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RF EXPOSURE TEST REPORT

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

07/06/2026 – 08/18/2026

Test Site/Locations:

Element, Columbia, MD, USA
Element, Suwon, Korea

Document Serial No.:

1M2607060061-14.A3L(Rev2)

FCC ID:

A3LSMA185G

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-A185G/DS

Additional Model(s):

SM-A185G

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.25	1.20	1.20	1.18
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	<0.1	0.62	0.64	1.53
PCE	UMTS 850	828.40 - 846.80 MHz	0.36	1.18	1.18	1.30
PCE	UMTS 1755	1712.4 - 1752.6 MHz	0.21	0.77	0.77	2.49
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.17	0.60	0.60	1.43
PCE	LTE Band 12	699.7 - 715.3 MHz	0.18	0.66	0.66	0.84
PCE	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.19	0.55	0.55	1.27
PCE	LTE Band 26	814.7 - 848.3 MHz	0.24	0.99	0.99	1.27
PCE	LTE Band 5	824.7 - 848.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 66	1710.7 - 1779.3 MHz	0.23	1.09	1.09	1.80
PCE	LTE Band 4	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 2	1850.7 - 1909.3 MHz	0.18	1.04	1.04	1.75
PCE	LTE Band 41	2498.5 - 2687.5 MHz	0.19	0.54	0.54	1.04
DTS	2.4 GHz WIFI	2412 - 2472 MHz	0.53	0.30	0.30	0.50
N/A	5 GHz WIFI	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz	1.08	1.10	0.88	0.69
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.12	0.11	0.11	N/A
DOX	NFC	13.56 MHz	N/A	N/A	N/A	<0.1
Simultaneous SAR per KDB 690783 D01v01r03:			1.37	1.50	1.52	2.99

Overall SAR Summary					
RF Exposure Position	Head	Body-worn	Hotspot	Phablet	Simultaneous Transmission
1g SAR (W/kg)	1.08	1.20	1.20	N/A	1.52
10g SAR (W/kg)	N/A	N/A	N/A	N/A	2.99
Distance (mm)	0	5, 11, 17	5	0, 11, 13, 14, 17	N/A

This wireless portable device 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 2.9 of this report; for North American frequency bands only.

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

R.J. Ortanez
VP - Connected Technologies



The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

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Rev. No	Description	Issue Date	Revised By
-	Initial Release	08/13/2026	WKR0023859
Rev1	Updated per TCB Comments	08/19/2026	WKR0023859
Rev2	Updated per TCB Comments	08/28/2026	WKR0023859

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1 TEST LABORATORY INFORMATION

1.1 Introduction

This test report for device subject to testing at an accredited testing laboratory has been generated by the testing laboratory that tested the device. Measurements were performed at various locations within Element Materials Technology. Detailed location and accredited information regarding the testing laboratories are provided below.

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC
Test Lab Location	7185 Oakland Mills Road, Columbia, MD 21046, United States Tel. +1.410.290.6652 / Fax +1.410.290.6654
Accreditation Info.	Lab Code. (ISED): 2451B
	CAB Identifier (NIST): US0110
	ISO/IEC 17025 (A2LA): CERT #2041.01
	 CERT #2041.01
Measurement system No.	G, L, O

1.2.2 Testing Laboratory 2

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SUWON, LTD.
Test Lab Location	5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea Tel. +82.31.660.7391 / Fax +82)31-660-7318
Accreditation Info.	Lab Code. (ISED): 26168
	CAB Identifier (NIST): KR0169
	ISO/IEC 17025 (A2LA): CERT #2041.04
	 CERT #2041.04
Measurement system No.	S1, S6, S7, S8

Note: For each test performed, the test site can be verified with the probe serial numbers specified in the table of Test System Verification and Equipment List.

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
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 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz

2.2 Power Reduction for SAR

This device utilizes a power reduction mechanism for certain wireless modes and bands for SAR compliance under portable hotspot conditions and under certain conditions when the device is used in close proximity to the user's hand. All hotspot SAR evaluations for this device were performed at the maximum allowed output power applicable when hotspot mode is enabled. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in phablet use conditions. Detailed descriptions of the power reduction mechanism are included in the operational description.

This device also utilizes power reduction for certain wireless modes and bands when the receiver is active during voice or VoIP held-to-ear use. Held-to-ear SAR evaluations were performed at the applicable reduced output power levels according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism and applicable power levels are included in the operational description and tune-up procedure.

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2.3 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 D04v01.

2.3.1 Licensed Output Power

GSM/GPRS/EDGE 850										
Antenna A										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Maximum Power	Max Allowed Power	34.0	34.0	33.0	31.0	30.0	28.0	27.0	25.0	24.0
	Nominal	33.0	33.0	32.0	30.0	29.0	27.0	26.0	24.0	23.0
State = 1 (RCV)	Max Allowed Power	34.0	34.0	33.0	31.0	30.0	28.0	27.0	25.0	24.0
	Nominal	33.0	33.0	32.0	30.0	29.0	27.0	26.0	24.0	23.0
State = 2 (Hotspot)	Max Allowed Power	34.0	34.0	32.0	30.0	29.0	28.0	27.0	25.0	24.0
	Nominal	33.0	33.0	31.0	29.0	28.0	27.0	26.0	24.0	23.0
State = 3 (Grip)	Max Allowed Power	34.0	34.0	32.0	30.0	29.0	28.0	27.0	25.0	24.0
	Nominal	33.0	33.0	31.0	29.0	28.0	27.0	26.0	24.0	23.0
GSM/GPRS/EDGE 1900										
Antenna A										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Maximum Power	Max Allowed Power	31.0	31.0	30.0	28.0	27.0	27.0	26.0	24.0	23.0
	Nominal	30.0	30.0	29.0	27.0	26.0	26.0	25.0	23.0	22.0
State = 1 (RCV)	Max Allowed Power	31.0	31.0	30.0	28.0	27.0	27.0	26.0	24.0	23.0
	Nominal	30.0	30.0	29.0	27.0	26.0	26.0	25.0	23.0	22.0
State = 2 (Hotspot)	Max Allowed Power	29.0	29.0	26.0	24.5	23.0	27.0	26.0	24.0	23.0
	Nominal	28.0	28.0	25.0	23.5	22.0	26.0	25.0	23.0	22.0
State = 3 (Grip)	Max Allowed Power	29.0	29.0	26.0	24.5	23.0	27.0	26.0	24.0	23.0
	Nominal	28.0	28.0	25.0	23.5	22.0	26.0	25.0	23.0	22.0

For GSM, the above powers listed are GSM burst average values.

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UMTS Band 5 (850 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Maximum Power	Max Allowed Power	25.5	24.5	23.5	23.5
	Nominal	24.5	23.5	22.5	22.5
State = 1 (RCV)	Max Allowed Power	25.5	24.5	23.5	23.5
	Nominal	24.5	23.5	22.5	22.5
State = 2 (Hotspot)	Max Allowed Power	24.5	23.5	22.5	22.5
	Nominal	23.5	22.5	21.5	21.5
State = 3 (Grip)	Max Allowed Power	24.5	23.5	22.5	22.5
	Nominal	23.5	22.5	21.5	21.5
UMTS Band 4 (1750 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Maximum Power	Max Allowed Power	25.0	24.0	23.0	23.0
	Nominal	24.0	23.0	22.0	22.0
State = 1 (RCV)	Max Allowed Power	24.0	23.0	22.0	22.0
	Nominal	23.0	22.0	21.0	21.0
State = 2 (Hotspot)	Max Allowed Power	21.0	20.0	19.0	19.0
	Nominal	20.0	19.0	18.0	18.0
State = 3 (Grip)	Max Allowed Power	21.0	20.0	19.0	19.0
	Nominal	20.0	19.0	18.0	18.0
UMTS Band 2 (1900 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Maximum Power	Max Allowed Power	25.0	24.0	23.0	23.0
	Nominal	24.0	23.0	22.0	22.0
State = 1 (RCV)	Max Allowed Power	24.0	23.0	22.0	22.0
	Nominal	23.0	22.0	21.0	21.0
State = 2 (Hotspot)	Max Allowed Power	21.0	20.0	19.0	19.0
	Nominal	20.0	19.0	18.0	18.0
State = 3 (Grip)	Max Allowed Power	21.0	20.0	19.0	19.0
	Nominal	20.0	19.0	18.0	18.0

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)			
			Maximum Power	State = 1 (RCV)	State = 2 (Hotspot)	State = 3 (Grip)
LTE Band 12/17	A	Max Allowed Power	25.0	25.0	24.0	24.0
		Nominal	24.0	24.0	23.0	23.0
LTE Band 13	A	Max Allowed Power	25.0	25.0	24.0	24.0
		Nominal	24.0	24.0	23.0	23.0
LTE Band 26/5	A	Max Allowed Power	25.0	25.0	24.0	24.0
		Nominal	24.0	24.0	23.0	23.0
LTE Band 66/4	A	Max Allowed Power	24.0	24.0	22.0	22.0
		Nominal	23.0	23.0	21.0	21.0
LTE Band 2	A	Max Allowed Power	24.0	24.0	21.0	21.0
		Nominal	23.0	23.0	20.0	20.0
LTE Band 41	A	Max Allowed Power	24.0	24.0	20.0	20.0
		Nominal	23.0	23.0	19.0	19.0

For LTE TDD, the above powers listed are TDD burst average values.

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2.3.2 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Maximum Power, Reduced (Receiver)

Band	IEEE 802.11 Modulated Output Power (in dBm)						
	SISO						
	Antenna C						
	b		g		n		
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	
2.4 GHz WLAN	19.0	18.0	17.0	16.0	17.0		
	ch. 12: 6.0	5.0	ch. 12: 6.0	5.0	ch. 11: 15.5	14.5	
	ch. 13: 6.0	5.0	ch. 13: 6.0	5.0	ch. 12: 6.0	5.0	
					ch. 13: 6.0	5.0	

The below table is applicable in the following conditions:

- Reduced (Grip, Hotspot)

Band	IEEE 802.11 Modulated Output Power (in dBm)						
	SISO						
	Antenna C						
	b		g		n		
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	
2.4 GHz WLAN	15.0	14.0	15.0	14.0	15.0		
	ch. 12: 6.0	5.0	ch. 12: 6.0	5.0	ch. 12: 6.0	5.0	
	ch. 13: 6.0	5.0	ch. 13: 6.0	5.0	ch. 13: 6.0	5.0	

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2.3.3 5 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Maximum Power

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)					
		SISO					
		Antenna C					
		a		n		ac	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-2A	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-2C	17.0 ch. 100: 15.5	16.0 14.5	17.0 ch. 100: 15.5	16.0 14.5	17.0 ch. 100: 15.5	16.0 14.5
	UNII-3	17.0	16.0	17.0	16.0	17.0	16.0
5 GHz WIFI (40MHz BW)	UNII-1			16.0	15.0	16.0	15.0
	UNII-2A			16.0	15.0	16.0	15.0
	UNII-2C			16.0 ch. 102: 13.5	15.0 12.5	16.0 ch. 102: 13.5	15.0 12.5
	UNII-3			16.0	15.0	16.0	15.0
5 GHz WIFI (80MHz BW)	UNII-1					14.0	13.0
	UNII-2A					13.0	12.0
	UNII-2C					14.0 ch. 106: 12.5	13.0 11.5
	UNII-3					14.0	13.0

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The below table is applicable in the following conditions:

