.200	2.50%	-3.75%
				1.869 1.882	37.685	1.833	39.162	1.96%	-3.77%
08/12/2022	2450 Head	21.6	2500 2510	1.882	37.653 37.638	1.855	39.136 39.123	1.46% 1.29%	-3.79% -3.80%
08/12/2022	2450 Head	21.0	2510	1.890	37.638	1.893	39.123	0.85%	-3.80%
			2535	1.909	37.589	1.893	39.092	0.85%	-3.84%
			2550	1.921	37.539	1.909	39.073	0.63%	-3.89%
			2600	1.961	37.481	1.964	39.000	-0.15%	-3.92%
			2650	2.000	37.377	2.018	38.945	-0.89%	-4.03%
			2680	2.000	37.323	2.051	38.907	-1.32%	-4.07%
			2700	2.024	37.295	2.073	38.882	-1.64%	-4.08%
			5180	4.430	34.763	4.635	36.009	-4.42%	-3.46%
			5190	4.445	34.742	4.645	35.998	-4.31%	-3.49%
			5200	4.458	34.735	4.655	35.986	-4.23%	-3.48%
			5210	4.470	34.717	4.666	35.975	-4.20%	-3.50%
			5220	4.479	34.703	4.676	35.963	-4.21%	-3.50%
			5240	4.497	34.660	4.696	35.940	-4.24%	-3.56%
			5250	4.510	34.633	4.706	35.929	-4.16%	-3.61%
			5260	4.521	34.596	4.717	35.917	-4.16%	-3.68%
			5270	4.532	34.579	4.727	35.906	-4.13%	-3.70%
			5280	4.543	34.577	4.737	35.894	-4.10%	-3.67%
			5290	4.554	34.564	4.748	35.883	-4.09%	-3.68%
			5300	4.565	34.552	4.758	35.871	-4.06%	-3.68%
			5310	4.577	34.535	4.768	35.860	-4.01%	-3.69%
			5320	4.588	34.513	4.778	35.849	-3.98%	-3.73%
			5500	4.784	34.216	4.963	35.643	-3.61%	-4.00%
			5510	4.795	34.188	4.973	35.632	-3.58%	-4.05%
			5520	4.808	34.169	4.983	35.620	-3.51%	-4.07%
			5530	4.821	34.150	4.994	35.609	-3.46%	-4.10%
			5540	4.830	34.137	5.004	35.597	-3.48%	-4.10%
			5550	4.841	34.121	5.014	35.586	-3.45%	-4.12%
			5560	4.852	34.107	5.024	35.574	-3.42%	-4.12%
			5580	4.877	34.073	5.045	35.551	-3.33%	-4.16%
			5600	4.900	34.036	5.065	35.529	-3.26%	-4.20%
			5610	4.910	34.023	5.076	35.518	-3.27%	-4.21%
06/06/2022	5200-5800 Head	20.5	5620	4.921	34.006	5.086	35.506	-3.24%	-4.22%
			5640	4.942	33.975	5.106	35.483	-3.21%	-4.25%
			5660	4.966	33.934	5.127	35.460	-3.14%	-4.30%
			5670	4.978	33.919	5.137	35.449	-3.10%	-4.32%
			5680 5690	4.988 4.998	33.906	5.147 5.158	35.437 35.426	-3.09%	-4.32% -4.35%
			5690	4.998	33.884 33.856	5.158	35.426	-3.10% -3.10%	-4.35%
			5710	5.008	33.833	5.108	35.414	-2.99%	-4.40%
			5710	5.025	33.818	5.178	35.391	-2.99%	-4.43%
			5745	5.059	33.781	5.214	35.363	-2.93%	-4.44%
			5750	5.064	33.773	5.214	35.357	-2.97%	-4.48%
			5755	5.069	33.763	5.224	35.351	-2.97%	-4.49%
			5765	5.083	33.746	5.234	35.340	-2.97%	-4.49%
			5775	5.097	33.718	5.245	35.329	-2.82%	-4.56%
			5785	5.110	33.694	5.255	35.317	-2.76%	-4.60%
			5795	5.119	33.675	5.265	35.305	-2.77%	-4.62%
			5800	5.123	33.668	5.270	35.300	-2.79%	-4.62%
			5805	5.128	33.660	5.275	35.294	-2.79%	-4.63%
			5825	5.156	33.624	5.296	35.271	-2.64%	-4.67%
			5835	5.165	33.605	5.305	35.230	-2.64%	-4.61%
			5845	5.172	33.595	5.315	35.210	-2.69%	-4.59%
			5855	5.183	33.583	5.325	35.197	-2.67%	-4.59%
			5865	5.198	33.565	5.336	35.190	-2.59%	-4.62%
		5875	5.211	33.538	5.347	35.183	-2.54%	-4.68%	
		5885	5.221	33.518	5.357	35.177	-2.54%	-4.72%	
					00.010	0.007	00.111		1 276

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

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9.2 Test System Verification

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

				5	System	Verific	cation	Results	s – 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 (%)		
AM12	750	HEAD	06/12/2022	22.0	21.0	0.20	1094	7499	1.770	8.47	8.850	4.49%		
AM12	750	HEAD	06/16/2022	24.3	23.2	0.20	1094	7499	1.760	8.47	8.800	3.90%		
AM3	750	HEAD	07/29/2022	24.5	23.3	0.20	1097	7427	1.620	8.21	8.100	-1.34%		
AM14	835	HEAD	06/17/2022	20.2	20.5	0.20	4d040	7674	1.970	9.79	9.850	0.61%		
AM5	835	HEAD	07/24/2022	20.3	18.9	0.20	4d040	7490	1.930	9.79	9.650	-1.43%		
AM5	835	HEAD	07/26/2022	21.6	18.7	0.20	460	7490	1.840	9.72	9.200	-5.35%		
AM1	1750	HEAD	06/15/2022	21.9	21.5	0.10	1104	7639	3.850	35.70	38.500	7.84%		
AM1	1750	HEAD	06/15/2022	21.9	21.5	0.10	1104	7639	3.850	35.70	38.500	7.84%		
AM6	1900	HEAD	06/12/2022	20.5	21.3	0.10	5d030	7532	4.260	39.80	42.600	7.04%		
AM6	1900	HEAD	06/14/2022	23.1	18.1	0.10	5d030	7532	4.180	39.80	41.800	5.03%		
AM4	2450	HEAD	06/10/2022	23.3	21.2	0.10	750	3837	5.350	52.60	53.500	1.71%		
AM10	2450	HEAD	06/14/2022	23.4	21.8	0.10	750	7308	5.260	52.60	52.600	0.00%		
AM3	2450	HEAD	06/14/2022	23.5	22.6	0.10	921	7427	5.230	54.20	52.300	-3.51%		
AM2	2450	HEAD	08/12/2022	21.9	20.6	0.10	921	7421	5.750	54.20	57.500	6.09%		
AM4	2600	HEAD	06/10/2022	23.3	21.2	0.10	1042	3837	5.860	55.80	58.600	5.02%		
AM10	2600	HEAD	06/14/2022	23.4	21.8	0.10	1042	7308	5.700	55.80	57.000	2.15%		
AM9	5250	HEAD	06/06/2022	21.6	20.5	0.05	1123	7638	3.790	80.50	75.800	-5.84%		
AM9	5600	HEAD	06/06/2022	21.6	20.5	0.05	1123	7638	3.900	83.70	78.000	-6.81%		
AM9	5750	HEAD	06/06/2022	21.6	20.5	0.05	1123	7638	3.810	80.50	76.200	-5.34%		

Table 9-2
System Verification Results – 1g

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-				3	system	verific	ation	Results	s – 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 (%)		
AM12	750	HEAD	06/14/2022	21.7	23.8	0.20	1094	7499	1.200	5.57	6.000	7.72%		
AM3	750	HEAD	07/27/2022	21.1	21.1	0.20	1097	7427	1.120	5.34	5.600	4.87%		
AM14	835	HEAD	06/14/2022	21.0	20.5	0.20	4d040	7674	1.200	6.38	6.000	-5.96%		
AM5	835	HEAD	07/24/2022	20.3	18.9	0.20	4d040	7490	1.260	6.38	6.300	-1.25%		
AM5	835	HEAD	07/26/2022	21.6	18.7	0.20	460	7490	1.200	6.34	6.000	-5.36%		
AM13	1750	HEAD	06/24/2022	20.8	18.6	0.10	1104	7360	1.810	18.80	18.100	-3.72%		
AM13	1750	HEAD	07/25/2022	21.7	21.3	0.10	1083	7360	1.830	19.20	18.300	-4.69%		
AM6	1900	HEAD	06/12/2022	20.5	21.3	0.10	5d030	7532	2.190	20.40	21.900	7.35%		
AM6	1900	HEAD	06/14/2022	23.1	18.1	0.10	5d030	7532	2.160	20.40	21.600	5.88%		
AM4	2450	HEAD	06/12/2022	23.5	21.7	0.10	750	3837	2.390	24.50	23.900	-2.45%		
AM3	2450	HEAD	06/12/2022	23.5	24.6	0.10	921	7427	2.460	25.50	24.600	-3.53%		
AM10	2450	HEAD	06/14/2022	23.4	21.8	0.10	750	7308	2.440	24.50	24.400	-0.41%		
AM4	2600	HEAD	06/12/2022	23.5	21.7	0.10	1042	3837	2.560	24.90	25.600	2.81%		
AM10	2600	HEAD	06/14/2022	23.4	21.8	0.10	1042	7308	2.550	24.90	25.500	2.41%		
AM9	5250	HEAD	06/06/2022	21.6	20.5	0.05	1123	7638	1.080	22.90	21.600	-5.68%		
AM9	5600	HEAD	06/06/2022	21.6	20.5	0.05	1123	7638	1.110	23.70	22.200	-6.33%		
AM9	5750	HEAD	06/06/2022	21.6	20.5	0.05	1123	7638	1.090	22.70	21.800	-3.96%		

Table 9-3 System Verification Results – 10g

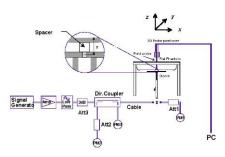


Figure 9-1 System Verification Setup Diagram



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															
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Housing Type	Wristband	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position		Туре	Number	Cycle	(W/kg)	Factor	(W/kg)	
836.60	4183	UMTS 850	RMC	25.00	24.03	-0.06	Front	10 mm	Aluminum	Sport	QGYVW9YXV7	1:1	0.000	1.250	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.03	0.00	Front	10 mm	Aluminum	Metal Links	QGYVW9YXV7	1:1	0.000	1.250	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.03	-0.16	Front	10 mm	Aluminum	Metal Loop	QGYVW9YXV7	1:1	0.000	1.250	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.03	-0.02	Front	10 mm	Stainless Steel	Sport	X4QKKG6X7T	1:1	0.000	1.250	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.03	-0.19	Front	10 mm	Stainless Steel	Metal Links	X4QKKG6X7T	1:1	0.000	1.250	0.000	
836.60	4183	UMTS 850	RMC	25.00	24.03	0.00	Front	10 mm	Stainless Steel	Metal Loop	X4QKKG6X7T	1:1	0.001	1.250	0.001	A1
		ANSI / IEE	E C95.1 1992	- SAFETY LI	MIT						Head					
			Spatial Pe	ak							1.6 W/kg (n	nW/g)				
		Uncontrolled	Exposure/G	eneral Popul	ation						averaged over	1 gram				

Table 10-2 UMTS 1750 Head SAR Data

							MEAS	UREMEN	T RESULTS							
FREQUE	INCY	Mode	Service	Maxim um Allowed	Conducted	Power	Side	Test	Housing Type	Wristband	Device Serial	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position		Туре	Number	, -,	(W/kg)	g	(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	0.01	Front	10 mm	Auminum	Sport	MG9RCVQ2V9	1:1	0.205	1.227	0.252	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	0.03	Front	10 mm	Auminum	Metal Links	MG9RCVQ2V9	1:1	0.257	1.227	0.315	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	-0.01	Front	10 mm	Auminum	Metal Loop	MG9RCVQ2V9	1:1	0.284	1.227	0.348	A2
1732.40	1412	UMTS 1750	RMC	24.00	23.11	0.00	Front	10 mm	Stainless Steel	Sport	GMF3306DQ3	1:1	0.118	1.227	0.145	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	-0.01	Front	10 mm	Stainless Steel	Metal Links	GMF3306DQ3	1:1	0.157	1.227	0.193	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	0.04	Front	10 mm	Stainless Steel	Metal Loop	GMF3306DQ3	1:1	0.225	1.227	0.276	
		ANSI / IEE	- E C95.1 1992 Spatial Pea		т						Hea 1.6 W/kg					
		Uncontrolle	d Exposure/Ge		tion						averaged ov	-				