- Reduced (Grip, Hotspot)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)					
		SISO					
		Antenna C					
		a		n		ac	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-2A	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-2C	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-3	11.0	10.0	11.0	10.0	11.0	10.0
5 GHz WIFI (40MHz BW)	UNII-1			11.0	10.0	11.0	10.0
	UNII-2A			11.0	10.0	11.0	10.0
	UNII-2C			11.0	10.0	11.0	10.0
	UNII-3			11.0	10.0	11.0	10.0
5 GHz WIFI (80MHz BW)	UNII-1					11.0	10.0
	UNII-2A					11.0	10.0
	UNII-2C					11.0	10.0
	UNII-3					11.0	10.0

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The below table is applicable in the following conditions:

- Reduced (Receiver)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)					
		SISO					
		Antenna C					
		a		n		ac	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2A	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2C	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-3	14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI (40MHz BW)	UNII-1			14.0	13.0	14.0	13.0
	UNII-2A			14.0	13.0	14.0	13.0
	UNII-2C			14.0	13.0	14.0	13.0
	UNII-3			ch. 102: 13.5	12.5	ch. 102: 13.5	12.5
5 GHz WIFI (80MHz BW)	UNII-1					14.0	13.0
	UNII-2A					13.0	12.0
	UNII-2C					14.0	13.0
	UNII-3					ch. 106: 12.5	11.5
						14.0	13.0

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2.3.4 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable in the following conditions:

- Maximum Power

Mode	Data Rate	Modulated Output Power (in dBm)	
		Single Antenna	
		Antenna C	
Maximum / Nominal Power		Max	Nom.
Bluetooth	1Mbps	12.0	11.0
Bluetooth EDR	2Mbps	8.0	7.0
Bluetooth EDR	3Mbps	8.0	7.0
Bluetooth LE	1Mbps	7.5	6.5
Bluetooth LE	2Mbps	7.5	6.5
Bluetooth LE	125kbps	7.5	6.5
Bluetooth LE	500kbps	7.5	6.5

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2.4 DUT Antenna Locations

A diagram showing the location of the device antennas can be found in the DUT Antenna Diagram and SAR Test Setup Photographs Appendix. Since the diagonal dimension of this device is > 160 mm and <200 mm, it is considered a “phablet.” and operates similar to a traditional portable handset.

Table 2-1
Device Edges/Sides for SAR Testing

Antenna	Back	Front	Top	Bottom	Right	Left
A	Yes	Yes	No	Yes	Yes	Yes
C	Yes	Yes	Yes	No	No	Yes
NFC	Yes	Yes	Yes	No	No	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 648474 D04. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, UNII- 2A and U-NII-2C operations are disabled.

2.5 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 DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

2.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 procedures.

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Table 2-2
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	Notes
1	GSM voice + 2.4 GHz WLAN Ant C	Yes	Yes	N/A	Yes	
2	GSM voice + 5 GHz WLAN Ant C	Yes	Yes	N/A	Yes	
3	GSM voice + 2.4 GHz Bluetooth Ant C	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
4	GSM voice + 5 GHz WLAN Ant C + 2.4 GHz Bluetooth Ant C	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
5	UMTS + 2.4 GHz WLAN Ant C	Yes	Yes	Yes	Yes	
6	UMTS + 5 GHz WLAN Ant C	Yes	Yes	Yes	Yes	
7	UMTS + 2.4 GHz Bluetooth Ant C	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
8	UMTS + 5 GHz WLAN Ant C + 2.4 GHz Bluetooth Ant C	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
9	LTE + 2.4 GHz WLAN Ant C	Yes	Yes	Yes	Yes	
10	LTE + 5 GHz WLAN Ant C	Yes	Yes	Yes	Yes	
11	LTE + 2.4 GHz Bluetooth Ant C	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
12	LTE + 5 GHz WLAN Ant C + 2.4 GHz Bluetooth Ant C	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
13	GPRS/EDGE + 2.4 GHz WLAN Ant C	N/A	N/A	Yes	Yes	
14	GPRS/EDGE + 5 GHz WLAN Ant C	N/A	N/A	Yes	Yes	
15	GPRS/EDGE + 2.4 GHz Bluetooth Ant C	N/A	N/A	N/A	Yes	^ Bluetooth Tethering is considered
16	GPRS/EDGE + 5 GHz WLAN Ant C + 2.4 GHz Bluetooth Ant C	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered

1. 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 Hotspot scenario.
2. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
3. 5 GHz Wireless Router is only supported for U-NII-1 and U-NII-3 by S/W, therefore U-NII-2A and U-NII-2C were not evaluated for wireless router conditions.
4. This device supports Bluetooth Tethering.
5. NFC were evaluated for phablet based on expected usage conditions.

2.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

For head exposure, since the U-NII-1 band has a higher specified maximum output power than the U-NII-2A band, SAR measurements were performed in the U-NII-1 band. The highest reported SAR was adjusted by the ratio of the lower to higher specified maximum output power, and since the adjusted SAR is ≤ 1.2 W/kg, head SAR testing is not required for the U-NII-2A band.

For body-worn and phablet exposure, since the specified maximum output powers are the same for the U-NII-1 and U-NII-2A bands and the highest reported SAR for U-NII-2A is ≤ 1.2 W/kg, body-worn and phablet SAR testing is not required for the U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-2A and U-NII-2C WIFI, only 2.4 GHz WIFI, 2.4 GHz Bluetooth, U-NII-1 and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ac with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) UP to 256 QAM is supported
- c) TDWR and Band gap channels are supported for 5 GHz

Per FCC KDB Publication 648474 D04, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported in the U-NII-2A and U-NII-2C Wi-Fi bands, phablet SAR tests were required.

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(B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

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.

Per FCC KDB Publication 648474 D04, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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.

2.8 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- October 2024 TCB Workshop Notes (Extremity Exclusions)

2.9 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 12

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3 LTE INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 12: 699.7 - 715.3 MHz				
	LTE Band 17: 706.5 - 713.5 MHz				
	LTE Band 13: 779.5 - 784.5 MHz				
	LTE Band 26: 814.7 - 848.3 MHz				
	LTE Band 5: 824.7 - 848.3 MHz				
	LTE Band 66: 1710.7 - 1779.3 MHz				
	LTE Band 4: 1710.7 - 1754.3 MHz				
	LTE Band 2: 1850.7 - 1909.3 MHz				
	LTE Band 41: 2498.5 - 2687.5 MHz				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)		715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)		714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)		713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)		711 (23130)
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)		713.5 (23825)
LTE Band 17: 10 MHz	709 (23780)		710 (23790)		711 (23800)
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz	(N/A)		782 (23230)		(N/A)
LTE Band 26: 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26: 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26: 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26: 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 26: 15 MHz	821.5 (26765)		831.5 (26865)		841.5 (26965)
LTE Band 5: 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5: 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5: 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5: 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66: 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66: 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66: 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66: 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66: 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66: 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4: 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)
LTE Band 4: 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4: 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4: 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4: 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4: 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 2: 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2: 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2: 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2: 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2: 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2: 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	UL UE Cat 5, DL UE Cat 4				
Modulations Supported in UL	QPSK, 16QAM, 64QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Additional Information	This device does not support full CA features on 3GPP Release 12. It supports carrier aggregation, downlink MIMO features. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 12 Features are not supported: Relay, HetNet, Enhanced MIMO, eCIC, eMBMS, Wifi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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4 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.

4.1 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 4-1).

Equation 4-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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5 DOSIMETRIC ASSESSMENT

5.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 5-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 5-1) 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 5-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

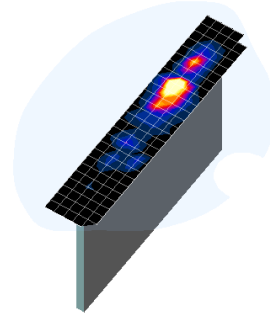


Figure 5-1
Sample SAR Area
Scan

Table 5-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

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

*Also compliant to IEEE 1528-2013 Table 6

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6 DEFINITION OF REFERENCE POINTS

6.1 EAR REFERENCE POINT

Figure 6-2 shows the front, back and side views of the SAM Twin Phantom. The point “M” is the reference point for the center of the mouth, “LE” is the left ear reference point (ERP), and “RE” is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 6-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 6-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

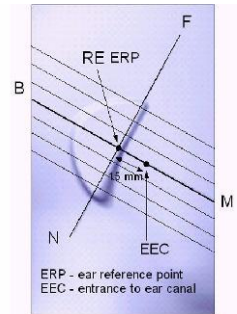


Figure 6-1
Close-Up Side view
of ERP

6.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (See Figure 6-3). The acoustic output was then located at the same level as the center of the ear reference point. The test device was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 6-2
Front, back and side view of SAM Twin Phantom

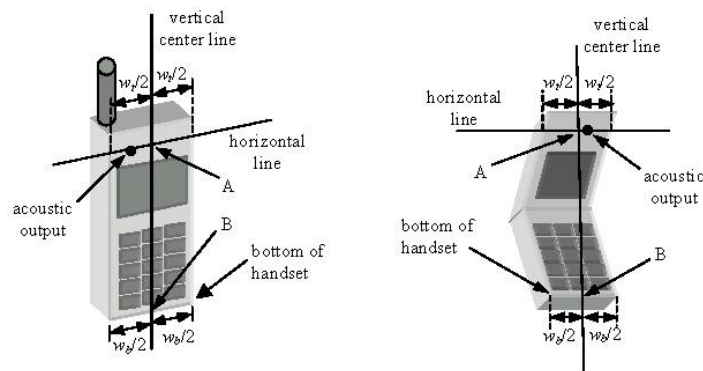


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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7 TEST CONFIGURATION POSITIONS

7.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

7.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 7-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.

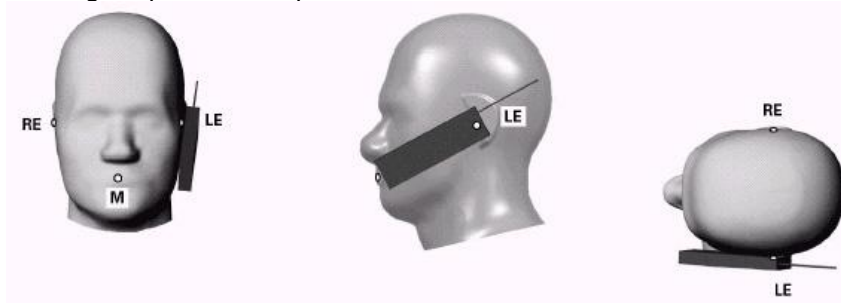


Figure 7-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical with respect to the line NF.
5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 7-2).

7.3 Positioning for Ear / 15° Tilt

With the test device aligned in the “Cheek Position”:

1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 7-2).

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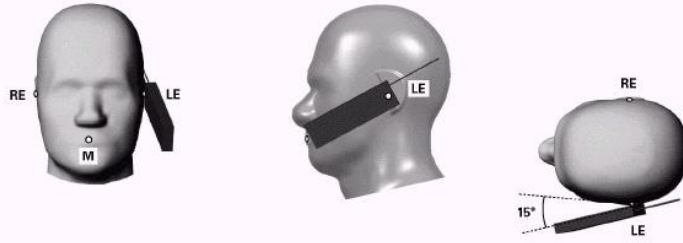


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

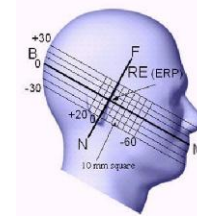


Figure 7-3 Side view w/ relevant markings

7.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

7.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 7-4). Per FCC KDB Publication 648474 D04, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D04v01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

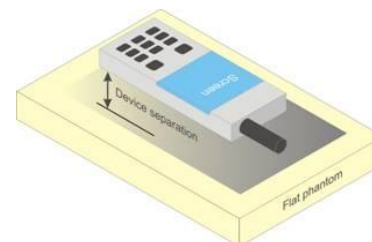


Figure 7-4 Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that

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dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

7.6 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. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D04v01 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D04v01, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

7.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D04v01 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7.8 Phablet Configurations

For smart phones with a display diagonal dimension $> 150 \text{ mm}$ or an overall diagonal dimension $> 160 \text{ mm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required

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head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg and/or when body SAR is tested at > 5 mm.

7.9 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close to the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level.

FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in the Power Reduction Verification Appendix.

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8 RF EXPOSURE LIMITS

8.1 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.

8.2 Controlled Environment

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

Table 8-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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9 FCC MEASUREMENT PROCEDURES

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

9.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

9.2 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.

9.3 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.

9.4 SAR Measurement Conditions for UMTS

9.4.1 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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9.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

9.4.3 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.

9.4.4 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.

9.4.5 SAR Measurements with Rel 6 HSUPA

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

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

9.4.6 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

9.5 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).

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9.5.1 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.

9.5.2 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.

9.5.3 A-MPR

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

9.5.4 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 $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

9.5.5 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.

9.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data

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connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

9.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

9.6.1 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.

9.6.2 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.

9.6.3 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.

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9.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.5 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.6 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac 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 and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop and FCC guidance, 802.11ax/be was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

9.6.7 Initial Test Configuration Procedure

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

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When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 9.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.8 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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10 RF CONDUCTED POWERS

10.1 GSM Conducted Powers

Table 10-1
Measured *Maximum Power* for State = 1 (RCV) for GSM 850 Ant A
Measured *Maximum Power* for State = 1 (RCV) for GSM 1900 Ant A

Maximum Burst-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	33.05	33.07	32.12	30.10	28.98	26.53	25.28	23.02	21.91
	190	32.91	32.93	31.88	30.05	28.80	26.65	25.46	23.31	22.05
	251	32.90	32.92	31.92	30.09	28.77	26.68	25.56	23.21	22.01
GSM 1900	512	29.99	29.68	28.43	26.20	25.17	25.33	24.23	22.09	20.93
	661	29.98	29.80	28.45	26.21	25.20	25.72	24.51	22.40	21.22
	810	29.96	29.98	28.55	26.31	25.02	25.73	24.57	22.43	21.19

Calculated Maximum Frame-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	23.85	23.87	25.93	25.67	25.80	17.33	19.09	18.59	18.73
	190	23.71	23.73	25.69	25.62	25.62	17.45	19.27	18.88	18.87
	251	23.70	23.72	25.73	25.66	25.59	17.48	19.37	18.78	18.83
GSM 1900	512	20.79	20.48	22.24	21.77	21.99	16.13	18.04	17.66	17.75
	661	20.78	20.60	22.26	21.78	22.02	16.52	18.32	17.97	18.04
	810	20.76	20.78	22.36	21.88	21.84	16.53	18.38	18.00	18.01

GSM 850	Frame	23.80	23.80	25.81	25.57	25.82	17.80	19.81	19.57	19.82
GSM 1900	Avg.Targets:	20.80	20.80	22.81	22.57	22.82	16.80	18.81	18.57	18.82

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Table 10-2
Measured State = 2, 3 (Hotspot, Grip) for GSM 850 Ant A
Measured State = 2, 3 (Hotspot, Grip) for GSM 1900 Ant A

Maximum Burst-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	33.05	32.83	30.81	28.71	27.77	26.53	25.28	23.02	21.91
	190	32.91	32.70	30.65	28.53	27.66	26.65	25.46	23.31	22.05
	251	32.90	32.69	30.74	28.60	27.68	26.68	25.56	23.21	22.01
GSM 1900	512	27.81	27.79	24.26	22.60	21.13	25.33	24.23	22.09	20.93
	661	27.87	27.88	24.29	22.63	21.22	25.72	24.51	22.40	21.22
	810	28.03	28.04	24.40	22.74	21.23	25.73	24.57	22.43	21.19

Calculated Maximum Frame-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	23.85	23.63	24.62	24.28	24.59	17.33	19.09	18.59	18.73
	190	23.71	23.50	24.46	24.10	24.48	17.45	19.27	18.88	18.87
	251	23.70	23.49	24.55	24.17	24.50	17.48	19.37	18.78	18.83
GSM 1900	512	18.61	18.59	18.07	18.17	17.95	16.13	18.04	17.66	17.75
	661	18.67	18.68	18.10	18.20	18.04	16.52	18.32	17.97	18.04
	810	18.83	18.84	18.21	18.31	18.05	16.53	18.38	18.00	18.01

GSM 850	Frame Avg.Targets:	23.80	23.80	24.81	24.57	24.82	17.80	19.81	19.57	19.82
GSM 1900	Frame Avg.Targets:	18.80	18.80	18.81	19.07	18.82	16.80	18.81	18.57	18.82

Note:

- Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
- EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

GSM Class: B
GPRS Multislot class: 12 (Max 4 Tx uplink slots)
EDGE Multislot class: 12 (Max 4 Tx uplink slots)
DTM Multislot Class: N/A



Figure 10-1
Power Measurement Setup

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10.2 UMTS Conducted Powers

Table 10-3
Measured Maximum Power for State = 1 (RCV) for UMTS 850 Ant A
Measured Maximum Power for UMTS 1750 & UMTS 1900 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	24.25	24.22	24.30	23.82	23.51	23.42	23.52	23.29	23.35	-
99		12.2 kbps AMR	24.27	24.24	24.29	23.83	23.54	23.47	23.57	23.35	23.38	-
6	HSDPA	Subtest 1	23.24	23.20	23.28	22.95	22.64	22.58	22.67	22.41	22.45	0
6		Subtest 2	23.16	23.15	23.24	22.89	22.58	22.49	22.60	22.36	22.40	0
6		Subtest 3	22.71	22.69	22.73	22.39	22.09	21.99	22.09	21.88	21.90	0.5
6		Subtest 4	22.69	22.65	22.70	22.37	22.06	21.98	22.07	21.84	21.87	0.5
6	HSUPA	Subtest 1	21.55	22.01	22.06	21.00	20.98	20.70	20.76	20.51	20.55	1
6		Subtest 2	21.49	21.47	21.48	20.78	20.66	20.65	20.74	20.55	20.55	1
6		Subtest 3	22.49	22.48	22.47	21.74	21.62	21.64	21.70	21.50	21.51	0
6		Subtest 4	20.97	20.98	21.11	20.45	20.26	20.19	20.09	20.05	20.08	1.5
6		Subtest 5	22.49	22.48	22.52	21.87	21.60	21.59	21.74	21.49	21.58	0
8	DC-HSDPA	Subtest 1	23.11	23.16	23.21	22.83	22.55	22.45	22.56	22.32	22.40	0
8		Subtest 2	23.13	23.10	23.25	22.79	22.49	22.40	22.41	22.33	22.37	0
8		Subtest 3	22.68	22.71	22.70	22.20	22.03	21.87	21.99	21.80	21.83	0.5
8		Subtest 4	22.73	22.68	22.68	22.25	22.05	21.85	21.96	21.83	21.88	0.5

Table 10-4
Measured State = 1 (RCV) for UMTS 1750 & UMTS 1900 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.77	22.47	22.42	22.52	22.23	22.31	-
99		12.2 kbps AMR	22.82	22.51	22.47	22.54	22.31	22.35	-
6	HSDPA	Subtest 1	21.92	21.63	21.57	21.63	21.40	21.42	0
6		Subtest 2	21.88	21.58	21.51	21.56	21.35	21.37	0
6		Subtest 3	21.41	21.12	21.01	21.07	20.86	20.89	0.5
6		Subtest 4	21.38	21.10	21.00	21.04	21.84	20.86	0.5
6	HSUPA	Subtest 1	19.89	20.03	19.51	19.60	19.51	19.53	1
6		Subtest 2	19.79	19.54	19.48	19.55	19.32	19.41	1
6		Subtest 3	20.80	20.52	20.57	20.47	20.31	20.40	0
6		Subtest 4	19.30	19.11	19.09	19.04	19.01	19.02	1.5
6		Subtest 5	20.79	20.47	20.39	20.61	20.33	20.31	0
8	DC-HSDPA	Subtest 1	21.81	21.79	21.83	21.48	21.32	21.34	0
8		Subtest 2	21.79	21.82	21.77	21.50	21.26	21.40	0
8		Subtest 3	21.27	21.33	21.29	20.97	20.73	20.84	0.5
8		Subtest 4	21.24	21.27	21.27	21.01	20.77	20.85	0.5

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Table 10-5
Measured State = 2, 3 (Hotspot, Grip) for UMTS 850 & UMTS 1750 & UMTS 1900 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.40	23.34	23.42	19.82	19.51	19.46	19.57	19.34	19.35	-
99		12.2 kbps AMR	23.17	23.11	23.19	19.81	19.54	19.51	19.56	19.37	19.38	-
6	HSDPA	Subtest 1	22.33	22.31	22.39	18.98	18.45	18.62	18.69	18.45	18.48	0
6		Subtest 2	22.26	22.23	22.29	18.94	18.65	18.58	18.65	18.41	18.44	0
6		Subtest 3	21.76	21.73	21.78	18.47	18.17	18.09	18.16	17.93	17.94	0.5
6		Subtest 4	21.73	21.71	21.77	18.39	18.12	18.04	18.14	17.89	17.91	0.5
6	HSUPA	Subtest 1	20.30	20.78	20.37	16.95	16.69	16.64	16.69	16.53	16.56	1
6		Subtest 2	20.21	20.13	20.18	16.84	16.53	16.47	17.56	17.31	17.34	1
6		Subtest 3	21.17	21.08	21.20	17.78	17.48	17.47	17.54	17.36	17.33	0
6		Subtest 4	19.71	19.70	19.71	16.31	16.09	16.04	16.03	15.90	15.88	1.5
6		Subtest 5	21.16	21.11	21.15	17.78	17.47	17.41	17.60	17.31	17.37	0
8	DC-HSDPA	Subtest 1	22.20	22.19	22.27	18.80	18.60	18.46	18.47	18.40	18.38	0
8		Subtest 2	22.19	22.21	22.24	18.74	18.57	18.40	18.53	18.31	18.37	0
8		Subtest 3	21.66	21.75	21.75	18.29	17.98	17.90	18.00	17.79	17.89	0.5
8		Subtest 4	21.64	21.70	21.71	18.26	18.01	17.88	17.97	17.81	17.86	0.5

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.