Table 10-3 UMTS 1900 Head SAR Data

	MEASUREMENT RESULTS															
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Housing Type	Wristband	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.	mode	0011100	Power [dBm]	Power [dBm]	Drift [dB]	0100	Position	nousing type	Туре	Number	Cycle	(W/kg)	Factor	(W/kg)	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	0.02	Front	10 mm	Aluminum	Sport	JYHCFGFXW6	1:1	0.366	1.239	0.453	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.05	Front	10 mm	Aluminum	Metal Links	JYHCFGFXW6	1:1	0.396	1.239	0.491	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.07	Front	10 mm	Aluminum	Metal Loop	JYHCFGFXW6	1:1	0.457	1.239	0.566	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.03	Front	10 mm	Stainless Steel	Sport	R4YW5F4DW9	1:1	0.359	1.239	0.445	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.05	Front	10 mm	Stainless Steel	Metal Links	R4YW5F4DW9	1:1	0.389	1.239	0.482	
1852.40	9262	UMTS 1900	RMC	24.00	23.06	0.06	Front	10 mm	Stainless Steel	Metal Loop	R4YW5F4DW9	1:1	0.519	1.242	0.645	
1880.00	9400	UMTS 1900	RMC	24.00	23.03	-0.01	Front	10 mm	Stainless Steel	Metal Loop	R4YW5F4DW9	1:1	0.607	1.250	0.759	A3
1907.60	9538	UMTS 1900	RMC	24.00	23.07	0.07	Front	10 mm	Stainless Steel	Metal Loop	R4YW5F4DW9	1:1	0.485	1.239	0.601	
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 10-4 LTE Band 12 Head SAR Data

									MEA	SURE	IENT RE	SULTS									
F	REQUENCY		Mode	Bandwidth	Wristband Type	Maximum Allowed	Conducted	Power	MPR (dB)	Side	Test	Housing Type	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	c	h.		[MHz]		Power [dBm]	Power [dBm]	Drift [dB]			Position					Number	Cycle	(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.74	0.20	0	Front	10 mm	Aluminum	QPSK	1	25	JYHCFGFXW6	1:1	0.001	1.191	0.001	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.95	-0.05	1	Front	10 mm	Aluminum	QPSK	25	25	JYHCFGFXW6	1:1	0.000	1.135	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.74	0.09	0	Front	10 mm	Aluminum	QPSK	1	25	JYHCFGFXW6	1:1	0.002	1.191	0.002	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.95	0.03	1	Front	10 mm	Aluminum	QPSK	25	25	JYHCFGFXW6	1:1	0.002	1.135	0.002	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.74	0.02	0	Front	10 mm	Aluminum	QPSK	1	25	JYHCFGFXW6	1:1	0.000	1.191	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.95	0.04	1	Front	10 mm	Aluminum	QPSK	25	25	JYHCFGFXW6	1:1	0.000	1.135	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	25.50	24.74	0.01	0	Front	10 mm	Stainless Steel	QPSK	1	25	KMW0XWRMWQ	1:1	0.000	1.191	0.000	
707.50	23095	Mid	LTE Band 12	10	Sport	24.50	23.95	0.02	1	Front	10 mm	Stainless Steel	QPSK	25	25	KMW0XWRMWQ	1:1	0.000	1.135	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.50	24.74	0.02	0	Front	10 mm	Stainless Steel	QPSK	1	25	KMW0XWRMWQ	1:1	0.000	1.191	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.50	23.95	0.09	1	Front	10 mm	Stainless Steel	QPSK	25	25	KMW0XWRMWQ	1:1	0.005	1.135	0.006	A4
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.50	24.74	0.03	0	Front	10 mm	Stainless Steel	QPSK	1	25	KMW0XWRMWQ	1:1	0.000	1.191	0.000	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.50	23.95	0.04	1	Front	10 mm	Stainless Steel	QPSK	25	25	KMW0XWRMWQ	1:1	0.002	1.135	0.002	
	ANSI / IEEE C95. 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										_					Head //kg (mW/g) ed over 1 gram					

Table 10-5 LTE Band 13 Head SAR Data

									MEA	SUREN	IENT RE	SULTS									
FI	REQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maxim um Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	C	h.		[MH2]		Power [dBm]	Power [dbm]	Drift [db]			Position					Number	Cycle	(W/kg)	-	(W/kg)	
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.98	0.10	0	Front	10 mm	Aluminum	QPSK	1	0	RWHV29PJ4W	1:1	0.002	1.127	0.002	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.92	0.05	1	Front	10 mm	Auminum	QPSK	25	0	RWHV29PJ4W	1:1	0.002	1.143	0.002	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.98	0.20	0	Front	10 mm	Aluminum	QPSK	1	0	RWHV29PJ4W	1:1	0.000	1.127	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.92	0.06	1	Front	10 mm	Aluminum	QPSK	25	0	RWHV29PJ4W	1:1	0.000	1.143	0.000	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.98	0.06	0	Front	10 mm	Aluminum	QPSK	1	0	RWHV29PJ4W	1:1	0.002	1.127	0.002	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.92	0.20	1	Front	10 mm	Aluminum	QPSK	25	0	RWHV29PJ4W	1:1	0.002	1.143	0.002	
782.00	23230	Mid	LTE Band 13	10	Sport	25.50	24.98	0.02	0	Front	10 mm	Stainless Steel	QPSK	1	0	CPHTM44WJ3	1:1	0.000	1.127	0.000	
782.00	23230	Mid	LTE Band 13	10	Sport	24.50	23.92	0.10	1	Front	10 mm	Stainless Steel	QPSK	25	0	CPHTM44WJ3	1:1	0.003	1.143	0.003	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.50	24.98	0.09	0	Front	10 mm	Stainless Steel	QPSK	1	0	CPHTM44WJ3	1:1	0.002	1.127	0.002	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.50	23.92	-0.12	1	Front	10 mm	Stainless Steel	QPSK	25	0	CPHTM44WJ3	1:1	0.005	1.143	0.006	A5
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.50	24.98	0.07	0	Front	10 mm	Stainless Steel	QPSK	1	0	CPHTM44WJ3	1:1	0.001	1.127	0.001	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.50	23.92	0.05	1	Front	10 mm	Stainless Steel	QPSK	25	0	CPHTM44WJ3	1:1	0.002	1.143	0.002	
	ANSI / IEEE CSE.1 1932 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head //kg (mW/g) ed over 1 gram					

Table 10-6 LTE Band 14 Head SAR Data

									MEA	SUREN	IENT RE	SULTS									
FI	REQUENCY	,	Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	c	h.		[]		Power [dBm]	rower [dbin]	Brint [dB]			rosidon					hamber	oyele	(W/kg)		(W/kg)	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.69	0.04	0	Front	10 mm	Aluminum	QPSK	1	25	N7W74KJXXK	1:1	0.001	1.205	0.001	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.88	0.06	1	Front	10 mm	Aluminum	QPSK	25	25	N7W74KJXXK	1:1	0.000	1.153	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.69	0.05	0	Front	10 mm	Aluminum	QPSK	1	25	N7W74KJXXK	1:1	0.003	1.205	0.004	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.88	0.05	1	Front	10 mm	Aluminum	QPSK	25	25	N7W74KJXXK	1:1	0.001	1.153	0.001	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.69	0.09	0	Front	10 mm	Aluminum	QPSK	1	25	N7W74KJXXK	1:1	0.001	1.205	0.001	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.88	0.08	1	Front	10 mm	Aluminum	QPSK	25	25	N7W74KJXXK	1:1	0.001	1.153	0.001	
793.00	23330	Mid	LTE Band 14	10	Sport	25.50	24.69	0.00	0	Front	10 mm	Stainless Steel	QPSK	1	25	X4QKKG6X7T	1:1	0.003	1.205	0.004	
793.00	23330	Mid	LTE Band 14	10	Sport	24.50	23.88	0.09	1	Front	10 mm	Stainless Steel	QPSK	25	25	X4QKKG6X7T	1:1	0.002	1.153	0.002	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.50	24.69	-0.01	0	Front	10 mm	Stainless Steel	QPSK	1	25	X4QKKG6X7T	1:1	0.002	1.205	0.002	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.50	23.88	0.02	1	Front	10 mm	Stainless Steel	QPSK	25	25	X4QKKG6X7T	1:1	0.000	1.153	0.000	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.50	24.69	0.13	0	Front	10 mm	Stainless Steel	QPSK	1	25	X4QKKG6X7T	1:1	0.003	1.205	0.004	A6
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.50	23.88	0.04	1	Front	10 mm	Stainless Steel	QPSK	25	25	X4QKKG6X7T	1:1	0.002	1.153	0.002	
	ANSI / IEEE CS5.1 1932 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														1.6 W	Head //kg (mW/g) ed over 1 gram					

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Table 10-7 LTE Band 26 Head SAR Data

									MEA	SURE	IENT RE	SULTS									
F	REQUENCY		Mode	Bandwidth	Wristband Type	Maximum Allowed	Conducted	Power	MPR (dB)	Side	Test	Housing Type	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	C	h.		[MHz]		Power [dBm]	Power [dBm]	Drift [dB]			Position					Number	Cycle	(W/kg)		(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.50	24.53	0.02	0	Front	10 mm	Aluminum	QPSK	1	25	QGYVW9YXV7	1:1	0.000	1.250	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.50	23.63	0.06	1	Front	10 mm	Aluminum	QPSK	25	0	QGYVW9YXV7	1:1	0.000	1.222	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.50	24.53	0.06	0	Front	10 mm	Aluminum	QPSK	1	25	QGYVW9YXV7	1:1	0.000	1.250	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.50	23.63	0.13	1	Front	10 mm	Aluminum	QPSK	25	0	QGYVW9YXV7	1:1	0.000	1.222	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.53	0.01	0	Front	10 mm	Auminum	QPSK	1	25	QGYVW9YXV7	1:1	0.000	1.250	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.63	0.00	1	Front	10 mm	Aluminum	QPSK	25	0	QGYVW9YXV7	1:1	0.000	1.222	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.50	24.53	0.08	0	Front	10 mm	Stainless Steel	QPSK	1	25	KMW0XWRMWQ	1:1	0.000	1.250	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.50	23.63	0.04	1	Front	10 mm	Stainless Steel	QPSK	25	0	KMW0XWRMWQ	1:1	0.000	1.222	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.50	24.53	0.01	0	Front	10 mm	Stainless Steel	QPSK	1	25	KMW0XWRMWQ	1:1	0.000	1.250	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.50	23.63	0.08	1	Front	10 mm	Stainless Steel	QPSK	25	0	KMW0XWRMWQ	1:1	0.000	1.222	0.000	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.50	24.53	0.01	0	Front	10 mm	Stainless Steel	QPSK	1	25	KMW0XWRMWQ	1:1	0.001	1.250	0.001	A7
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.50	23.63	0.07	1	Front	10 mm	Stainless Steel	QPSK	25	0	KMW0XWRMWQ	1:1	0.000	1.222	0.000	
				Spa	.1 1992 - SAFET atial Peak osure/General P		-									Head V/kg (mW/g) ed over 1 gram					