Figure 10-2
Power Measurement Setup

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10.3 LTE Conducted Powers

Note: 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 LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

10.3.1 LTE Band 12

Table 10-6
LTE Band 12 Ant A Measured *Maximum Power* for State = 1 (RCV) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.52	0	0
	1	25	24.62		0
	1	49	24.45		0
	25	0	23.48	0-1	1
	25	12	23.64		1
	25	25	23.54		1
	50	0	23.50		1
16QAM	1	0	23.50	0-1	1
	1	25	23.57		1
	1	49	23.43		1
	25	0	22.59	0-2	2
	25	12	22.75		2
	25	25	22.64		2
	50	0	22.50		2
64QAM	1	0	22.85	0-2	2
	1	25	22.94		2
	1	49	22.77		2
	25	0	21.58	0-3	3
	25	12	21.72		3
	25	25	21.64		3
	50	0	21.57		3

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Table 10-7
LTE Band 12 Ant A Measured State = 2, 3 (Hotspot, Grip) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.97	0	0
	1	25	23.04		0
	1	49	22.89		0
	25	0	22.85	0-1	0
	25	12	22.98		0
	25	25	22.88		0
	50	0	22.90		0
16QAM	1	0	23.05	0-1	0
	1	25	23.12		0
	1	49	22.98		0
	25	0	21.98	0-2	1
	25	12	22.03		1
	25	25	22.02		1
	50	0	21.89		1
64QAM	1	0	22.34	0-2	1
	1	25	22.31		1
	1	49	22.23		1
	25	0	20.95	0-3	2
	25	12	21.10		2
	25	25	20.97		2
	50	0	20.95		2

10.3.2 LTE Band 13

Table 10-8
LTE Band 13 Ant A Measured *Maximum Power* for State = 1 (RCV) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.19	0	0
	1	25	24.29		0
	1	49	24.17		0
	25	0	23.16	0-1	1
	25	12	23.25		1
	25	25	23.19		1
	50	0	23.20		1
16QAM	1	0	23.57	0-1	1
	1	25	23.57		1
	1	49	23.46		1
	25	0	22.26	0-2	2
	25	12	22.31		2
	25	25	22.25		2
	50	0	22.22		2
64QAM	1	0	22.47	0-2	2
	1	25	22.61		2
	1	49	22.43		2
	25	0	21.24	0-3	3
	25	12	21.34		3
	25	25	21.26		3
	50	0	21.28		3

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Table 10-9
LTE Band 13 Ant A Measured State = 2, 3 (Hotspot, Grip) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.98	0	0
	1	25	23.13		0
	1	49	23.02		0
	25	0	23.02	0-1	0
	25	12	23.10		0
	25	25	23.08		0
	50	0	23.06		0
16QAM	1	0	23.08	0-1	0
	1	25	23.28		0
	1	49	23.21		0
	25	0	22.05	0-2	1
	25	12	22.15		1
	25	25	22.08		1
	50	0	22.01		1
64QAM	1	0	22.22	0-2	1
	1	25	22.26		1
	1	49	22.11		1
	25	0	21.12	0-3	2
	25	12	21.16		2
	25	25	21.14		2
	50	0	21.10		2

10.3.3 LTE Band 26

Table 10-10
LTE Band 26 Ant A Measured *Maximum Power* for State = 1 (RCV) - 15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.31	0	0
	1	36	24.32		0
	1	74	24.26		0
	36	0	23.33	0-1	1
	36	18	23.34		1
	36	37	23.29		1
	75	0	23.30		1
16QAM	1	0	23.73	0-1	1
	1	36	23.87		1
	1	74	23.75		1
	36	0	22.37	0-2	2
	36	18	22.37		2
	36	37	22.35		2
	75	0	22.36		2
64QAM	1	0	22.30	0-2	2
	1	36	22.31		2
	1	74	22.28		2
	36	0	21.38	0-3	3
	36	18	21.43		3
	36	37	21.36		3
	75	0	21.43		3

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Table 10-11
LTE Band 26 Ant A Measured State = 2, 3 (Hotspot, Grip) - 15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.68	0	0
	1	36	22.81		0
	1	74	22.74		0
	36	0	22.64	0-1	0
	36	18	22.74		0
	36	37	22.73		0
	75	0	22.71		0
16QAM	1	0	22.89	0-1	0
	1	36	23.08		0
	1	74	22.99		0
	36	0	21.68	0-2	1
	36	18	21.80		1
	36	37	21.79		1
	75	0	21.75		1
64QAM	1	0	21.89	0-2	1
	1	36	21.99		1
	1	74	21.97		1
	36	0	20.73	0-3	2
	36	18	20.83		2
	36	37	20.86		2
	75	0	20.73		2

10.3.4 LTE Band 66

Table 10-12
LTE Band 66 (AWS) Ant A Measured *Maximum Power* for State = 1 (RCV) - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.87	23.56	23.51	0	0
	1	50	23.96	23.72	23.81		0
	1	99	23.68	23.54	23.63		0
	50	0	22.85	22.61	22.72	0-1	1
	50	25	22.96	22.77	22.82		1
	50	50	22.75	22.83	22.69		1
	100	0	22.79	22.72	22.74		1
16QAM	1	0	22.95	22.94	22.76	0-1	1
	1	50	22.99	23.00	22.95		1
	1	99	22.94	22.83	22.84		1
	50	0	21.84	21.59	21.70	0-2	2
	50	25	21.94	21.73	21.80		2
	50	50	21.73	21.82	21.68		2
	100	0	21.78	21.72	21.68		2
64QAM	1	0	21.94	21.74	21.72	0-2	2
	1	50	21.98	21.94	21.93		2
	1	99	21.87	21.79	21.85		2
	50	0	20.83	20.68	20.74	0-3	3
	50	25	20.96	20.81	20.82		3
	50	50	20.76	20.84	20.69		3
	100	0	20.79	20.79	20.72		3

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Table 10-13
LTE Band 66 (AWS) Ant A Measured State = 2, 3 (Hotspot, Grip) - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.88	20.67	20.54	0	0
	1	50	21.08	20.84	20.85		0
	1	99	20.75	20.60	20.67		0
	50	0	20.90	20.73	20.72	0-1	0
	50	25	21.04	20.80	20.83		0
	50	50	20.86	20.83	20.73		0
16QAM	100	0	20.87	20.76	20.73	0	
	1	0	21.26	20.93	20.87	0-1	0
	1	50	21.38	21.08	21.14		0
	1	99	20.99	20.83	21.10		0
	50	0	20.90	20.72	20.73	0-2	0
	50	25	21.05	20.80	20.83		0
	50	50	20.88	20.82	20.76		0
	100	0	20.89	20.77	20.73		0
64QAM	1	0	21.08	20.88	20.71	0-2	0
	1	50	21.21	21.08	21.12		0
	1	99	20.99	20.85	20.92		0
	50	0	19.98	19.73	19.79	0-3	1
	50	25	20.12	19.89	19.88		1
	50	50	19.95	19.92	19.79		1
	100	0	19.96	19.85	19.78		1

10.3.5 LTE Band 2

Table 10-14
LTE Band 2 (PCS) Ant A Measured *Maximum Power* for State = 1 (RCV)
- 20 MHz Bandwidth

LTE Band 2 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700.0 (1860.0 MHz)	18900.0 (1880.0 MHz)	19100.0 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.64	23.65	23.55	0	0
	1	50	23.76	23.78	23.75		0
	1	99	23.51	23.55	23.60		0
	50	0	22.73	22.75	22.78	0-1	1
	50	25	22.76	22.81	22.76		1
	50	50	22.60	22.70	22.69		1
	100	0	22.71	22.76	22.75		1
16QAM	1	0	22.97	22.74	22.93	0-1	1
	1	50	22.98	22.89	22.95		1
	1	99	22.99	22.68	22.94		1
	50	0	21.94	21.55	21.92	0-2	2
	50	25	21.85	21.71	21.78		2
	50	50	21.69	21.78	21.92		2
	100	0	21.84	21.64	21.96		2
64QAM	1	0	21.76	21.79	21.64	0-2	2
	1	50	21.86	21.94	21.83		2
	1	99	21.63	21.74	21.67		2
	50	0	21.00	20.52	20.99	0-3	3
	50	25	20.92	20.74	20.85		3
	50	50	20.77	20.77	20.96		3
	100	0	20.88	20.63	20.98		3

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Table 10-15
LTE Band 2 (PCS) Ant A Measured State = 2, 3 (Hotspot, Grip) - 20 MHz Bandwidth

LTE Band 2 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700.0 (1860.0 MHz)	18900.0 (1880.0 MHz)	19100.0 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.74	19.64	19.70	0	0
	1	50	19.85	19.83	19.87		0
	1	99	19.68	19.63	19.62		0
	50	0	19.85	19.58	19.87	0-1	0
	50	25	19.87	19.85	19.90		0
	50	50	19.71	19.79	19.84		0
	100	0	19.78	19.72	19.80		0
16QAM	1	0	20.03	19.97	19.95	0-1	0
	1	50	20.29	20.22	20.14		0
	1	99	19.91	19.96	19.86		0
	50	0	19.90	19.62	19.98	0-2	0
	50	25	19.87	19.82	19.81		0
	50	50	19.74	19.86	19.93		0
	100	0	19.81	19.75	19.98		0
64QAM	1	0	20.03	19.90	19.93	0-2	0
	1	50	20.16	20.12	20.06		0
	1	99	19.94	19.86	19.81		0
	50	0	19.93	19.65	20.01	0-3	0
	50	25	19.91	19.85	19.85		0
	50	50	19.78	19.90	19.95		0
	100	0	19.82	19.77	20.00		0

10.3.6 LTE Band 41

Table 10-16
LTE Band 41 Ant A Measured *Maximum Power* for State = 1 (RCV) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.98	22.54	22.86	22.41	22.48	0	0
	1	50	23.04	22.83	23.02	22.48	22.72		0
	1	99	22.72	22.70	22.73	22.27	22.50		0
	50	0	22.01	21.55	21.93	21.37	21.66	0-1	1
	50	25	22.04	21.79	21.98	21.47	21.68		1
	50	50	21.90	21.74	21.84	21.38	21.56		1
	100	0	21.94	21.65	21.91	21.37	21.58		1
16QAM	1	0	22.14	21.74	22.06	21.62	21.69	0-1	1
	1	50	22.22	22.04	22.22	21.70	21.94		1
	1	99	21.90	21.91	21.92	21.49	21.71		1
	50	0	20.98	20.58	20.96	20.40	20.69	0-2	2
	50	25	21.02	20.78	21.01	20.50	20.75		2
	50	50	20.89	20.83	20.88	20.41	20.59		2
	100	0	20.94	20.71	20.95	20.43	20.63		2
64QAM	1	0	20.97	20.52	20.86	20.41	20.52	0-2	2
	1	50	21.03	20.82	21.03	20.50	20.74		2
	1	99	20.71	20.68	20.71	20.27	20.51		2
	50	0	20.03	19.61	20.01	19.45	19.79	0-3	3
	50	25	20.09	19.83	20.08	19.58	19.82		3
	50	50	19.94	19.88	19.92	19.49	19.68		3
	100	0	19.94	19.72	19.95	19.44	19.65		3

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Table 10-17
LTE Band 41 Ant A Measured State = 2, 3 (Hotspot, Grip) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.14	18.64	18.97	18.55	18.64	0	0
	1	50	19.23	18.96	19.15	18.64	18.89		0
	1	99	18.89	18.83	18.85	18.42	18.67		0
	50	0	19.07	18.64	19.02	18.46	18.77	0-1	0
	50	25	19.13	18.90	19.10	18.58	18.81		0
	50	50	19.00	18.83	18.95	18.52	18.68		0
16QAM	100	0	19.02	18.78	18.92	18.50	18.71	0-1	0
	1	0	19.30	18.83	19.15	18.73	18.81		0
	1	50	19.39	19.13	19.33	18.81	19.08		0
	1	99	19.05	18.98	19.03	18.60	18.86	0-2	0
	50	0	19.07	18.65	19.04	18.49	18.79		0
	50	25	19.13	18.85	19.12	18.60	18.83		0
	50	50	19.00	18.93	18.97	18.52	18.70		0
	100	0	19.03	18.78	19.06	18.52	18.76	0-2	0
	1	0	19.07	18.59	18.91	18.49	18.58		0
	1	50	19.13	18.88	19.11	18.57	18.84		0
1	99	18.80	18.73	18.79	18.34	18.62	0		
64QAM	50	0	19.10	18.70	19.09	18.53	18.84	0-3	0
	50	25	19.16	18.90	19.17	18.62	18.88		0
	50	50	19.03	18.96	19.01	18.56	18.76		0
	100	0	19.01	18.79	19.05	18.52	18.76		0

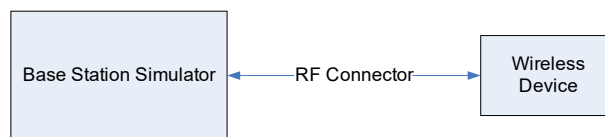


Figure 10-3
Power Measurement Setup

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10.4 WLAN Conducted Powers

Table 10-18
2.4 GHz WLAN Measured *Maximum Power Average* RF Power for Reduced (Receiver)

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	18.47
2437	6		18.75
2462	11		18.89
2467	12		5.77
2472	13		5.53
2.4GHz WIFI (20MHz 802.11g SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.33
2437	6		16.55
2462	11		16.75
2467	12		5.61
2472	13		5.39
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.24
2437	6		16.43
2462	11		15.29
2467	12		5.51
2472	13		5.18

Table 10-19
2.4 GHz WLAN Measured *Average* RF Power for Reduced (Grip, Hot-spot)

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.73
2437	6		14.92
2462	11		14.74
2467	12		5.77
2472	13		5.53

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Table 10-20
5 GHz WLAN Measured *Maximum Power Average* RF Power

5GHz WIFI (20MHz 802.11a SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	16.59
	5200	40	16.68
	5220	44	16.70
	5240	48	16.65
UNII-2A	5260	52	16.67
	5280	56	16.70
	5300	60	16.69
	5320	64	16.57
UNII-2C	5500	100	15.18
	5600	120	16.62
	5620	124	16.63
	5720	144	16.43
UNII-3	5745	149	16.47
	5785	157	16.65
	5825	165	16.67
5GHz WIFI (20MHz 802.11n SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	16.38
	5200	40	16.16
	5220	44	16.38
	5240	48	16.41
UNII-2A	5260	52	16.38
	5280	56	16.51
	5300	60	16.48
	5320	64	16.02
UNII-2C	5500	100	15.05
	5600	120	16.15
	5620	124	16.14
	5720	144	16.14
UNII-3	5745	149	16.22
	5785	157	16.31
	5825	165	16.40
5GHz WIFI (20MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	16.40
	5200	40	16.34
	5220	44	16.41
	5240	48	16.44
UNII-2A	5260	52	16.44
	5280	56	16.35
	5300	60	16.31
	5320	64	16.05
UNII-2C	5500	100	15.09
	5600	120	16.22
	5620	124	16.18
	5720	144	16.18
UNII-3	5745	149	16.28
	5785	157	16.45
	5825	165	16.44

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Table 10-21
5 GHz WLAN Measured Average RF Power for Reduced (Grip, Hot-spot)

5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.90
UNII-2A	5290	58	10.06
UNII-2C	5530	106	9.97
	5610	122	10.10
	5690	138	10.04
UNII-3	5775	155	10.36

Table 10-22
5 GHz WLAN Measured Average RF Power for Reduced (Receiver)

5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	12.96
UNII-2A	5290	58	12.06
UNII-2C	5530	106	11.61
	5610	122	13.22
	5690	138	13.19
UNII-3	5775	155	13.30

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

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

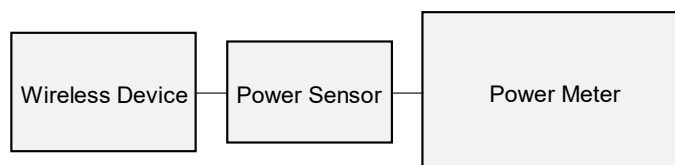


Figure 10-4
Power Measurement Setup

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10.5 Bluetooth Conducted Powers

Table 10-23
Bluetooth Measured *Maximum Power Average* RF Power

Frequency [MHz]	Data Rate	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1 Mbps	0	11.43	13.900
2441	1 Mbps	39	11.05	12.725
2480	1 Mbps	78	11.59	14.422
2402	2 Mbps	0	7.79	6.015
2441	2 Mbps	39	7.51	5.635
2480	2 Mbps	78	7.78	6.001
2402	3 Mbps	0	7.69	5.877
2441	3 Mbps	39	7.43	5.535
2480	3 Mbps	78	7.68	5.862

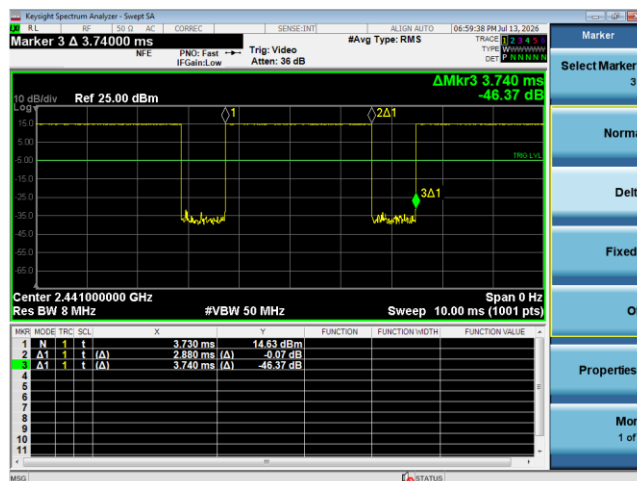


Figure 10-5
Bluetooth Transmission Plot

Equation 10-1
Bluetooth Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.74\text{ms}} * 100\% = 77.01\%$$

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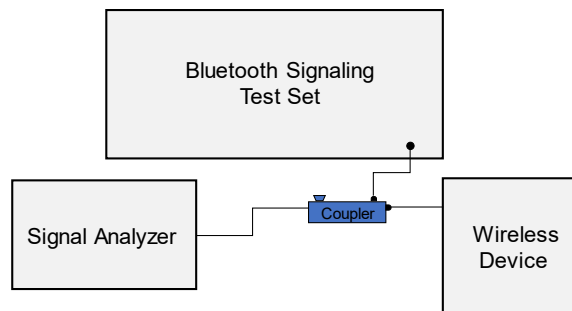


Figure 10-6
Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
07/28/2026	30 Head	20.2	12	0.769	56.838	0.750	55.000	2.53%	3.34%
			13	0.768	57.134	0.750	55.000	2.40%	3.88%
			14	0.768	57.445	0.750	55.000	2.40%	4.45%
07/08/2026	750 Head	22.4	680	0.851	41.222	0.888	42.305	-4.17%	-2.56%
			695	0.856	41.182	0.889	42.227	-3.71%	-2.47%
			700	0.857	41.168	0.889	42.201	-3.60%	-2.45%
			710	0.860	41.139	0.890	42.149	-3.37%	-2.40%
			725	0.865	41.091	0.891	42.071	-2.92%	-2.33%
			750	0.874	41.009	0.894	41.942	-2.24%	-2.22%
			770	0.881	40.949	0.895	41.838	-1.56%	-2.12%
			785	0.886	40.907	0.896	41.760	-1.12%	-2.04%
			800	0.891	40.862	0.897	41.682	-0.67%	-1.97%
			680	0.851	43.600	0.888	42.305	-4.17%	3.06%
07/13/2026	750 Head	23.5	695	0.856	43.544	0.889	42.227	-3.71%	3.12%
			700	0.857	43.527	0.889	42.201	-3.60%	3.14%
			710	0.861	43.497	0.890	42.149	-3.26%	3.20%
			725	0.865	43.465	0.891	42.071	-2.92%	3.31%
			750	0.872	43.432	0.894	41.942	-2.46%	3.55%
			770	0.878	43.393	0.895	41.838	-1.90%	3.72%
			785	0.883	43.350	0.896	41.760	-1.45%	3.81%
			800	0.889	43.298	0.897	41.682	-0.89%	3.88%
			680	0.845	44.081	0.888	42.305	-4.84%	4.20%
			695	0.850	44.042	0.889	42.227	-4.39%	4.30%
07/20/2026	750 Head	23.6	700	0.851	44.031	0.889	42.201	-4.27%	4.34%
			710	0.854	44.011	0.890	42.149	-4.04%	4.42%
			725	0.858	43.983	0.891	42.071	-3.70%	4.54%
			750	0.865	43.919	0.894	41.942	-3.24%	4.71%
			770	0.873	43.860	0.895	41.838	-2.46%	4.83%
			785	0.879	43.810	0.896	41.760	-1.90%	4.91%
			800	0.884	43.763	0.897	41.682	-1.45%	4.99%
			815	0.896	40.809	0.898	41.594	-0.22%	-1.89%
			820	0.898	40.791	0.899	41.578	-0.11%	-1.89%
			835	0.903	40.739	0.900	41.500	0.33%	-1.83%
07/08/2026	835 Head	22.4	850	0.908	40.702	0.916	41.500	-0.87%	-1.92%
			815	0.861	42.969	0.898	41.594	-4.12%	3.31%
			820	0.863	42.950	0.899	41.578	-4.00%	3.30%
07/13/2026	835 Head	22.0	835	0.867	42.897	0.900	41.500	-3.67%	3.37%
			850	0.872	42.856	0.916	41.500	-4.80%	3.27%
			815	0.862	42.321	0.898	41.594	-4.01%	1.75%
07/20/2026	835 Head	22.3	820	0.864	42.309	0.899	41.578	-3.89%	1.76%
			835	0.869	42.272	0.900	41.500	-3.44%	1.86%
			850	0.874	42.233	0.916	41.500	-4.59%	1.77%
			1700	1.293	38.422	1.343	40.145	-3.72%	-4.29%
			1705	1.295	38.415	1.345	40.141	-3.72%	-4.30%
07/06/2026	1750 Head	23.0	1710	1.297	38.406	1.348	40.136	-3.78%	-4.31%
			1720	1.302	38.388	1.354	40.126	-3.84%	-4.33%
			1745	1.314	38.348	1.368	40.087	-3.95%	-4.34%
			1750	1.317	38.342	1.371	40.079	-3.94%	-4.33%
			1770	1.326	38.326	1.383	40.047	-4.12%	-4.30%
			1790	1.336	38.307	1.394	40.016	-4.16%	-4.27%
			1700	1.280	41.741	1.343	40.145	-4.69%	3.98%
			1705	1.282	41.734	1.345	40.141	-4.68%	3.97%
			1710	1.285	41.726	1.348	40.136	-4.67%	3.96%
			1720	1.290	41.710	1.354	40.126	-4.73%	3.95%
07/09/2026	1750 Head	20.9	1745	1.303	41.669	1.368	40.087	-4.75%	3.95%
			1750	1.306	41.661	1.371	40.079	-4.74%	3.95%
			1770	1.316	41.626	1.383	40.047	-4.84%	3.94%
			1790	1.326	41.590	1.394	40.016	-4.88%	3.93%
			1700	1.309	41.207	1.343	40.145	-2.53%	2.65%
			1705	1.312	41.198	1.345	40.141	-2.45%	2.63%
			1710	1.315	41.189	1.348	40.136	-2.45%	2.62%
			1720	1.322	41.169	1.354	40.126	-2.36%	2.60%
			1745	1.337	41.118	1.368	40.087	-2.27%	2.57%
			1750	1.340	41.108	1.371	40.079	-2.26%	2.57%
07/13/2026	1750 Head	21.3	1770	1.352	41.066	1.383	40.047	-2.24%	2.54%
			1790	1.364	41.025	1.394	40.016	-2.15%	2.52%
			1700	1.280	40.892	1.343	40.145	-4.69%	1.86%
			1705	1.282	40.883	1.345	40.141	-4.68%	1.85%
			1710	1.285	40.875	1.348	40.136	-4.67%	1.84%
			1720	1.291	40.856	1.354	40.126	-4.65%	1.82%
			1745	1.305	40.815	1.368	40.087	-4.61%	1.82%
			1750	1.308	40.809	1.371	40.079	-4.60%	1.82%
			1770	1.319	40.785	1.383	40.047	-4.63%	1.84%
			1790	1.330	40.761	1.394	40.016	-4.59%	1.86%
07/31/2026	1750 Head	22.7	1700	1.280	40.892	1.343	40.145	-4.69%	1.86%
			1705	1.282	40.883	1.345	40.141	-4.68%	1.85%
			1710	1.285	40.875	1.348	40.136	-4.67%	1.84%
			1720	1.291	40.856	1.354	40.126	-4.65%	1.82%
			1745	1.305	40.815	1.368	40.087	-4.61%	1.82%
			1750	1.308	40.809	1.371	40.079	-4.60%	1.82%
			1770	1.319	40.785	1.383	40.047	-4.63%	1.84%
			1790	1.330	40.761	1.394	40.016	-4.59%	1.86%