Table 10-8LTE Band 5 Head SAR Data

									ME	ASURE	MENT R	ESULTS									
FR	REQUENCY	(Mode	Bandwidth (MHz1	Wristband Type	Maximum	Conducted Power (dBm)	Power Drift [dB]	MPR [dB]	Side	Test Position	Housing Type	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	с	h.		[MHZ]		Power [dBm]	Power (dBm)	υνιπ (αΒ)			Position					Number	Cycle	(W/kg)	Factor	(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.53	0.20	0	Front	10 mm	Aluminum	QPSK	1	49	G5PXJ3997T	1:1	0.000	1.250	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.49	0.06	1	Front	10 mm	Aluminum	QPSK	25	12	G5PXJ3997T	1:1	0.000	1.262	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.53	0.20	0	Front	10 mm	Aluminum	QPSK	1	49	G5PXJ3997T	1:1	0.000	1.250	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.49	0.05	1	Front	10 mm	Aluminum	QPSK	25	12	G5PXJ3997T	1:1	0.002	1.262	0.003	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.53	0.09	0	Front	10 mm	Aluminum	QPSK	1	49	G5PXJ3997T	1:1	0.002	1.250	0.003	A8
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.49	0.05	1	Front	10 mm	Aluminum	QPSK	25	12	G5PXJ3997T	1:1	0.002	1.262	0.003	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.50	24.53	0.06	0	Front	10 mm	Stainless Steel	QPSK	1	49	CPHTM44WJ3	1:1	0.001	1.250	0.001	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.50	23.49	0.05	1	Front	10 mm	Stainless Steel	QPSK	25	12	CPHTM44WJ3	1:1	0.000	1.262	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.50	24.53	0.04	0	Front	10 mm	Stainless Steel	QPSK	1	49	CPHTM44WJ3	1:1	0.000	1.250	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.50	23.49	0.09	1	Front	10 mm	Stainless Steel	QPSK	25	12	CPHTM44WJ3	1:1	0.000	1.262	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.50	24.53	0.05	0	Front	10 mm	Stainless Steel	QPSK	1	49	CPHTM44WJ3	1:1	0.000	1.250	0.000	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.50	23.49	0.20	1	Front	10 mm	Stainless Steel	QPSK	25	12	CPHTM44WJ3	1:1	0.000	1.262	0.000	
				Spa	1992 - SAFE tial Peak sure/General F											Head I/kg (mW/g) ed over 1 gram					

Table 10-9 LTE Band 66 Head SAR Data

									MEA	SURE	IENT RE	SULTS									
FF MHz	REQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
1720.00	132072		LTE Band 66 (AWS)	20	Sport	24.50	23.55	0.07	0	Front	10 mm	Aluminum	QPSK	1	99	MG9RCVQ2V9	1:1	0.216	1.245	0.269	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.72	-0.04	1	Front	10 mm	Auminum	QPSK	50	50	MG9RCVQ2V9	1:1	0.204	1.197	0.244	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.55	-0.03	0	Front	10 mm	Aluminum	QPSK	1	99	MG9RCVQ2V9	1:1	0.267	1.245	0.332	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.72	-0.09	1	Front	10 mm	Auminum	QPSK	50	50	MG9RCVQ2V9	1:1	0.253	1.197	0.303	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.55	-0.03	0	Front	10 mm	Aluminum	QPSK	1	99	MG9RCVQ2V9	1:1	0.419	1.245	0.522	A9
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.72	-0.07	1	Front	10 mm	Auminum	QPSK	50	50	MG9RCVQ2V9	1:1	0.399	1.197	0.478	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.50	23.55	0.13	0	Front	10 mm	Stainless Steel	QPSK	1	99	GMF3306DQ3	1:1	0.121	1.245	0.151	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.50	22.72	-0.03	1	Front	10 mm	Stainless Steel	QPSK	50	50	GMF3306DQ3	1:1	0.109	1.197	0.130	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.50	23.55	-0.08	0	Front	10 mm	Stainless Steel	QPSK	1	99	GMF3306DQ3	1:1	0.222	1.245	0.276	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.50	22.72	0.09	1	Front	10 mm	Stainless Steel	QPSK	50	50	GMF3306DQ3	1:1	0.210	1.197	0.251	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.50	23.55	-0.05	0	Front	10 mm	Stainless Steel	QPSK	1	99	GMF3306DQ3	1:1	0.312	1.245	0.388	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.50	22.72	-0.04	1	Front	10 mm	Stainless Steel	QPSK	50	50	GMF3306DQ3	1:1	0.303	1.197	0.363	
				Sp	.1 1992 - SAFET atial Peak osure/General P				Head 1.6 W/kg (mW/g) averaged over 1 gram												
			C A 2774						SAR EVALUATION REPORT Approved										d by:		

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PCC ID: BCG-A2774	JAK EVALUATION REPORT	Technical Manager
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Table 10-10 LTE Band 25 Head SAR Data

									MEA	SURE	IENT RE	SULTS									
FI	REQUENCY		Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR (dB)	Side	Test Position	Housing Type	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	с	h.		[MHZ]		Power [dBm]	Power [dBm]	Drift (dB)			Position					Number	Cycle	(W/kg)		(W/kg)	
1905.00	26590	High	LTE Band 25 (PCS)	20	Sport	24.50	23.71	0.00	0	Front	10 mm	Aluminum	QPSK	1	50	RWHV29PJ4W	1:1	0.348	1.199	0.417	
1905.00	26590	High	LTE Band 25 (PCS)	20	Sport	23.50	22.84	-0.01	1	Front	10 mm	Aluminum	QPSK	50	50	RWHV29PJ4W	1:1	0.285	1.164	0.332	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Links	24.50	23.71	0.02	0	Front	10 mm	Aluminum	QPSK	1	50	RWHV29PJ4W	1:1	0.411	1.199	0.493	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Links	23.50	22.84	0.02	1	Front	10 mm	Aluminum	QPSK	50	50	RWHV29PJ4W	1:1	0.355	1.164	0.413	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.71	-0.05	0	Front	10 mm	Aluminum	QPSK	1	50	RWHV29PJ4W	1:1	0.481	1.199	0.577	A10
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.84	0.02	1	Front	10 mm	Auminum	QPSK	50	50	RWHV29PJ4W	1:1	0.386	1.164	0.449	
1905.00	26590	High	LTE Band 25 (PCS)	20	Sport	24.50	23.71	0.02	0	Front	10 mm	Stainless Steel	QPSK	1	50	M6RW9PY74H	1:1	0.440	1.199	0.528	
1905.00	26590	High	LTE Band 25 (PCS)	20	Sport	23.50	22.84	-0.03	1	Front	10 mm	Stainless Steel	QPSK	50	50	M6RW9PY74H	1:1	0.294	1.164	0.342	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Links	24.50	23.71	0.07	0	Front	10 mm	Stainless Steel	QPSK	1	50	M6RW9PY74H	1:1	0.384	1.199	0.460	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Links	23.50	22.84	-0.05	1	Front	10 mm	Stainless Steel	QPSK	50	50	M6RW9PY74H	1:1	0.311	1.164	0.362	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Loop	24.50	23.71	-0.03	0	Front	10 mm	Stainless Steel	QPSK	1	50	M6RW9PY74H	1:1	0.455	1.199	0.546	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Loop	23.50	22.84	0.03	1	Front	10 mm	Stainless Steel	QPSK	50	50	M6RW9PY74H	1:1	0.359	1.164	0.418	
				Spi	.1 1992 - SAFET atial Peak sure/General P						,					Head //kg (mW/g) ed over 1 gram					

Table 10-11 LTE Band 7 Head SAR Data

									ME	ASURE	MENT R	ESULTS									
FR	EQUENCY	(Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed	Conducted Power (dBm)	Power Drift [dB]	MPR [dB]	Side	Test Position	Housing Type	Modulation	RB Size	RB Offset	Device Serial Number	Duty	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	с	h.		[MHZ]		Power [dBm]	Power (aBm)	υνιπ (αΒ)			Position					Number	Cycle	(W/kg)	Factor	(W/kg)	
2535.00	21100	Mid	LTE Band 7	20	Sport	23.50	22.89	-0.11	0	Front	10 mm	Aluminum	QPSK	1	99	MG9RCVQ2V9	1:1	0.493	1.151	0.567	A11
2535.00	21100	Mid	LTE Band 7	20	Sport	22.50	21.80	-0.02	1	Front	10 mm	Aluminum	QPSK	50	50	MG9RCVQ2V9	1:1	0.427	1.175	0.502	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	23.50	22.89	-0.01	0	Front	10 mm	Aluminum	QPSK	1	99	MG9RCVQ2V9	1:1	0.411	1.151	0.473	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	22.50	21.80	-0.06	1	Front	10 mm	Aluminum	QPSK	50	50	MG9RCVQ2V9	1:1	0.285	1.175	0.335	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	23.50	22.89	-0.13	0	Front	10 mm	Aluminum	QPSK	1	99	MG9RCVQ2V9	1:1	0.432	1.151	0.497	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	22.50	21.80	-0.07	1	Front	10 mm	Aluminum	QPSK	50	50	MG9RCVQ2V9	1:1	0.322	1.175	0.378	
2535.00	21100	Mid	LTE Band 7	20	Sport	23.50	22.89	-0.06	0	Front	10 mm	Stainless Steel	QPSK	1	99	R4YW5F4DW9	1:1	0.430	1.151	0.495	
2535.00	21100	Mid	LTE Band 7	20	Sport	22.50	21.80	-0.07	1	Front	10 mm	Stainless Steel	QPSK	50	50	R4YW5F4DW9	1:1	0.383	1.175	0.450	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	23.50	22.89	-0.02	0	Front	10 mm	Stainless Steel	QPSK	1	99	R4YW5F4DW9	1:1	0.315	1.151	0.363	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	22.50	21.80	-0.03	1	Front	10 mm	Stainless Steel	QPSK	50	50	R4YW5F4DW9	1:1	0.306	1.175	0.360	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	23.50	22.89	-0.05	0	Front	10 mm	Stainless Steel	QPSK	1	99	R4YW5F4DW9	1:1	0.331	1.151	0.381	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	22.50	21.80	-0.02	1	Front	10 mm	Stainless Steel	QPSK	50	50	R4YW5F4DW9	1:1	0.253	1.175	0.297	
			ANSI /		1992 - SAFE	TY LIMIT										Head					
			Uncente) an ulation															
				Spa	tial Peak sure/General F											//kg (mW/g) ed over 1 gram					

Table 10-12 LTE Band 41 Head SAR Data

											IENT RE			~							
									ME	ASUREN	IENIRE	SULIS									
F	REQUENCY	(Mode	Bandwidth	Wristband Type	Maxim um Allowed	Conducted Power [dBm]	Power	MPR [dB]	Side	Test	Housing Type	Modulation	RB Size	RB Offset	Device Serial	Duty	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	c	Ch.		[MHz]		Power [dBm]	Power [dBm]	Drift [dB]			Position					Number	Cycle	(W/kg)	-	(W/kg)	
2636.50	41055	Mid- High	LTE Band 41	20	Sport	24.00	23.24	-0.06	0	Front	10 mm	Aluminum	QPSK	1	50	MG9RCVQ2V9	1:1.58	0.274	1.191	0.326	A12
2636.50	41055	Mid- High	LTE Band 41	20	Sport	23.00	22.17	-0.02	1	Front	10 mm	Aluminum	QPSK	50	50	MG9RCVQ2V9	1:1.58	0.209	1.211	0.253	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Links	24.00	23.24	-0.04	0	Front	10 mm	Aluminum	QPSK	1	50	MG9RCVQ2V9	1:1.58	0.202	1.191	0.241	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Links	23.00	22.17	0.03	1	Front	10 mm	Aluminum	QPSK	50	50	MG9RCVQ2V9	1:1.58	0.159	1.211	0.193	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Loop	24.00	23.24	0.04	0	Front	10 mm	Aluminum	QPSK	1	50	MG9RCVQ2V9	1:1.58	0.195	1.191	0.232	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Loop	23.00	22.17	-0.07	1	Front	10 mm	Auminum	QPSK	50	50	MG9RCVQ2V9	1:1.58	0.155	1.211	0.188	
2636.50	41055	Mid- High	LTE Band 41	20	Sport	24.00	23.24	0.02	0	Front	10 mm	Stainless Steel	QPSK	1	50	X4QKKG6X7T	1:1.58	0.238	1.191	0.283	
2636.50	41055	Mid- High	LTE Band 41	20	Sport	23.00	22.17	-0.07	1	Front	10 mm	Stainless Steel	QPSK	50	50	X4QKKG6X7T	1:1.58	0.184	1.211	0.223	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Links	24.00	23.24	-0.04	0	Front	10 mm	Stainless Steel	QPSK	1	50	X4QKKG6X7T	1:1.58	0.149	1.191	0.177	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Links	23.00	22.17	-0.06	1	Front	10 mm	Stainless Steel	QPSK	50	50	X4QKKG6X7T	1:1.58	0.118	1.211	0.143	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Loop	24.00	23.24	0.01	0	Front	10 mm	Stainless Steel	QPSK	1	50	X4QKKG6X7T	1:1.58	0.217	1.191	0.258	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Loop	23.00	22.17	0.04	1	Front	10 mm	Stainless Steel	QPSK	50	50	X4QKKG6X7T	1:1.58	0.171	1.211	0.207	
			ANS		.1 1992 - SAFET	Y LIMIT										Head					
					atial Peak					1.6 W/kg (mW/g) averaged over 1 gram											
		-	Uncor	trolled Expo	osure/General P	opulation	·	· · · · ·			,				average	ed over 1 gram					
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Table 10-13 2.4GHz WLAN Head SAR Data

									MEASUF	REMENT RES	BULTS								
FREQUE	ENCY	Mode	Service	Bandwidth	Maxim um Allowed	Conducted	Power	Side	Test	Housing Type	Wristband Type	Device Serial			SAR (1g)		Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Position			Number	(Mbps)	(%)	(W/kg)	(Power)	(Duty Cycle)	(W/kg)	Ĺ
2437	6	802.11b	DSSS	22	19.00	18.02	-0.06	Front	10 mm	Auminum	Sport	MG9RCVQ2V9	1	99.6	0.268	1.253	1.004	0.337	
2437	6	802.11b	DSSS	22	19.00	18.02	-0.02	Front	10 mm	Auminum	Metal Links	MG9RCVQ2V9	1	99.6	0.260	1.253	1.004	0.327	
2437	6	802.11b	DSSS	22	19.00	18.02	0.03	Front	10 mm	Auminum	Metal Loop	MG9RCVQ2V9	1	99.6	0.209	1.253	1.004	0.263	
2437	6	802.11b	DSSS	22	19.00	18.02	-0.01	Front	10 mm	Stainless Steel	Sport	M6RW9PY74H	1	99.6	0.272	1.253	1.004	0.342	A13
2437	6	802.11b	DSSS	22	19.00	18.02	-0.03	Front	10 mm	Stainless Steel	Metal Links	M6RW9PY74H	1	99.6	0.184	1.253	1.004	0.231	
2437	6	802.11b	DSSS	22	19.00	18.02	-0.01	Front	10 mm	Stainless Steel	Metal Loop	M6RW9PY74H	1	99.6	0.218	1.253	1.004	0.274	
			/ IEEE C95.1 Spati olled Exposu	al Peak									Hea 1.6 W/kg averaged ov	(mW/g)					

Table 10-14 5GHz WLAN Head SAR Data

									MEASU	REMENT RE	SULTS								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Side	Test	Housing Type	Wristband	Device Serial		Duty Cycle	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Position		Туре	Number	(Mbps)	(%)	(W/kg)	(Power)	Cycle)	(W/kg)	
5280	56	802.11a	OFDM	20	17.00	16.04	0.02	Front	10 mm	Aluminum	Sport	JYHCFGFXW6	6	98.5	0.023	1.247	1.015	0.029	
5280	56	802.11a	OFDM	20	17.00	16.04	-0.20	Front	10 mm	Aluminum	Metal Links	JYHCFGFXW6	6	98.5	0.024	1.247	1.015	0.030	
5280	56	802.11a	OFDM	20	17.00	16.04	0.00	Front	10 mm	Aluminum	Metal Loop	JYHCFGFXW6	6	98.5	0.026	1.247	1.015	0.033	
5280	56	802.11a	OFDM	20	17.00	16.04	0.00	Front	10 mm	Stainless Steel	Sport	R4YW5F4DW9	6	98.5	0.025	1.247	1.015	0.032	
5280	56	802.11a	OFDM	20	17.00	16.04	0.00	Front	10 mm	Stainless Steel	Metal Links	R4YW5F4DW9	6	98.5	0.027	1.247	1.015	0.034	
5280	56	802.11a	OFDM	20	17.00	16.04	0.00	Front	10 mm	Stainless Steel	Metal Loop	R4YW5F4DW9	6	98.5	0.027	1.247	1.015	0.034	
5600	120	802.11a	OFDM	20	17.00	16.09	0.00	Front	10 mm	Aluminum	Sport	JYHCFGFXW6	6	98.5	0.041	1.233	1.015	0.051	
5600	120	802.11a	OFDM	20	17.00	16.09	-0.02	Front	10 mm	Aluminum	Metal Links	JYHCFGFXW6	6	98.5	0.043	1.233	1.015	0.054	
5600	120	802.11a	OFDM	20	17.00	16.09	0.01	Front	10 mm	Aluminum	Metal Loop	JYHCFGFXW6	6	98.5	0.038	1.233	1.015	0.048	
5600	120	802.11a	OFDM	20	17.00	16.09	0.01	Front	10 mm	Stainless Steel	Sport	R4YW5F4DW9	6	98.5	0.024	1.233	1.015	0.030	
5600	120	802.11a	OFDM	20	17.00	16.09	0.00	Front	10 mm	Stainless Steel	Metal Links	R4YW5F4DW9	6	98.5	0.028	1.233	1.015	0.035	
5600	120	802.11a	OFDM	20	17.00	16.09	0.00	Front	10 mm	Stainless Steel	Metal Loop	R4YW5F4DW9	6	98.5	0.020	1.233	1.015	0.025	
5825	165	802.11a	OFDM	20	17.00	15.98	-0.01	Front	10 mm	Aluminum	Sport	JYHCFGFXW6	6	98.5	0.054	1.265	1.015	0.069	
5825	165	802.11a	OFDM	20	17.00	15.98	-0.01	Front	10 mm	Aluminum	Metal Links	JYHCFGFXW6	6	98.5	0.055	1.265	1.015	0.071	A14
5825	165	802.11a	OFDM	20	17.00	15.98	0.16	Front	10 mm	Aluminum	Metal Loop	JYHCFGFXW6	6	98.5	0.053	1.265	1.015	0.068	
5825	165	802.11a	OFDM	20	17.00	15.98	0.01	Front	10 mm	Stainless Steel	Sport	R4YW5F4DW9	6	98.5	0.053	1.265	1.015	0.068	
5825	165	802.11a	OFDM	20	17.00	15.98	0.01	Front	10 mm	Stainless Steel	Metal Links	R4YW5F4DW9	6	98.5	0.037	1.265	1.015	0.048	
5825	165	802.11a	OFDM	20	17.00	15.98	0.00	Front	10 mm	Stainless Steel	Metal Loop	R4YW5F4DW9	6	98.5	0.049	1.265	1.015	0.063	
		ANSI /	IEEE C95.1	1992 - SAF	ETY LIMIT								Hea	d					
			Spati	ial Peak									1.6 W/kg	(mW/g)					
		Uncontro	lled Exposi	ure/Genera	al Population	1						av	eraged ov	er 1 gram					

Table 10-15 Bluetooth WLAN Head SAR Data

								MEAS	SUREMENT	RESULTS								
FREQUE	NCY	Mode	Service	Maximum	Conducted	Power	Side	Test	Housing Type	Wristband	Device Serial	Data Rate	Duty Cycle	SAR (1g)	Scaling Factor	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	wode	Service	Allowed Power [dBm]	Power [dBm]	Drift [dB]	Side	Position	Housing Type	Туре	Number	(Mbps)	(%)	(W/kg)	(Cond Power)	(Duty Cycle)	(W/kg)	Plot #
2480.00	78	Bluetooth	FHSS	13.00	12.06	-0.09	Front	10 mm	Auminum	Sport	N7W74KJXXK	1	100	0.079	1.242	1.000	0.098	A15
2480.00	78	Bluetooth	FHSS	13.00	12.06	0.00	Front	10 mm	Auminum	Metal Links	N7W74KJXXK	1	100	0.054	1.242	1.000	0.067	
2480.00	78	Bluetooth	FHSS	13.00	12.06	-0.02	Front	10 mm	Auminum	Metal Loop	N7W74KJXXK	1	100	0.054	1.242	1.000	0.067	
2480.00	78	Bluetooth	FHSS	13.00	12.06	-0.02	Front	10 mm	Stainless Steel	Sport	M6RW9PY74H	1	100	0.065	1.242	1.000	0.081	
2480.00	78	Bluetooth	FHSS	13.00	12.06	-0.04	Front	10 mm	Stainless Steel	Metal Links	M6RW9PY74H	1	100	0.050	1.242	1.000	0.062	
2480.00	78	Bluetooth	FHSS	13.00	12.06	-0.01	Front	10 mm	Stainless Steel	Metal Loop	M6RW9PY74H	1	100	0.051	1.242	1.000	0.063	
		ANSI / IE	EE C95.1 1992	- SAFETY LIMI	т							He	ad					
			Spatial Pe	ak								1.6 W/kg	g (mW/g)					
		Uncontrolle	d Exposure/Ge	eneral Popula	tion							averaged of	ver 1 gram					

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10.2 Standalone Extremity SAR Data

Table 10-16
UMTS 850 Extremity SAR Data

						М	EASUR	EMENT RES	ULTS							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.			Power [dBm]	Fower [ubiii]	Dinic [ub]			Type	Number	Cycle		(W/kg)	Factor	(W/kg)	
836.60	4183	UMTS 850	RMC	25.00	24.03	-0.05	0 mm	Aluminum	Sport	G5PXJ3997T	1:1	Back	0.083	1.250	0.104	
836.60	4183	UMTS 850	RMC	25.00	24.03	-0.02	0 mm	Aluminum	Metal Links	G5PXJ3997T	1:1	Back	0.117	1.250	0.146	
836.60	4183	UMTS 850	RMC	25.00	24.03	0.01	0 mm	Aluminum	Metal Loop	G5PXJ3997T	1:1	Back	0.095	1.250	0.119	
836.60	4183	UMTS 850	RMC	25.00	24.03	0.06	0 mm	Stainless Steel	Sport	XGVVQF73J9	1:1	Back	0.076	1.250	0.095	
836.60	4183	UMTS 850	RMC	25.00	24.03	-0.11	0 mm	Stainless Steel	Metal Links	XGVVQF73J9	1:1	Back	0.144	1.250	0.180	A17
836.60	4183	UMTS 850	RMC	25.00	24.03	-0.05	0 mm	Stainless Steel	Metal Loop	XGVVQF73J9	1:1	Back	0.090	1.250	0.113	
		ANSI / IEEE	C95.1 1992 - S	AFETY LIMIT							Extre	nity				
			Spatial Peak							4.	0 W/kg	(mW/g)				
		Uncontrolled	Exposure/Gene	eral Populati	on					avera	aged ove	r 10 gran	ns			

Table 10-17 UMTS 1750 Extremity SAR Data

						м	EASUR	EMENT RES	OLTS							
FREQUE	NCY	Mode	Service	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.			Power [dBm]	Fower [ubili]	Dinit [ub]			Type	Number	Cycle		(W/kg)	Factor	(W/kg)	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	-0.06	0 mm	Aluminum	Sport	G5PXJ3997T	1:1	Back	0.026	1.227	0.032	A18
1732.40	1412	UMTS 1750	RMC	24.00	23.11	-0.05	0 mm	Aluminum	Metal Links	G5PXJ3997T	1:1	Back	0.023	1.227	0.028	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	-0.02	0 mm	Aluminum	Metal Loop	G5PXJ3997T	1:1	Back	0.011	1.227	0.013	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	-0.03	0 mm	Stainless Steel	Sport	RP6GPDHJ4Y	1:1	Back	0.022	1.227	0.027	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	0.02	0 mm	Stainless Steel	Metal Links	RP6GPDHJ4Y	1:1	Back	0.024	1.227	0.029	
1732.40	1412	UMTS 1750	RMC	24.00	23.11	-0.04	0 mm	Stainless Steel	Metal Loop	RP6GPDHJ4Y	1:1	Back	0.023	1.227	0.028	
		ANSI / IEEE	C95.1 1992 - S	AFETY LIMIT							Extre	nity				
			Spatial Peak							4.	0 W/kg	(mW/g)				
		Uncontrolled	Exposure/Gene	eral Populati	on					avera	aged ove	r 10 grar	ns			