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Table 11-2
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
07/09/2026	1900 Head	22.1	1850	1.398	40.432	1.400	40.000	-0.14%	1.08%
			1860	1.404	40.422	1.400	40.000	0.29%	1.05%
			1880	1.415	40.402	1.400	40.000	1.07%	1.01%
			1900	1.427	40.381	1.400	40.000	1.93%	0.95%
			1905	1.431	40.376	1.400	40.000	2.21%	0.94%
			1910	1.434	40.371	1.400	40.000	2.43%	0.93%
			1920	1.440	40.362	1.400	40.000	2.86%	0.91%
07/09/2026	1900 Head	20.9	1850	1.356	41.507	1.400	40.000	-3.14%	3.77%
			1860	1.361	41.497	1.400	40.000	-2.79%	3.74%
			1880	1.371	41.478	1.400	40.000	-2.07%	3.70%
			1900	1.382	41.460	1.400	40.000	-1.29%	3.65%
			1905	1.385	41.455	1.400	40.000	-1.07%	3.64%
			1910	1.388	41.450	1.400	40.000	-0.86%	3.63%
			1920	1.394	41.441	1.400	40.000	-0.43%	3.60%
07/13/2026	1900 Head	21.3	1850	1.397	40.931	1.400	40.000	-0.21%	2.33%
			1860	1.403	40.920	1.400	40.000	0.21%	2.30%
			1880	1.415	40.899	1.400	40.000	1.07%	2.25%
			1900	1.427	40.877	1.400	40.000	1.93%	2.19%
			1905	1.431	40.872	1.400	40.000	2.21%	2.18%
			1910	1.434	40.866	1.400	40.000	2.43%	2.17%
			1920	1.441	40.855	1.400	40.000	2.93%	2.14%
08/05/2026	1900 Head	22.4	1850	1.400	40.196	1.400	40.000	0.00%	0.49%
			1860	1.409	40.161	1.400	40.000	0.64%	0.40%
			1880	1.427	40.102	1.400	40.000	1.93%	0.25%
			1900	1.446	40.050	1.400	40.000	3.29%	0.12%
			1905	1.451	40.036	1.400	40.000	3.64%	0.09%
			1910	1.456	40.021	1.400	40.000	4.00%	0.05%
			1920	1.465	39.987	1.400	40.000	4.64%	-0.03%
07/06/2026	2450 Head	22.7	2300	1.752	39.901	1.670	39.500	4.91%	1.02%
			2310	1.760	39.878	1.679	39.480	4.82%	1.01%
			2320	1.767	39.852	1.687	39.460	4.74%	0.99%
			2400	1.832	39.678	1.756	39.289	4.33%	0.99%
			2450	1.869	39.538	1.800	39.200	3.83%	0.86%
			2480	1.891	39.440	1.833	39.162	3.16%	0.71%
			2500	1.906	39.395	1.855	39.136	2.75%	0.66%
			2510	1.914	39.378	1.866	39.123	2.57%	0.65%
			2535	1.933	39.336	1.893	39.092	2.11%	0.62%
			2550	1.944	39.301	1.909	39.073	1.83%	0.58%
			2560	1.951	39.271	1.920	39.060	1.61%	0.54%
			2600	1.979	39.135	1.964	39.009	0.76%	0.32%
			2650	2.018	39.037	2.018	38.945	0.00%	0.24%
			2680	2.042	38.993	2.051	38.907	-0.44%	0.22%
			2700	2.058	38.944	2.073	38.882	-0.72%	0.16%
			2300	1.648	41.119	1.670	39.500	-1.32%	4.10%
07/08/2026	2450 Head	20.6	2310	1.655	41.102	1.679	39.480	-1.43%	4.11%
			2320	1.663	41.087	1.687	39.460	-1.42%	4.12%
			2400	1.726	40.995	1.756	39.289	-1.71%	4.34%
			2450	1.770	40.933	1.800	39.200	-1.67%	4.42%
			2480	1.792	40.884	1.833	39.162	-2.24%	4.40%
			2500	1.808	40.825	1.855	39.136	-2.53%	4.32%
			2510	1.818	40.800	1.866	39.123	-2.57%	4.29%
			2535	1.842	40.766	1.893	39.092	-2.69%	4.28%
			2550	1.854	40.752	1.909	39.073	-2.88%	4.30%
			2560	1.861	40.740	1.920	39.060	-3.07%	4.30%
			2600	1.893	40.637	1.964	39.009	-3.62%	4.17%
			2650	1.938	40.567	2.018	38.945	-3.96%	4.16%
			2680	1.959	40.508	2.051	38.907	-4.49%	4.11%
			2700	1.977	40.449	2.073	38.882	-4.63%	4.03%
			2300	1.634	37.556	1.670	39.500	-2.16%	-4.92%
			2310	1.641	37.542	1.679	39.480	-2.26%	-4.91%
07/16/2026	2450 Head	21.0	2320	1.649	37.530	1.687	39.460	-2.25%	-4.89%
			2400	1.704	37.409	1.756	39.289	-2.96%	-4.79%
			2450	1.741	37.347	1.800	39.200	-3.28%	-4.73%
			2480	1.762	37.299	1.833	39.162	-3.87%	-4.76%
			2500	1.776	37.265	1.855	39.136	-4.26%	-4.78%
			2510	1.783	37.249	1.866	39.123	-4.45%	-4.79%
			2535	1.803	37.214	1.893	39.092	-4.75%	-4.80%
			2550	1.816	37.199	1.909	39.073	-4.87%	-4.80%
			2560	1.825	37.185	1.920	39.060	-4.95%	-4.80%
			2300	1.688	38.292	1.670	39.500	1.06%	-3.06%
07/20/2026	2450 Head	21.0	2310	1.696	38.270	1.679	39.480	1.01%	-3.06%
			2320	1.704	38.248	1.687	39.460	1.01%	-3.07%
			2400	1.766	38.124	1.756	39.289	0.57%	-2.97%
			2450	1.804	38.009	1.800	39.200	0.22%	-3.04%
			2480	1.829	37.964	1.833	39.162	-0.22%	-3.06%
			2500	1.843	37.942	1.855	39.136	-0.65%	-3.05%
			2510	1.850	37.926	1.866	39.123	-0.86%	-3.06%
			2535	1.869	37.870	1.893	39.092	-1.27%	-3.13%
			2550	1.882	37.835	1.909	39.073	-1.41%	-3.17%
			2560	1.891	37.811	1.920	39.060	-1.51%	-3.20%
			2600	1.924	37.752	1.964	39.009	-2.04%	-3.22%
			2650	1.962	37.638	2.018	38.945	-2.78%	-3.36%
			2680	1.987	37.581	2.051	38.907	-3.12%	-3.41%
			2700	2.002	37.571	2.073	38.882	-3.42%	-3.37%

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Table 11-3
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
07/23/2026	2450 Head	19.7	2300	1.658	39.136	1.670	39.500	-0.72%	-0.92%
			2310	1.665	39.120	1.679	39.480	-0.83%	-0.91%
			2320	1.672	39.103	1.687	39.460	-0.89%	-0.90%
			2400	1.729	38.992	1.756	39.289	-1.54%	-0.76%
			2450	1.767	38.918	1.800	39.200	-1.83%	-0.72%
			2480	1.791	38.872	1.833	39.162	-2.29%	-0.74%
			2500	1.807	38.842	1.855	39.136	-2.59%	-0.75%
			2510	1.815	38.826	1.866	39.123	-2.73%	-0.76%
			2535	1.835	38.782	1.893	39.092	-3.06%	-0.79%
			2550	1.847	38.752	1.909	39.073	-3.25%	-0.82%
			2560	1.855	38.731	1.920	39.060	-3.39%	-0.84%
			2600	1.888	38.660	1.964	39.009	-3.87%	-0.89%
			2650	1.928	38.570	2.018	38.945	-4.46%	-0.96%
			2680	1.953	38.506	2.051	38.907	-4.78%	-1.03%
			2700	1.970	38.467	2.073	38.882	-4.97%	-1.07%
07/29/2026	2450 Head	21.3	2300	1.655	41.197	1.670	39.500	-0.90%	4.30%
			2310	1.663	41.188	1.679	39.480	-0.95%	4.33%
			2320	1.671	41.178	1.687	39.460	-0.95%	4.35%
			2400	1.736	41.057	1.756	39.289	-1.14%	4.50%
			2450	1.774	40.966	1.800	39.200	-1.44%	4.51%
			2480	1.797	40.919	1.833	39.162	-1.96%	4.49%
			2500	1.812	40.887	1.855	39.136	-2.32%	4.47%
			2510	1.820	40.871	1.866	39.123	-2.47%	4.47%
			2535	1.841	40.830	1.893	39.092	-2.75%	4.45%
			2550	1.853	40.803	1.909	39.073	-2.93%	4.43%
			2560	1.861	40.784	1.920	39.060	-3.07%	4.41%
			2600	1.893	40.715	1.964	39.009	-3.62%	4.37%
			2650	1.932	40.627	2.018	38.945	-4.26%	4.32%
			2680	1.956	40.572	2.051	38.907	-4.63%	4.28%
			2700	1.972	40.540	2.073	38.882	-4.87%	4.26%
08/05/2026	5200-5800 Head	19.2	5150	4.389	36.131	4.608	36.050	-4.75%	0.22%
			5160	4.402	36.115	4.618	36.040	-4.68%	0.21%
			5170	4.412	36.102	4.629	36.030	-4.69%	0.20%
			5180	4.421	36.087	4.635	36.009	-4.62%	0.22%
			5190	4.430	36.065	4.645	35.998	-4.63%	0.19%
			5200	4.441	36.040	4.655	35.986	-4.60%	0.15%
			5210	4.453	36.017	4.666	35.975	-4.56%	0.12%
			5220	4.466	35.999	4.676	35.963	-4.49%	0.10%
			5240	4.487	35.969	4.696	35.940	-4.45%	0.08%
			5250	4.497	35.949	4.706	35.929	-4.44%	0.06%
			5260	4.508	35.927	4.717	35.917	-4.43%	0.03%
			5270	4.521	35.909	4.727	35.906	-4.36%	0.01%
			5280	4.532	35.897	4.737	35.894	-4.33%	0.01%
			5290	4.540	35.885	4.748	35.883	-4.38%	0.01%
			5300	4.548	35.865	4.758	35.871	-4.41%	-0.02%
			5310	4.559	35.839	4.768	35.860	-4.38%	-0.06%
			5320	4.572	35.816	4.778	35.849	-4.31%	-0.09%
			5500	4.762	35.510	4.963	35.643	-4.05%	-0.37%
			5510	4.772	35.497	4.973	35.632	-4.04%	-0.38%
			5520	4.781	35.484	4.983	35.620	-4.05%	-0.38%
			5530	4.792	35.462	4.994	35.609	-4.04%	-0.41%
			5540	4.806	35.434	5.004	35.597	-3.96%	-0.46%
			5550	4.819	35.408	5.014	35.586	-3.89%	-0.50%
			5560	4.832	35.391	5.024	35.574	-3.82%	-0.51%
			5580	4.855	35.362	5.045	35.551	-3.77%	-0.53%
			5600	4.878	35.329	5.065	35.529	-3.69%	-0.56%
			5610	4.889	35.313	5.076	35.518	-3.68%	-0.58%
			5620	4.898	35.298	5.086	35.506	-3.70%	-0.59%
			5640	4.915	35.258	5.106	35.483	-3.74%	-0.63%
			5660	4.941	35.213	5.127	35.460	-3.63%	-0.70%
			5670	4.953	35.198	5.137	35.449	-3.58%	-0.71%
			5680	4.964	35.183	5.147	35.437	-3.56%	-0.72%
			5690	4.975	35.165	5.158	35.426	-3.55%	-0.74%
			5700	4.987	35.148	5.168	35.414	-3.50%	-0.75%
			5710	4.999	35.133	5.178	35.403	-3.46%	-0.76%
			5720	5.010	35.119	5.188	35.391	-3.43%	-0.77%
			5745	5.032	35.080	5.214	35.363	-3.49%	-0.80%
			5750	5.036	35.068	5.219	35.357	-3.51%	-0.82%
			5755	5.041	35.055	5.224	35.351	-3.50%	-0.84%
			5765	5.054	35.030	5.234	35.340	-3.44%	-0.88%
			5775	5.067	35.011	5.245	35.329	-3.39%	-0.90%
			5785	5.078	34.997	5.255	35.317	-3.37%	-0.91%
			5795	5.088	34.983	5.265	35.305	-3.36%	-0.91%
			5800	5.094	34.974	5.270	35.300	-3.34%	-0.92%
			5800	5.094	34.974	5.270	35.300	-3.34%	-0.92%
			5805	5.100	34.965	5.275	35.294	-3.32%	-0.93%
			5825	5.126	34.936	5.296	35.271	-3.21%	-0.95%
			5835	5.136	34.926	5.305	35.230	-3.19%	-0.86%
			5845	5.144	34.914	5.315	35.210	-3.22%	-0.84%
			5850	5.148	34.906	5.320	35.200	-3.23%	-0.84%
			5855	5.151	34.896	5.325	35.197	-3.27%	-0.86%
			5865	5.160	34.871	5.336	35.190	-3.30%	-0.91%
			5865	5.160	34.871	5.336	35.190	-3.30%	-0.91%
			5865	5.160	34.871	5.336	35.190	-3.30%	-0.91%
			5875	5.172	34.845	5.347	35.183	-3.27%	-0.96%
			5885	5.185	34.825	5.357	35.177	-3.21%	-1.00%
			5905	5.207	34.798	5.379	35.163	-3.20%	-1.04%