Table 10-18UMTS 1900 Extremity SAR Data

						ME	EASURE	MENT RES	ULTS							
FREQUE	NCY	Mode	Service	Maxim um Allowed	Conducted	Power	Spacing	Housing Type	Wristband	Device Serial	Duty	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]			Туре	Number	Cycle		(W/kg)		(W/kg)	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.07	0 mm	Auminum	Sport	LDW7F60M65	1:1	Back	0.031	1.239	0.038	A18
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.06	0 mm	Auminum	Metal Links	LDW7F60M65	1:1	Back	0.026	1.239	0.032	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.14	0 mm	Auminum	Metal Loop	LDW7F60M65	1:1	Back	0.015	1.239	0.019	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.12	0 mm	Stainless Steel	Sport	R4YW5F4DW9	1:1	Back	0.029	1.239	0.036	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	0.08	0 mm	Stainless Steel	Metal Links	R4YW5F4DW9	1:1	Back	0.026	1.239	0.032	
1907.60	9538	UMTS 1900	RMC	24.00	23.07	-0.15	0 mm	Stainless Steel	Metal Loop	R4YW5F4DW9	1:1	Back	0.027	1.239	0.033	
			E C95.1 1992 - SA Spatial Peak								Extre 4.0 W/kg	(mW/g)				
		Uncontrolled	Exposure/Gener	al Population	1		l		-	av	eraged ov	er 10 gran	is			

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Table 10-19LTE Band 12 Extremity SAR Data

									ME	ASUREMEN	TRESULTS										
FR	EQUENCY		Mode	Bandwidth	Wristband	Maximum Allowed	Conducted	Power	MPR [dB]	Housing Type	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	С	h.		[MHz]	Туре	Power [dBm]	Power [dBm]	Drift [dB]			Number							(W/kg)	-	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	Sport	25.5	24.74	0.20	0	Auminum	QGYVW9YXV7	QPSK	1	25	0 mm	Back	1:1	0.125	1.191	0.149	
707.50	23095	Mid	LTE Band 12	10	Sport	24.5	23.95	0.03	1	Auminum	QGYVW9YXV7	QPSK	25	25	0 mm	Back	1:1	0.092	1.135	0.104	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.5	24.74	-0.05	0	Auminum	QGYVW9YXV7	QPSK	1	25	0 mm	Back	1:1	0.204	1.191	0.243	A19
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.5	23.95	0.03	1	Auminum	QGYVW9YXV7	QPSK	25	25	0 mm	Back	1:1	0.178	1.135	0.202	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.5	24.74	0.06	i 0 Auminum QGYW9YXV7 QPSK 1 25 0 mm Back 1:1 0.174											0.207	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.5	23.95	-0.04	1	Auminum	QGYVW9YXV7	QPSK	25	25	0 mm	Back	1:1	0.109	1.135	0.124	
707.50	23095	Mid	LTE Band 12	10	Sport	25.5	24.74	0.20	0	Stainless Steel	X4QKKG6X7T	QPSK	1	25	0 mm	Back	1:1	0.096	1.191	0.114	
707.50	23095	Mid	LTE Band 12	10	Sport	24.5	23.95	0.20	1	Stainless Steel	X4QKKG6X7T	QPSK	25	25	0 mm	Back	1:1	0.073	1.135	0.083	
707.50	23095	Mid	LTE Band 12	10	Metal Links	25.5	24.74	0.20	0	Stainless Steel	X4QKKG6X7T	QPSK	1	25	0 mm	Back	1:1	0.202	1.191	0.241	
707.50	23095	Mid	LTE Band 12	10	Metal Links	24.5	23.95	-0.19	1	Stainless Steel	X4QKKG6X7T	QPSK	25	25	0 mm	Back	1:1	0.164	1.135	0.186	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	25.5	24.74	0.20	0	Stainless Steel	X4QKKG6X7T	QPSK	1	25	0 mm	Back	1:1	0.124	1.191	0.148	
707.50	23095	Mid	LTE Band 12	10	Metal Loop	24.5	23.95	0.13	1	Stainless Steel	X4QKKG6X7T	QPSK	25	25	0 mm	Back	1:1	0.099	1.135	0.112	
			ANSI / IEE	E C95.1 1992		IMIT									Extremity						
				Spatial P	eak									4.0	W/kg (mW	/g)					
			Uncontrolled	i Exposure/G	eneral Pop	ulation								averag	ed over 10 g	grams					

Table 10-20LTE Band 13 Extremity SAR Data

									ME		RESULTS										
FRI	EQUENCY	(Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed	Conducted Power (dBm)	Power Drift (dB)	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling	Reported SAR (10g)	Plot #
MHz	c	h.		[wiriz]	Type	Power [dBm]	rower [abilij	Dinic [GD]			Number							(W/kg)	ractor	(W/kg)	
782.00	23230	Mid	LTE Band 13	10	Sport	25.5	24.98	-0.15	0	Aluminum	CD2LGXQM2H	QPSK	1	0	0 mm	Back	1:1	0.115	1.127	0.130	
782.00	23230	Mid	LTE Band 13	10	Sport	24.5	23.92	-0.07	1	Aluminum	CD2LGXQM2H	QPSK	25	0	0 mm	Back	1:1	0.104	1.143	0.119	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.5	24.98	-0.06	0	Aluminum	CD2LGXQM2H	QPSK	1	0	0 mm	Back	1:1	0.236	1.127	0.266	
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.5	23.92	0.07	1	Aluminum	CD2LGXQM2H	QPSK	25	0	0 mm	Back	1:1	0.169	1.143	0.193	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.5	24.98	0.04	0	Aluminum	CD2LGXQM2H	QPSK	1	0	0 mm	Back	1:1	0.196	1.127	0.221	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.5	23.92	0.13	1	Aluminum	CD2LGXQM2H	QPSK	25	0	0 mm	Back	1:1	0.148	1.143	0.169	
782.00	23230	Mid	LTE Band 13	10	Sport	25.5	24.98	0.04	0	Stainless Steel	CPHTM44WJ3	QPSK	1	0	0 mm	Back	1:1	0.207	1.127	0.233	
782.00	23230	Mid	LTE Band 13	10	Sport	24.5	23.92	-0.19	1	Stainless Steel	CPHTM44WJ3	QPSK	25	0	0 mm	Back	1:1	0.116	1.143	0.133	
782.00	23230	Mid	LTE Band 13	10	Metal Links	25.5	24.98	0.20	0	Stainless Steel	CPHTM44WJ3	QPSK	1	0	0 mm	Back	1:1	0.282	1.127	0.318	A20
782.00	23230	Mid	LTE Band 13	10	Metal Links	24.5	23.92	-0.11	1	Stainless Steel	CPHTM44WJ3	QPSK	25	0	0 mm	Back	1:1	0.187	1.143	0.214	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	25.5	24.98	-0.07	0	Stainless Steel	CPHTM44WJ3	QPSK	1	0	0 mm	Back	1:1	0.190	1.127	0.214	
782.00	23230	Mid	LTE Band 13	10	Metal Loop	24.5	23.92	0.07	1	Stainless Steel	CPHTM44WJ3	QPSK	25	0	0 mm	Back	1:1	0.171	1.143	0.195	
			ANSI / IEEE	Spatial Pe	ak									4.0 W/	remity kg (mW/g	.,					
			Uncontrolled E	xposure/G	eneral Pop	ulation							a	veraged	over 10 gr	ams					

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Table 10-21LTE Band 14 Extremity SAR Data

									ME	ASUREMENT	RESULTS										
FRI	EQUENCY	,	Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed	Conducted Power (dBm)	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	С	h.		[WITZ]	туре	Power [dBm]	Power (dBm)	рык (ар)			Number							(W/kg)	Factor	(W/kg)	
793.00	23330	Mid	LTE Band 14	10	Sport	25.5	24.69	-0.06	0	Aluminum	JYHCFGFXW6	QPSK	1	25	0 mm	Back	1:1	0.138	1.205	0.166	
793.00	23330	Mid	LTE Band 14	10	Sport	24.5	23.88	0.01	1	Aluminum	JYHCFGFXW6	QPSK	25	25	0 mm	Back	1:1	0.105	1.153	0.121	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.5	24.69	-0.02	0	Aluminum	JYHCFGFXW6	QPSK	1	25	0 mm	Back	1:1	0.186	1.205	0.224	
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.5	23.88	-0.20	1	Aluminum	JYHCFGFXW6	QPSK	25	25	0 mm	Back	1:1	0.159	1.153	0.183	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.5	24.69	-0.01	0	Aluminum	JYHCFGFXW6	QPSK	1	25	0 mm	Back	1:1	0.168	1.205	0.202	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.5	23.88	-0.09	1	Aluminum	JYHCFGFXW6	QPSK	25	25	0 mm	Back	1:1	0.114	1.153	0.131	
793.00	23330	Mid	LTE Band 14	10	Sport	25.5	24.69	-0.04	0	Stainless Steel	GMF3306DQ3	QPSK	1	25	0 mm	Back	1:1	0.158	1.205	0.190	
793.00	23330	Mid	LTE Band 14	10	Sport	24.5	23.88	-0.05	1	Stainless Steel	GMF3306DQ3	QPSK	25	25	0 mm	Back	1:1	0.114	1.153	0.131	
793.00	23330	Mid	LTE Band 14	10	Metal Links	25.5	24.69	0.05	0	Stainless Steel	GMF3306DQ3	QPSK	1	25	0 mm	Back	1:1	0.234	1.205	0.282	A21
793.00	23330	Mid	LTE Band 14	10	Metal Links	24.5	23.88	0.20	1	Stainless Steel	GMF3306DQ3	QPSK	25	25	0 mm	Back	1:1	0.162	1.153	0.187	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	25.5	24.69	0.20	0	Stainless Steel	GMF3306DQ3	QPSK	1	25	0 mm	Back	1:1	0.172	1.205	0.207	
793.00	23330	Mid	LTE Band 14	10	Metal Loop	24.5	23.88	0.05	1	Stainless Steel	GMF3306DQ3	QPSK	25	25	0 mm	Back	1:1	0.134	1.153	0.155	
			ANSI / IEEE	C95.1 1992	- SAFETY	LIMIT								Ext	remity						
				Spatial Pe	ak									4.0 W/	kg (mW/g	1)					
			Uncontrolled E	Exposure/G	eneral Pop	ulation							a	veraged	over 10 gr	ams					

Table 10-22LTE Band 26 Extremity SAR Data

									MEA	SUREMENT	RESULTS										
FRI	EQUENCY	,	Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	C	h.		[mrn2]	Type	Power [dBm]	rower [abilij	Dint[0D]			Number							(W/kg)	ractor	(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.5	24.53	-0.04	0	Aluminum	RWHV29PJ4W	QPSK	1	25	0 mm	Back	1:1	0.105	1.250	0.131	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.5	23.63	0.00	1	Aluminum	RWHV29PJ4W	QPSK	25	0	0 mm	Back	1:1	0.076	1.222	0.093	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.5	24.53	-0.06	0	Auminum	RWHV29PJ4W	QPSK	1	25	0 mm	Back	1:1	0.148	1.250	0.185	A22
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.5	23.63	-0.02	1	Auminum	RWHV29PJ4W	QPSK	25	0	0 mm	Back	1:1	0.122	1.222	0.149	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.5	24.53	-0.04 0 Aluminum RWHV29PJ4W QPSK 1 25 0 mm Back 1:1 0.094 1.250 0.118													
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.5	23.63	0.04	0.04 1 Auminum RWHV29PJ4W QPSK 25 0 0 mm Back 1:1 0.085 1.222 0.104												
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	25.5	24.53	0.08	0	Stainless Steel	X4QKKG6X7T	QPSK	1	25	0 mm	Back	1:1	0.088	1.250	0.110	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Sport	24.5	23.63	-0.03	1	Stainless Steel	X4QKKG6X7T	QPSK	25	0	0 mm	Back	1:1	0.071	1.222	0.087	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	25.5	24.53	-0.04	0	Stainless Steel	X4QKKG6X7T	QPSK	1	25	0 mm	Back	1:1	0.130	1.250	0.163	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Links	24.5	23.63	-0.11	1	Stainless Steel	X4QKKG6X7T	QPSK	25	0	0 mm	Back	1:1	0.100	1.222	0.122	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	25.5	24.53	-0.02	0	Stainless Steel	X4QKKG6X7T	QPSK	1	25	0 mm	Back	1:1	0.117	1.250	0.146	
831.50	26865	Mid	LTE Band 26 (Cell)	10	Metal Loop	24.5	23.63	0.00	1	Stainless Steel	X4QKKG6X7T	QPSK	25	0	0 mm	Back	1:1	0.087	1.222	0.106	
			ANSI / IEEE			LIMIT									tremity						
				Spatial Pe											/kg (mW/						
			Uncontrolled E	Exposure/G	eneral Pop	ulation								averaged	over 10 g	rams					

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Table 10-23LTE Band 5 Extremity SAR Data

									MEA	SUREMEN	TRESULTS										
FR	EQUENCY		Mode	Bandwidth	Wristband	Maximum Allowed	Conducted	Power	MPR [dB]	Housing Type	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	С	h.		[MHz]	Туре	Power [dBm]	Power [dBm]	Drift [dB]			Number							(W/kg)		(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.5	24.53	0.06	0	Auminum	MG9RCVQ2V9	QPSK	1	49	0 mm	Back	1:1	0.126	1.250	0.158	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.5	23.49	0.06	1	Auminum	MG9RCVQ2V9	QPSK	25	12	0 mm	Back	1:1	0.108	1.262	0.136	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.5	24.53	-0.05	0	Auminum	MG9RCVQ2V9	QPSK	1	49	0 mm	Back	1:1	0.111	1.250	0.139	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.5	23.49	-0.16	1	Aluminum	MG9RCVQ2V9	QPSK	25	12	0 mm	Back	1:1	0.073	1.262	0.092	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.5	24.53	0.05	0	Auminum	MG9RCVQ2V9	QPSK	1	49	0 mm	Back	1:1	0.156	1.250	0.195	A23
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.5	23.49	0.01	1	Auminum	MG9RCVQ2V9	QPSK	25	12	0 mm	Back	1:1	0.119	1.262	0.150	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	25.5	24.53	0.09	0	Stainless Steel	R4YW5F4DW9	QPSK	1	49	0 mm	Back	1:1	0.092	1.250	0.115	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Sport	24.5	23.49	-0.18	1	Stainless Steel	R4YW5F4DW9	QPSK	25	12	0 mm	Back	1:1	0.077	1.262	0.097	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	25.5	24.53	0.09	0	Stainless Steel	R4YW5F4DW9	QPSK	1	49	0 mm	Back	1:1	0.129	1.250	0.161	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Links	24.5	23.49	0.07	1	Stainless Steel	R4YW5F4DW9	QPSK	25	12	0 mm	Back	1:1	0.115	1.262	0.145	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	25.5	24.53	-0.02	0	Stainless Steel	R4YW5F4DW9	QPSK	1	49	0 mm	Back	1:1	0.144	1.250	0.180	
836.50	20525	Mid	LTE Band 5 (Cell)	10	Metal Loop	24.5	23.49	-0.03	1	Stainless Steel	R4YW5F4DW9	QPSK	25	12	0 mm	Back	1:1	0.107	1.262	0.135	
			ANSI / IEE		- SAFETY L	IMIT									Extremity						
				Spatial P	eak									4.0	W/kg (mW	/g)					
			Uncontrolled	Exposure/G	eneral Pop	ulation								averag	ed over 10	grams					

Table 10-24LTE Band 66 Extremity SAR Data

									ME	ASUREMEN	T RESULTS										
FR	EQUENCY		Mode	Bandwidth [MHz]	Wristband	Maximum Allowed	Conducted Power (dBm)	Power Drift (dB)	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Cł	h.		[MHZ]	Туре	Power [dBm]	Power [dBm]	Drift [dB]			Number							(W/kg)		(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.5	23.55	0.07	0	Auminum	N7W74KJXXK	QPSK	1	99	0 mm	Back	1:1	0.020	1.245	0.025	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.5	22.72	0.07	1	Auminum	N7W74KJXXK	QPSK	50	50	0 mm	Back	1:1	0.016	1.197	0.019	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.5	23.55	0.02	0	Auminum	N7W74KJXXK	QPSK	1	99	0 mm	Back	1:1	0.035	1.245	0.044	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.5	22.72	-0.20	1	Auminum	N7W74KJXXK	QPSK	50	50	0 mm	Back	1:1	0.026	1.197	0.031	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.5	23.55	0.07	0	Auminum	N7W74KJXXK	QPSK	1	99	0 mm	Back	1:1	0.033	1.245	0.041	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	23.5	22.72	0.03	1	Auminum	N7W74KJXXK	QPSK	50	50	0 mm	Back	1:1	0.027	1.197	0.032	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	24.5	23.55	0.03	0	Stainless Steel	X4QKKG6X7T	QPSK	1	99	0 mm	Back	1:1	0.038	1.245	0.047	A24
1720.00	132072	Low	LTE Band 66 (AWS)	20	Sport	23.5	22.72	-0.19	1	Stainless Steel	X4QKKG6X7T	QPSK	50	50	0 mm	Back	1:1	0.031	1.197	0.037	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	24.5	23.55	0.02	0	Stainless Steel	X4QKKG6X7T	QPSK	1	99	0 mm	Back	1:1	0.037	1.245	0.046	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Links	23.5	22.72	0.02	1	Stainless Steel	X4QKKG6X7T	QPSK	50	50	0 mm	Back	1:1	0.035	1.197	0.042	
1720.00	132072	Low	LTE Band 66 (AWS)	20	Metal Loop	24.5	23.55	-0.04	0	Stainless Steel	X4QKKG6X7T	QPSK	1	99	0 mm	Back	1:1	0.025	1.245	0.031	
								0.06	1	Stainless Steel	X4QKKG6X7T	QPSK	50	50	0 mm	Back	1:1	0.020	1.197	0.024	
		2072 Low LTE Band 66 (AWS) 20 Metal Loop 23.5 22.72 0 ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												4.0	Extremity W/kg (mW ed over 10 g	•					

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Table 10-25LTE Band 25 Extremity SAR Data

									ME	ASUREMENT											
FR	EQUENCY	(Mode	Bandwidth [MHz]	Wristband Type	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	С	h.		[WITZ]	туре	Power [dBm]	Power (dBm)	Driit (ab)			Number							(W/kg)	Factor	(W/kg)	
1905.00	26590	High	LTE Band 25 (PCS)	20	Sport	24.5	23.71	-0.12	0	Aluminum	MG9RCVQ2V9	QPSK	1	50	0 mm	Back	1:1	0.038	1.199	0.046	A25
1905.00	26590	High	LTE Band 25 (PCS)	20	Sport	23.5	22.84	0.01	1	Aluminum	MG9RCVQ2V9	QPSK	50	50	0 mm	Back	1:1	0.031	1.164	0.036	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Links	24.5	23.71	0.08	0	Aluminum	MG9RCVQ2V9	QPSK	1	50	0 mm	Back	1:1	0.037	1.199	0.044	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Links	23.5	22.84	-0.07	1	Aluminum	MG9RCVQ2V9	QPSK	50	50	0 mm	Back	1:1	0.029	1.164	0.034	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Loop	24.5	23.71	-0.17	0	Aluminum	MG9RCVQ2V9	QPSK	1	50	0 mm	Back	1:1	0.035	1.199	0.042	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Loop	23.5	22.84	0.20	1	Aluminum	MG9RCVQ2V9	QPSK	50	50	0 mm	Back	1:1	0.028	1.164	0.033	
1905.00	26590	High	LTE Band 25 (PCS)	20	Sport	24.5	23.71	-0.05	0	Stainless Steel	KMW0XWRMWQ	QPSK	1	50	0 mm	Back	1:1	0.038	1.199	0.046	
1905.00	26590	High	LTE Band 25 (PCS)	20	Sport	23.5	22.84	0.07	1	Stainless Steel	KMW0XWRMWQ	QPSK	50	50	0 mm	Back	1:1	0.032	1.164	0.037	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Links	24.5	23.71	-0.12	0	Stainless Steel	KMW0XWRMWQ	QPSK	1	50	0 mm	Back	1:1	0.033	1.199	0.040	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Links	23.5	22.84	-0.08	1	Stainless Steel	KMW0XWRMWQ	QPSK	50	50	0 mm	Back	1:1	0.028	1.164	0.033	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Loop	24.5	23.71	0.14	0	Stainless Steel	KMW0XWRMWQ	QPSK	1	50	0 mm	Back	1:1	0.031	1.199	0.037	
1905.00	26590	High	LTE Band 25 (PCS)	20	Metal Loop	23.5	22.84	0.07	1	Stainless Steel	KMW0XWRMWQ	QPSK	50	50	0 mm	Back	1:1	0.020	1.164	0.023	
			ANSI / IEEE	C95.1 1992	- SAFETY	LIMIT					•	•		Ext	tremity						
				Spatial Pe	ak									4.0 W/	kg (mW/g	1)					
			Uncontrolled E	Exposure/G	eneral Pop	ulation							a	veraged	over 10 gr	ams					

Table 10-26LTE Band 7 Extremity SAR Data

									MEA	SUREMENT	RESULTS										
FRI	EQUENCY	r	Mode	Bandwidth [MHz]	Wristband	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Housing Type	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot#
MHz	С	h.		[MHZ]	Туре	Power [dBm]	Power (dBm)	υτιπ (αΒ)			Number							(W/kg)	Factor	(W/kg)	
2535.00	21100	Mid	LTE Band 7	20	Sport	24.0	23.28	-0.14	0	Auminum	MG9RCVQ2V9	QPSK	1	99	0 mm	Back	1:1	0.035	1.180	0.041	A26
2535.00	21100	Mid	LTE Band 7	20	Sport	23.0	22.27	-0.04	1	Aluminum	MG9RCVQ2V9	QPSK	50	50	0 mm	Back	1:1	0.029	1.183	0.034	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	24.0	23.28	0.01	0	Aluminum	MG9RCVQ2V9	QPSK	1	99	0 mm	Back	1:1	0.035	1.180	0.041	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	23.0	22.27	-0.02	1	Aluminum	MG9RCVQ2V9	QPSK	50	50	0 mm	Back	1:1	0.024	1.183	0.028	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	24.0	23.28	-0.05	0	Aluminum	MG9RCVQ2V9	QPSK	1	99	0 mm	Back	1:1	0.027	1.180	0.032	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	23.0	22.27	0.01	1	Aluminum	MG9RCVQ2V9	QPSK	50	50	0 mm	Back	1:1	0.013	1.183	0.015	
2535.00	21100	Mid	LTE Band 7	20	Sport	24.0	23.28	0.04	0	Stainless Steel	CPHTM44WJ3	QPSK	1	99	0 mm	Back	1:1	0.019	1.180	0.022	
2535.00	21100	Mid	LTE Band 7	20	Sport	23.0	22.27	0.07	1	Stainless Steel	CPHTM44WJ3	QPSK	50	50	0 mm	Back	1:1	0.013	1.183	0.015	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	24.0	23.28	0.02	0	Stainless Steel	CPHTM44WJ3	QPSK	1	99	0 mm	Back	1:1	0.011	1.180	0.013	
2535.00	21100	Mid	LTE Band 7	20	Metal Links	23.0	22.27	0.02	1	Stainless Steel	CPHTM44WJ3	QPSK	50	50	0 mm	Back	1:1	0.008	1.183	0.009	
2535.00	21100	Mid	LTE Band 7	20	Metal Loop	24.0	23.28	-0.20	0	Stainless Steel	CPHTM44WJ3	QPSK	1	99	0 mm	Back	1:1	0.007	1.180	0.008	
2535.00								0.01	1	Stainless Steel	CPHTM44WJ3	QPSK	50	50	0 mm	Back	1:1	0.004	1.183	0.005	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT													tremity							
		Spatial Peak												4.0 W	/kg (mW/	g)					
			Uncontrolled E	xposure/G	eneral Pop	ulation								averaged	over 10 g	rams					