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Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo. 		Page 50 of 76

Table 11-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
08/06/2026	5200-5800 Head	19.0	5150	4.419	36.602	4.608	36.050	-4.10%	1.53%
			5160	4.426	36.586	4.618	36.040	-4.16%	1.51%
			5170	4.448	36.581	4.629	36.030	-3.91%	1.53%
			5180	4.464	36.541	4.635	36.009	-3.69%	1.48%
			5190	4.476	36.523	4.645	35.998	-3.64%	1.46%
			5200	4.481	36.516	4.655	35.986	-3.74%	1.47%
			5210	4.485	36.525	4.666	35.975	-3.88%	1.53%
			5220	4.500	36.517	4.676	35.963	-3.76%	1.54%
			5240	4.523	36.438	4.696	35.940	-3.68%	1.39%
			5250	4.530	36.413	4.706	35.929	-3.74%	1.35%
			5260	4.538	36.394	4.717	35.917	-3.79%	1.33%
			5270	4.553	36.403	4.727	35.906	-3.68%	1.38%
			5280	4.565	36.386	4.737	35.894	-3.63%	1.37%
			5290	4.575	36.399	4.748	35.883	-3.64%	1.44%
			5300	4.591	36.374	4.758	35.871	-3.51%	1.40%
			5310	4.598	36.355	4.768	35.860	-3.57%	1.38%
			5320	4.609	36.323	4.778	35.849	-3.54%	1.32%
			5500	4.813	35.958	4.963	35.643	-3.02%	0.88%
			5510	4.816	35.930	4.973	35.632	-3.16%	0.84%
			5520	4.825	35.924	4.983	35.620	-3.17%	0.85%
			5530	4.841	35.927	4.994	35.609	-3.06%	0.89%
			5540	4.854	35.921	5.004	35.597	-3.00%	0.91%
			5550	4.870	35.873	5.014	35.586	-2.87%	0.81%
			5560	4.883	35.839	5.024	35.574	-2.81%	0.74%
			5580	4.904	35.835	5.045	35.551	-2.79%	0.80%
			5600	4.921	35.788	5.065	35.529	-2.84%	0.73%
			5610	4.933	35.779	5.076	35.518	-2.82%	0.73%
			5620	4.944	35.780	5.086	35.506	-2.79%	0.77%
			5640	4.967	35.738	5.106	35.483	-2.72%	0.72%
			5660	4.983	35.715	5.127	35.460	-2.81%	0.72%
			5670	4.996	35.705	5.137	35.449	-2.74%	0.72%
			5680	5.010	35.676	5.147	35.437	-2.66%	0.67%
			5690	5.022	35.650	5.158	35.426	-2.64%	0.63%
			5700	5.036	35.638	5.168	35.414	-2.55%	0.63%
			5710	5.052	35.625	5.178	35.403	-2.43%	0.63%
			5720	5.063	35.605	5.188	35.391	-2.41%	0.60%
			5745	5.085	35.549	5.214	35.363	-2.47%	0.53%
			5750	5.093	35.538	5.219	35.357	-2.41%	0.51%
			5755	5.103	35.533	5.224	35.351	-2.32%	0.51%
			5765	5.117	35.503	5.234	35.340	-2.24%	0.46%
			5775	5.126	35.481	5.245	35.329	-2.27%	0.43%
			5785	5.129	35.466	5.255	35.317	-2.40%	0.42%
			5795	5.138	35.447	5.265	35.305	-2.41%	0.40%
			5800	5.147	35.437	5.270	35.300	-2.33%	0.39%
			5800	5.147	35.437	5.270	35.300	-2.33%	0.39%
			5805	5.156	35.431	5.275	35.294	-2.26%	0.39%
			5825	5.179	35.429	5.296	35.271	-2.21%	0.45%
			5835	5.190	35.416	5.305	35.230	-2.17%	0.53%
			5845	5.203	35.400	5.315	35.210	-2.11%	0.54%
			5850	5.209	35.388	5.320	35.200	-2.09%	0.53%
			5855	5.213	35.377	5.325	35.197	-2.10%	0.51%
			5865	5.225	35.359	5.336	35.190	-2.08%	0.48%
			5865	5.225	35.359	5.336	35.190	-2.08%	0.48%
			5865	5.225	35.359	5.336	35.190	-2.08%	0.48%
			5865	5.225	35.359	5.336	35.190	-2.08%	0.48%
			5875	5.241	35.342	5.347	35.183	-1.98%	0.45%
			5885	5.255	35.304	5.357	35.177	-1.90%	0.36%
			5905	5.270	35.273	5.379	35.163	-2.03%	0.31%

Table 11-5
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
08/18/2026	5200-5800 Head	22.0	5150	4.486	34.846	4.608	36.050	-2.65%	-3.34%
			5160	4.494	34.833	4.618	36.040	-2.66%	-3.35%
			5170	4.506	34.813	4.629	36.030	-2.66%	-3.38%
			5180	4.517	34.800	4.635	36.009	-2.55%	-3.36%
			5190	4.528	34.783	4.645	35.998	-2.52%	-3.38%
			5200	4.542	34.765	4.655	35.986	-2.43%	-3.39%
			5210	4.555	34.750	4.666	35.975	-2.38%	-3.41%
			5220	4.565	34.739	4.676	35.963	-2.37%	-3.40%
			5240	4.572	34.707	4.696	35.940	-2.64%	-3.43%
			5250	4.580	34.692	4.706	35.929	-2.68%	-3.44%
			5260	4.590	34.680	4.717	35.917	-2.69%	-3.44%
			5270	4.601	34.661	4.727	35.906	-2.67%	-3.47%
			5280	4.613	34.644	4.737	35.894	-2.62%	-3.48%
			5290	4.627	34.625	4.748	35.883	-2.55%	-3.51%
			5300	4.639	34.618	4.758	35.871	-2.50%	-3.49%
			5310	4.647	34.610	4.768	35.860	-2.54%	-3.49%
			5320	4.654	34.597	4.778	35.849	-2.60%	-3.49%
			5500	4.821	34.333	4.963	35.643	-2.86%	-3.68%
			5510	4.827	34.324	4.973	35.632	-2.94%	-3.67%
			5520	4.834	34.307	4.983	35.620	-2.99%	-3.69%
			5530	4.843	34.294	4.994	35.609	-3.02%	-3.69%
			5540	4.852	34.281	5.004	35.597	-3.04%	-3.70%
			5550	4.861	34.263	5.014	35.586	-3.05%	-3.72%
			5560	4.874	34.242	5.024	35.574	-2.99%	-3.74%
			5580	4.899	34.221	5.045	35.551	-2.89%	-3.74%
			5600	4.916	34.203	5.065	35.529	-2.94%	-3.73%
			5610	4.925	34.188	5.076	35.518	-2.97%	-3.74%
			5620	4.934	34.175	5.086	35.506	-2.99%	-3.75%
			5640	4.949	34.142	5.106	35.483	-3.07%	-3.78%
			5660	4.972	34.093	5.127	35.460	-3.02%	-3.86%
			5670	4.986	34.086	5.137	35.449	-2.94%	-3.84%
			5680	4.999	34.086	5.147	35.437	-2.88%	-3.81%
			5690	5.009	34.076	5.158	35.426	-2.89%	-3.81%
			5700	5.016	34.063	5.168	35.414	-2.94%	-3.81%
			5710	5.022	34.049	5.178	35.403	-3.01%	-3.82%
			5720	5.030	34.038	5.188	35.391	-3.05%	-3.82%
			5745	5.050	33.985	5.214	35.363	-3.15%	-3.90%
			5750	5.056	33.973	5.219	35.357	-3.12%	-3.91%
			5755	5.062	33.963	5.224	35.351	-3.10%	-3.93%
			5765	5.078	33.946	5.234	35.340	-2.98%	-3.94%
			5775	5.091	33.940	5.245	35.329	-2.94%	-3.93%
			5785	5.101	33.934	5.255	35.317	-2.93%	-3.92%
			5795	5.109	33.928	5.265	35.305	-2.96%	-3.90%
			5800	5.113	33.924	5.270	35.300	-2.98%	-3.90%
			5800	5.113	33.924	5.270	35.300	-2.98%	-3.90%
			5805	5.116	33.919	5.275	35.294	-3.01%	-3.90%
			5825	5.131	33.886	5.296	35.271	-3.12%	-3.93%
			5835	5.138	33.869	5.305	35.230	-3.15%	-3.86%
			5845	5.146	33.846	5.315	35.210	-3.18%	-3.87%
			5850	5.151	33.839	5.320	35.200	-3.18%	-3.87%
			5855	5.158	33.826	5.325	35.197	-3.14%	-3.90%
			5865	5.172	33.810	5.336	35.190	-3.07%	-3.92%
			5865	5.172	33.810	5.336	35.190	-3.07%	-3.92%
			5865	5.172	33.810	5.336	35.190	-3.07%	-3.92%
			5865	5.172	33.810	5.336	35.190	-3.07%	-3.92%
			5875	5.186	33.802	5.347	35.183	-3.01%	-3.93%
			5885	5.196	33.804	5.357	35.177	-3.01%	-3.90%
			5905	5.208	33.803	5.379	35.163	-3.18%	-3.87%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2. The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo. 		Page 52 of 76

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11.2 SAR 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 SAR System Validation Appendix.