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Table 10-27LTE Band 41 Extremity SAR Data

									MEA	SUREMEN	T RESULTS										
FR	EQUENCY	,	Mode	Bandwidth	Wristband	Maximum Allowed	Conducted	Power Drift (dB)	MPR [dB]	Housing Type	Device Serial	Modulation	RB Size	RBOffset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	0	h.		[MHz]	Туре	Power [dBm]	Power [dBm]	Drift [dB]			Number							(W/kg)		(W/kg)	
2636.50	41055	High	LTE Band 41	20	Sport	24.0	23.24	-0.13	0	Auminum	N7W74KJXXK	QPSK	1	50	0 mm	Back	1:1.58	0.004	1.191	0.005	
2636.50	41055	Mid- High	LTE Band 41	20	Sport	23.0	22.17	0.12	1	Auminum	N7W74KJXXK	QPSK	50	50	0 mm	Back	1:1.58	0.002	1.211	0.002	
2636.50	41055	High	LTE Band 41	20	Metal Links	24.0	23.24	0.13	0	Auminum	N7W74KJXXK	QPSK	1	50	0 mm	Back	1:1.58	0.006	1.191	0.007	
2636.50	41055	High	LTE Band 41	20	Metal Links	23.0	22.17	-0.06	1	Auminum	N7W74KJXXK	QPSK	50	50	0 mm	Back	1:1.58	0.004	1.211	0.005	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Loop	24.0	23.24	0.06	0	Auminum	N7W74KJXXK	QPSK	1	50	0 mm	Back	1:1.58	0.006	1.191	0.007	A27
2636.50	41055	Mid- High	LTE Band 41	20	Metal Loop	23.0	22.17	0.08	1	Auminum	N7W74KJXXK	QPSK	50	50	0 mm	Back	1:1.58	0.004	1.211	0.005	
2636.50	41055	High	LTE Band 41	20	Sport	24.0	23.24	-0.11	0	Stainless Steel	R4YW5F4DW9	QPSK	1	50	0 mm	Back	1:1.58	0.004	1.191	0.005	
2636.50	41055	Mid- High	LTE Band 41	20	Sport	23.0	22.17	0.06	1	Stainless Steel	R4YW5F4DW9	QPSK	50	50	0 mm	Back	1:1.58	0.002	1.211	0.002	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Links	24.0	23.24	0.09	0	Stainless Steel	R4YW5F4DW9	QPSK	1	50	0 mm	Back	1:1.58	0.003	1.191	0.004	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Links	23.0	22.17	0.03	1	Stainless Steel	R4YW5F4DW9	QPSK	50	50	0 mm	Back	1:1.58	0.001	1.211	0.001	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Loop	24.0	23.24	-0.11	0	Stainless Steel	R4YW5F4DW9	QPSK	1	50	0 mm	Back	1:1.58	0.005	1.191	0.006	
2636.50	41055	Mid- High	LTE Band 41	20	Metal Loop	23.0	22.17	0.09	1	Stainless Steel	R4YW5F4DW9	QPSK	50	50	0 mm	Back	1:1.58	0.004	1.211	0.005	
			ANSI / IEE	E C95.1 1992	- SAFETY L	IMIT									Extremity						
		Spatial Peak												4.0	W/kg (mW	/g)					
			Uncontrolled	Exposure/G	eneral Pop	ulation								averag	ed over 10	grams					
			oncontrolled	LXp03016/0	eneral r opi			-						avoiay	ed over 10	Jiania					

Table 10-282.4GHz WLAN Extremity SAR Data

								MEA	SUREMENT	RESULTS									
FREQU	IENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power	Conducted Power	Power Drift [dB]	Spacing	Housing Type	Wristband Type	Device Serial Number	Data Rate	Side	Duty Cycle	SAR (10g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (10g)	Plot #
MHz	Ch.			[WIFI2]	[dBm]	[ubin]	[UB]				Number	(Mbps)		(%)	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	19.0	18.02	0.02	0 mm	Aluminum	Sport	RWHV29PJ4W	1	Back	99.6	0.012	1.253	1.004	0.015	
2437	6	802.11b	DSSS	22	19.0	18.02	-0.12	0 mm	Aluminum	Metal Links	RWHV29PJ4W	1	Back	99.6	0.007	1.253	1.004	0.009	
2437	6	802.11b	DSSS	22	19.0	18.02	0.05	0 mm	Aluminum	Metal Loop	RWHV29PJ4W	1	Back	99.6	0.015	1.253	1.004	0.019	A28
2437	6	802.11b	DSSS	22	19.0	18.02	0.00	0 mm	Stainless Steel	Sport	CPHTM44WJ3	1	Back	99.6	0.015	1.253	1.004	0.019	
2437	6	802.11b	DSSS	22	19.0	18.02	0.00	0 mm	Stainless Steel	Metal Links	CPHTM44WJ3	1	Back	99.6	0.013	1.253	1.004	0.016	
2437	6	802.11b	DSSS	22	19.0	18.02	0.00	0 mm	Stainless Steel	Metal Loop	CPHTM44WJ3	1	Back	99.6	0.008	1.253	1.004	0.010	
		AN	ISI / IEEE	C95.1 1992	- SAFETY LIMIT								Extremi	ity					
				Spatial Pea	ak							4.0	W/kg (r	nW/g)					
		Unco	ontrolled	Exposure/Ge	eneral Populatio	n						averag	ed over	10 gram	S				

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						50		VLAI		mity S/		a							
								MEA	SUREMENT	RESULTS									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed Power	Conducted Power		Spacing	Housing Type	Wristband Type	Device Serial	Data Rate	Side	Duty Cycle	SAR (10g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (10g)	R Plot #
MHz	Ch.	mode	0011100	[MHz]	[dBm]	[dBm]	[dB]	oputing	riousing Type	Tribubana Type	Number	(Mbps)	olue	(%)	(W/kg)	(Power)	Cycle)	(W/kg)	
5280	56	802.11a	OFDM	20	17.0	16.04	0.00	0 mm	Aluminum	Sport	JYHCFGFXW6	6	Back	98.5	0.000	1.247	1.015	0.000	
5280	56	802.11a	OFDM	20	17.0	16.04	0.00	0 mm	Aluminum	Metal Links	JYHCFGFXW6	6	Back	98.5	0.000	1.247	1.015	0.000	
5280	56	802.11a	OFDM	20	17.0	16.04	0.01	0 mm	Aluminum	Metal Loop	JYHCFGFXW6	6	Back	98.5	0.000	1.247	1.015	0.000	
5280	56	802.11a	OFDM	20	17.0	16.04	0.00	0 mm	Stainless Steel	Sport	CPHTM44WJ3	6	Back	98.5	0.000	1.247	1.015	0.000	
5280	56	802.11a	OFDM	20	17.0	16.04	0.00	0 mm	Stainless Steel	Metal Links	CPHTM44WJ3	6	Back	98.5	0.000	1.247	1.015	0.000	
5280	56	802.11a	OFDM	20	17.0	16.04	0.03	0 mm	Stainless Steel	Metal Loop	CPHTM44WJ3	6	Back	98.5	0.000	1.247	1.015	0.000	
5600	120	802.11a	OFDM	20	17.0	16.09	0.00	0 mm	Aluminum	Sport	JYHCFGFXW6	6	Back	98.5	0.000	1.233	1.015	0.000	
5600	120	802.11a	OFDM	20	17.0	16.09	0.01	0 mm	Aluminum	Metal Links	JYHCFGFXW6	6	Back	98.5	0.000	1.233	1.015	0.000	
5600	120	802.11a	OFDM	20	17.0	16.09	0.00	0 mm	Aluminum	Metal Loop	JYHCFGFXW6	6	Back	98.5	0.000	1.233	1.015	0.000	
5600	120	802.11a	OFDM	20	17.0	16.09	0.08	0 mm	Stainless Steel	Sport	CPHTM44WJ3	6	Back	98.5	0.000	1.233	1.015	0.000	
5600	120	802.11a	OFDM	20	17.0	16.09	0.00	0 mm	Stainless Steel	Metal Links	CPHTM44WJ3	6	Back	98.5	0.000	1.233	1.015	0.000	
5600	120	802.11a	OFDM	20	17.0	16.09	0.00	0 mm	Stainless Steel	Metal Loop	CPHTM44WJ3	6	Back	98.5	0.000	1.233	1.015	0.000	
5825	165	802.11a	OFDM	20	17.0	15.98	-0.01	0 mm	Aluminum	Sport	JYHCFGFXW6	6	Back	98.5	0.000	1.265	1.015	0.000	
5825	165	802.11a	OFDM	20	17.0	15.98	0.00	0 mm	Aluminum	Metal Links	JYHCFGFXW6	6	Back	98.5	0.000	1.265	1.015	0.000	
5825	165	802.11a	OFDM	20	17.0	15.98	0.00	0 mm	Aluminum	Metal Loop	JYHCFGFXW6	6	Back	98.5	0.000	1.265	1.015	0.000	
5825	165	802.11a	OFDM	20	17.0	15.98	0.02	0 mm	Stainless Steel	Sport	CPHTM44WJ3	6	Back	98.5	0.000	1.265	1.015	0.000	
5825	165	802.11a	OFDM	20	17.0	15.98	0.00	0 mm	Stainless Steel	Metal Links	CPHTM44WJ3	6	Back	98.5	0.001	1.265	1.015	0.001	A29
5825	165	802.11a	OFDM	20	17.0	15.98	0.00	0 mm	Stainless Steel	Metal Loop	CPHTM44WJ3	6	Back	98.5	0.000	1.265	1.015	0.000	
		AM	ISI / IEEE	C95.1 1992	- SAFETY LIMIT								Extrem	ity					
				Spatial Pea								4.0	W/kg (r	nW/g)					
		Unc	ontrolled	Exposure/G	eneral Populatio	n						averag	ed over	10 gram	s				

Table 10-295GHz WLAN Extremity SAR Data

Table 10-30 Bluetooth WLAN Extremity SAR Data

								MEASURE		ESULTS								
FREQU	IENCY	Mode	Service	Maximum Allowed		Power Drift	Spacing	Housing Type	Wristband		Data Rate	Side	Duty Cycle	SAR (10g)	Scaling Factor		Reported SAR (10g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	[dB]		•	Туре	Number	(Mbps)		(%)	(W/kg)	(Cond Power)	(Duty Cycle)	(W/kg)	
2480	78	Bluetooth	FHSS	13.0	12.06	0.06	0 m m	Auminum	Sport	JYHCFGFXW6	1	Back	100	0.005	1.242	1.000	0.006	A30
2480	78	Bluetooth	FHSS	13.0	12.06	-0.16	0 m m	Auminum	Metal Links	JYHCFGFXW6	1	Back	100	0.005	1.242	1.000	0.006	
2480	78	Bluetooth	FHSS	13.0	12.06	0.20	0 m m	Auminum	Metal Loop	JYHCFGFXW6	1	Back	100	0.003	1.242	1.000	0.004	
2480	78	Bluetooth	FHSS	13.0	12.06	0.09	0 m m	Stainless Steel	Sport	CPHTM44WJ3	1	Back	100	0.003	1.242	1.000	0.004	
2480	78	Bluetooth	FHSS	13.0	12.06	0.01	0 m m	Stainless Steel	Metal Links	CPHTM44WJ3	1	Back	100	0.000	1.242	1.000	0.000	
2480	78	Bluetooth	FHSS	13.0	12.06	0.08	0 m m	Stainless Steel	Metal Loop	CPHTM44WJ3	1	Back	100	0.000	1.242	1.000	0.000	
		ANSI / IEEE	C95.1 199	2 - SAFETY LI	МІТ							Ext	remity					
			Spatial F	Peak								4.0 W/	kg (mW/	g)				
		Uncontrolled	Exposure/	General Popu	lation							averaged	over 10 g	rams				

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10.3 SAR Test Notes

General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 447498 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 two housing types: Aluminum, and Stainless Steel. 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 represent 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 highest output power channel for each test configuration is \leq 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

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LTE Notes:

- 1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
- MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
- 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.
- This device can only operate with 16 QAM on the uplink with less than or equal to 27 RB. QPSK and 16QAM LTE powers for RB size of 15 ("50% RB") and 27 ("100% RB") were additionally measured to support comparison and SAR test exclusion per KDB 941225 D05v02r04 Section 5.2.4 and 5.3.

WLAN Notes:

- 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.

Bluetooth Notes

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

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

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

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is \leq 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 was used as a conservative evaluation for the simultaneous transmission analysis. **Table 11-1**

Simultaneous maission Scenario with 2.4 Onz WEAN (nead 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	
	UMTS 850	0.001	0.342	0.343	
	UMTS 1750	0.348	0.342	0.690	
	UMTS 1900	0.759	0.342	1.101	
	LTE Band 12	0.006	0.342	0.348	
	LTE Band 13	0.006	0.342	0.348	
Head SAR	LTE Band 14	0.004	0.342	0.346	
TIEAU SAN	LTE Band 26 (Cell)	0.001	0.342	0.343	
	LTE Band 5 (Cell)	0.003	0.342	0.345	
	LTE Band 66 (AWS)	0.522	0.342	0.864	
	LTE Band 25 (PCS)	0.577	0.342	0.919	
	LTE Band 7	0.567	0.342	0.909	
	LTE Band 41	0.326	0.342	0.668	

Simultaneous Transmission Scenario with 2.4 GHz WLAN (Head at 1.0 cm)

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Exposure Condition	Mode	3G/4G SAR (W/kg)	Bluetooth SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)	Σ SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2	1+3	1+2+3
	UMTS 850	0.001	0.098	0.071	0.099	0.072	0.170
	UMTS 1750	0.348	0.098	0.071	0.446	0.419	0.517
	UMTS 1900	0.759	0.098	0.071	0.857	0.830	0.928
	LTE Band 12	0.006	0.098	0.071	0.104	0.077	0.175
	LTE Band 13	0.006	0.098	0.071	0.104	0.077	0.175
Head SAR	LTE Band 14	0.004	0.098	0.071	0.102	0.075	0.173
Heau SAR	LTE Band 26 (Cell)	0.001	0.098	0.071	0.099	0.072	0.170
	LTE Band 5 (Cell)	0.003	0.098	0.071	0.101	0.074	0.172
	LTE Band 66 (AWS)	0.522	0.098	0.071	0.620	0.593	0.691
	LTE Band 25 (PCS)	0.577	0.098	0.071	0.675	0.648	0.746
	LTE Band 7	0.567	0.098	0.071	0.665	0.638	0.736
	LTE Band 41	0.326	0.098	0.071	0.424	0.397	0.495

 Table 11-2

 Simultaneous Transmission Scenario with Bluetooth, and 5 GHz WLAN (Head at 1.0 cm)

Table 11-3

Simultaneous Transmission Scenario with Bluetooth and 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	0.098	0.071	0.169

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11.4 Extremity SAR Simultaneous Transmission Analysis

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

Sinultaneous Transmission Scenario with 2.4 Griz WEAN (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	
	UMTS 850	0.180	0.019	0.199	
	UMTS 1750	0.032	0.019	0.051	
	UMTS 1900	0.038	0.019	0.057	
	LTE Band 12	0.243	0.019	0.262	
	LTE Band 13	0.318	0.019	0.337	
Extremity SAR	LTE Band 14	0.282	0.019	0.301	
	LTE Band 26 (Cell)	0.185	0.019	0.204	
	LTE Band 5 (Cell)	0.195	0.019	0.214	
	LTE Band 66 (AWS)	0.047	0.019	0.066	
	LTE Band 25 (PCS)	0.046	0.019	0.065	
	LTE Band 7	0.041	0.019	0.060	
	LTE Band 41	0.007	0.019	0.026	

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

Table 11-5

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)	Σ SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2	1+3	1+2+3
	UMTS 850	0.180	0.006	0.001	0.186	0.181	0.187
	UMTS 1750	0.032	0.006	0.001	0.038	0.033	0.039
	UMTS 1900	0.038	0.006	0.001	0.044	0.039	0.045
	LTE Band 12	0.243	0.006	0.001	0.249	0.244	0.250
	LTE Band 13	0.318	0.006	0.001	0.324	0.319	0.325
Extremity SAR	LTE Band 14	0.282	0.006	0.001	0.288	0.283	0.289
Excernity SAR	LTE Band 26 (Cell)	0.185	0.006	0.001	0.191	0.186	0.192
	LTE Band 5 (Cell)	0.195	0.006	0.001	0.201	0.196	0.202
	LTE Band 66 (AWS)	0.047	0.006	0.001	0.053	0.048	0.054
	LTE Band 25 (PCS)	0.046	0.006	0.001	0.052	0.047	0.053
	LTE Band 7	0.041	0.006	0.001	0.047	0.042	0.048
	LTE Band 41	0.007	0.006	0.001	0.013	0.008	0.014

 Table 11-6

 Simultaneous Transmission Scenario with Bluetooth and WLAN (Extremity at 0.0 cm)

 5 GHz WI AN SAR

Exposure Condition	Bluetooth SAR (W/kg)	5 GHz WLAN SAR (W/kg)	Σ SAR (W/kg)
	1	2	1+2
Head SAR	0.006	0.001	0.007

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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 Numbe
Agilent	8753ES	S-Parameter Vector Network Analyzer	2/11/2022	Annual	2/11/2023	MY40003841
Agilent	E4438C	ESG Vector Signal Generator	3/22/2022	Annual	3/22/2023	US41460739
Agilent	E5515C	Wireless Communications Test Set	5/4/2021	Biennial	5/4/2023	GB41450275
Agilent	N5182A	MXG Vector Signal Generator	11/17/2021	Annual	11/17/2022	US46240505 MY47420837
Agilent Agilent	N5182A N9020A	MXG Vector Signal Generator MXA Signal Analyzer	1/12/2021 5/6/2022	Annual Annual	1/12/2023 5/6/2023	MY51240479
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	155166	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	9/21/2021	Annual	9/21/2022	2018527
Anritsu	MA24106A	USB Power Sensor	9/21/2021	Annual	9/21/2022	1827527
Anritsu	MA24106A	USB Power Sensor	9/21/2021	Annual	9/21/2022	1244515
Anritsu	MA24106A	USB Power Sensor	9/21/2021	Annual	9/21/2022	2018534
Anritsu	MA2411B	Pulse Power Sensor	3/2/2022	Annual	3/2/2023	1126066
Anritsu	MT8821C	Radio Communication Analyzer	5/2/2022	Annual	5/2/2023	6200901190
Anritsu	MT8821C	Radio Communication Analyzer	5/24/2022	Annual	5/24/2023	6201144418
Control Company	4040	Therm./Clock/Humidity Monitor	1/21/2022	Biennial	1/21/2023	160574418
Control Company	4040	Therm./Clock/Humidity Monitor	3/12/2021	Biennial	3/12/2023	210202100
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	C01065
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	C01064
Insize	1108-150	Digital Caliper	4/5/2022	Biennial	4/5/2023	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	NRX	Power Meter	11/22/2021	Annual	11/22/2022	102583
Rohde & Schwarz Rohde & Schwarz	CMW500 CMW500	Radio Communication Tester	12/22/2021 1/11/2022	Annual	,,	167284 167285
		Radio Communication Tester		Annual	1/11/2023	
Rohde & Schwarz	CMW500	Radio Communication Tester	4/14/2022	Annual	4/14/2023	101699
Rohde & Schwarz	CMW500 CMW500	Radio Communication Tester	4/14/2022 9/29/2021	Annual Annual	4/14/2023	106578
Rohde & Schwarz	CMW500	Radio Communication Tester		Annual	9/29/2022	145663 151849
Rohde& Schwarz Seekonk	NC-100	Wideband Radio Communication Tester Torque Wrench	9/29/2021 7/30/2020	Biennial	9/29/2022 7/30/2022	22217
SPEAG	DAKS-3.5	Portable DAK	10/7/2021	Annual	10/7/2022	1045
SPEAG	D750V3	750 MHz SAR Dipole	11/11/2019	Triennial	11/11/2022	1045
SPEAG	D750V3	750 MHz SAR Dipole	9/8/2020	Biennial	9/8/2022	1097
SPEAG	D835V2	835 MHz SAR Dipole	5/16/2022	Annual	5/16/2023	4d040
SPEAG	D850V2	835 MHz SAR Dipole	5/16/2022	Annual	5/16/2023	460
SPEAG	D1750V2	1750 MHz SAR Dipole	9/9/2020	Biennial	9/9/2022	1104
SPEAG	D1750V2	1750 MHz SAR Dipole	5/10/2022	Annual	5/10/2023	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	5/16/2022	Annual	5/16/2023	5d030
SPEAG	D1900V2	2450 MHz SAR Dipole	5/11/2022	Annual	5/11/2023	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/9/2021	Annual	11/9/2022	921
SPEAG	D2600V2	2600 MHz SAR Dipole	5/11/2022	Annual	5/11/2023	1042
SPEAG	D5GHzV2	5 GHz SAR Dipole	3/22/2022	Annual	3/22/2023	1123
SPEAG	EX3DV4	SAR Probe	4/19/2022	Annual	4/19/2023	7499
SPEAG	EX3DV4	SAR Probe	2/22/2022	Annual	2/22/2023	7427
SPEAG	EX3DV4	SAR Probe	12/10/2021	Annual	12/10/2022	7490
SPEAG	EX3DV4	SAR Probe	9/6/2021	Annual	9/6/2022	7674
SPEAG	EX3DV4	SAR Probe	3/21/2022	Annual	3/21/2023	7360
SPEAG	EX3DV4	SAR Probe	4/22/2022	Annual	4/22/2023	7532
SPEAG	EX3DV4	SAR Probe	1/19/2022	Annual	1/19/2023	3837
SPEAG	EX3DV4	SAR Probe	2/21/2022	Annual	2/21/2023	7308
SPEAG	EX3DV4	SAR Probe	3/22/2022	Annual	3/22/2023	7638
SPEAG	EX3DV4	SAR Probe	11/16/2021	Annual	11/16/2022	7639
SPEAG	EX3DV4	SAR Probe	3/22/2022	Annual	3/22/2023	7421
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2022	Annual	4/13/2023	1465
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/22/2022	Annual	2/22/2023	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/20/2021	Annual	10/20/2022	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2022	Annual	4/13/2023	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/11/2021	Annual	11/11/2022	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2022	Annual	4/13/2023	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2022	Annual	1/13/2023	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/24/2022	Annual	2/24/2023	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/21/2022	Annual	3/21/2023	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/21/2022	Annual	3/21/2023	534
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/22/2022	Annual	3/22/2023	604
SPEAG	MAIA	Modulation and Audio Interference Analyzer	CBT	N/A	CBT	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	CBT	N/A	CBT	1324

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

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14 MEASUREMENT UNCERTAINTIES

а	b	с	d	e=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x g/e	
	IEEE	Tol.	Prob.		c _i	c,	1gm	10gms	
Uncertainty Component	1528 Sec.	(± %)	Dist.	Div.	1gm	10 gms	u,	u,	v,
	000.				-		(± %)	(± %)	
Measurement System									
Probe Calibration	E2.1	7	Ν	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	Ν	1	0.7	0.7	0.9	0.9	8
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	Ν	1	1	1	0.3	0.3	8
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	8
Readout Electronics	E2.6	0.3	Ν	1	1	1	0.3	0.3	8
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	8
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	8
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	~
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	Ν	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	00
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	80
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	Ν	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	~~
Liquid Permittivity - Temperature Unceritainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	~~
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	~~
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	~~
Combined Standard Uncertainty (k=1)			RSS				12.2	12.0	191
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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