Table 11-6
System Verification Results – Head

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (°C)	Liquid Temp. (°C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm² APD (W/m²)	1W Target 4cm² APD (W/m²)	1W Normalized 4cm² APD (W/m²)	Deviation 4cm² (%)
G	13	Head	07/28/2026	22.2	20.2	1.00	1002	7570	859	0.50	0.50	0.50	-0.40%	0.31	0.32	0.31	-1.27%	N/A	N/A	N/A	N/A
S1	750	Head	07/08/2026	22.0	22.4	0.20	1003	7546	1368	1.74	8.44	8.70	3.08%	1.17	5.53	5.85	5.79%	N/A	N/A	N/A	N/A
S6	750	Head	07/13/2026	21.8	23.5	0.20	1046	7803	1583	1.68	8.60	8.40	-2.33%	1.14	5.61	5.70	1.60%	N/A	N/A	N/A	N/A
S6	750	Head	07/20/2026	21.5	23.6	0.20	1003	7803	1583	1.75	8.44	8.75	3.67%	1.18	5.53	5.90	6.69%	N/A	N/A	N/A	N/A
S1	835	Head	07/08/2026	22.0	22.4	0.20	4d119	7546	1368	2.01	9.67	10.05	3.93%	1.34	6.37	6.70	5.18%	N/A	N/A	N/A	N/A
S1	835	Head	07/13/2026	21.9	22.0	0.20	4d119	7546	1368	1.96	9.67	9.80	1.34%	1.31	6.37	6.55	2.83%	N/A	N/A	N/A	N/A
S1	835	Head	07/20/2026	22.0	22.3	0.20	4d119	7546	1368	1.82	9.67	9.10	-5.89%	1.22	6.37	6.10	-4.24%	N/A	N/A	N/A	N/A
S6	1750	Head	07/06/2026	20.5	23.0	0.10	1051	7803	1583	3.48	36.90	34.80	-5.69%	1.89	19.70	18.90	-4.06%	N/A	N/A	N/A	N/A
S7	1750	Head	07/09/2026	21.3	20.9	0.10	1092	7402	1502	3.58	36.70	35.80	-2.45%	1.97	19.50	19.70	1.03%	N/A	N/A	N/A	N/A
S7	1750	Head	07/13/2026	21.5	21.3	0.10	1051	7402	1502	3.72	36.90	37.20	0.81%	2.02	19.70	20.20	2.54%	N/A	N/A	N/A	N/A
S7	1750	Head	07/31/2026	21.3	22.7	0.10	1051	7402	1502	3.55	36.90	35.50	-3.79%	1.94	19.70	19.40	-1.52%	N/A	N/A	N/A	N/A
S7	1900	Head	07/09/2026	21.3	20.9	0.10	5d026	7402	1502	3.81	40.60	38.10	-6.16%	2.04	21.40	20.40	-4.67%	N/A	N/A	N/A	N/A
S6	1900	Head	07/09/2026	21.9	22.1	0.10	5d141	7803	1583	4.12	40.60	41.20	1.48%	2.16	21.50	21.60	0.47%	N/A	N/A	N/A	N/A
S7	1900	Head	07/13/2026	21.5	21.3	0.10	5d141	7402	1502	4.32	40.60	43.20	6.40%	2.28	21.50	22.80	6.05%	N/A	N/A	N/A	N/A
S7	1900	Head	08/05/2026	22.1	22.4	0.10	5d141	7402	1502	4.27	40.60	42.70	5.17%	2.21	21.50	22.10	2.79%	N/A	N/A	N/A	N/A
S7	2450	Head	07/06/2026	22.2	22.7	0.10	882	7402	1502	4.96	51.40	49.60	-3.50%	2.33	24.00	23.30	-2.92%	N/A	N/A	N/A	N/A
S7	2450	Head	07/08/2026	21.4	20.6	0.10	882	7402	1502	5.04	51.40	50.40	-1.95%	2.40	24.00	24.00	0.00%	N/A	N/A	N/A	N/A
L	2450	Head	07/16/2026	21.1	21.0	0.10	719	7539	1450	5.55	52.20	55.50	6.32%	2.61	24.60	26.10	6.10%	N/A	N/A	N/A	N/A
L	2450	Head	07/20/2026	21.8	21.0	0.10	719	7539	1450	5.72	52.20	57.20	9.58%	2.70	24.60	27.00	9.76%	N/A	N/A	N/A	N/A
S7	2450	Head	07/23/2026	19.9	19.7	0.10	882	7402	1502	5.44	51.40	54.40	5.84%	2.59	24.00	25.90	7.92%	N/A	N/A	N/A	N/A
S7	2450	Head	07/29/2026	21.4	21.3	0.10	882	7402	1502	5.14	51.40	51.40	0.00%	2.45	24.00	24.50	2.08%	N/A	N/A	N/A	N/A
S7	2600	Head	07/06/2026	22.2	22.7	0.10	1009	7402	1502	5.41	56.50	54.10	-4.25%	2.46	25.50	24.60	-3.53%	N/A	N/A	N/A	N/A
S7	2600	Head	07/08/2026	21.4	20.6	0.10	1126	7402	1502	5.19	55.30	51.90	-6.15%	2.40	24.80	24.00	-3.23%	N/A	N/A	N/A	N/A
S1	5250	Head	08/05/2026	21.5	19.2	0.05	1237	7546	1368	4.24	80.90	84.80	4.82%	1.23	23.20	24.60	6.03%	N/A	N/A	N/A	N/A
O	5250	Head	08/06/2026	22.2	20.6	0.05	1191	7488	1415	3.71	78.40	74.20	-5.36%	1.07	22.50	21.40	-4.89%	N/A	N/A	N/A	N/A
S8	5250	Head	08/18/2026	21.8	22.0	0.05	1237	7637	1652	3.82	80.90	76.40	-5.56%	1.09	23.20	21.80	-6.03%	N/A	N/A	N/A	N/A
S1	5600	Head	08/05/2026	21.5	19.2	0.05	1237	7546	1368	4.28	81.40	85.60	5.16%	1.22	23.40	24.40	4.27%	N/A	N/A	N/A	N/A
O	5600	Head	08/06/2026	22.2	20.6	0.05	1191	7488	1415	3.82	77.50	76.40	-1.42%	1.09	22.30	21.80	-2.24%	N/A	N/A	N/A	N/A
S8	5600	Head	08/18/2026	21.8	22.0	0.05	1237	7637	1652	4.19	81.40	83.80	2.95%	1.19	23.40	23.80	1.71%	N/A	N/A	N/A	N/A
S1	5750	Head	08/05/2026	21.5	19.2	0.05	1237	7546	1368	4.13	78.80	82.60	4.82%	1.19	22.50	23.80	5.78%	N/A	N/A	N/A	N/A
O	5750	Head	08/06/2026	22.2	20.6	0.05	1191	7488	1415	3.65	75.40	73.00	-3.18%	1.04	21.50	20.80	-3.26%	N/A	N/A	N/A	N/A
S8	5750	Head	08/18/2026	21.8	22.0	0.05	1237	7637	1652	4.03	78.80	80.60	2.28%	1.15	22.50	23.00	2.22%	N/A	N/A	N/A	N/A

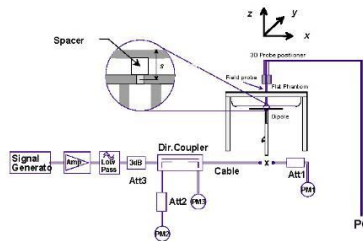


Figure 11-1
System Verification Setup Diagram



Figure 11-2
System Verification Setup Photo

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12 SAR DATA SUMMARY

12.1 GSM 850 Standalone SAR

Table 12-1 | Plot A1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	GSM 850	GSM	A	0158M	1:8.3	-0.10	824.20	128	34.0	33.05	Right Cheek	0	0.199	1.245	0.248	Plot
Head	GSM 850	GSM	A	0158M	1:8.3	0.19	824.20	128	34.0	33.05	Right Tilt	0	0.108	1.245	0.134	
Head	GSM 850	GSM	A	0158M	1:8.3	0.01	824.20	128	34.0	33.05	Left Cheek	0	0.174	1.245	0.217	
Head	GSM 850	GSM	A	0158M	1:8.3	0.16	824.20	128	34.0	33.05	Left Tilt	0	0.113	1.245	0.141	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-2 | Plot A2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.02	824.20	128	29.0	27.77	Back	5	0.867	1.327	1.151	
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	0.09	836.60	190	29.0	27.66	Back	5	0.858	1.361	1.168	
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.02	848.80	251	29.0	27.68	Back	5	0.884	1.355	1.198	Plot
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.01	824.20	128	29.0	27.77	Front	5	0.410	1.327	0.544	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.03	824.20	128	29.0	27.77	Bottom	5	0.577	1.327	0.766	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.03	824.20	128	29.0	27.77	Right	5	0.385	1.327	0.511	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.08	824.20	128	29.0	27.77	Left	5	0.191	1.327	0.253	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.11	824.20	128	30.0	28.98	Back	17	0.317	1.265	0.401	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.11	824.20	128	30.0	28.98	Back	17	0.243	1.265	0.307	
Phablet	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.03	824.20	128	30.0	28.98	Front	0	0.749	1.265	0.947	
Phablet	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	0.10	824.20	128	30.0	28.98	Bottom	14	0.105	1.265	0.133	
Phablet	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.04	824.20	128	30.0	28.98	Right	0	0.816	1.265	1.032	
Phablet	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	0.00	824.20	128	30.0	28.98	Left	0	0.153	1.265	0.194	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams				

Table 12-5 | Plot A3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	0.01	824.20	128	29.0	27.77	Back	0	0.886	1.327	1.176	Plot
Phablet	GPRS 850	GPRS 4 Tx Slots	A	0158M	1:2.076	-0.06	824.20	128	29.0	27.77	Bottom	0	0.753	1.327	0.999	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams				

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12.2 GSM 1900 Standalone SAR

Table 12-6 | Plot A4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	GSM 1900	GSM	A	0128M	1:8.3	-0.02	1850.20	512	31.0	29.99	Right Cheek	0	0.070	1.262	0.088	Plot
Head	GSM 1900	GSM	A	0128M	1:8.3	0.15	1850.20	512	31.0	29.99	Right Tilt	0	0.048	1.262	0.061	
Head	GSM 1900	GSM	A	0128M	1:8.3	0.06	1850.20	512	31.0	29.99	Left Cheek	0	0.054	1.262	0.068	
Head	GSM 1900	GSM	A	0128M	1:8.3	0.09	1850.20	512	31.0	29.99	Left Tilt	0	0.069	1.262	0.087	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-7 | Plot A5, A6

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	-0.01	1909.80	810	23.0	21.23	Back	5	0.413	1.503	0.621	Plot
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	-0.03	1909.80	810	23.0	21.23	Front	5	0.236	1.503	0.355	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	0.02	1909.80	810	23.0	21.23	Bottom	5	0.423	1.503	0.636	Plot
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	0.12	1909.80	810	23.0	21.23	Right	5	0.037	1.503	0.056	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	0.05	1909.80	810	23.0	21.23	Left	5	0.140	1.503	0.210	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-8

Exposure	Band / Mode	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	GPRS 1900	GPRS 4 Tx Slots	A	N/A	0128M	1:2.076	-0.03	1880.00	661	27.0	25.20	Back	17	0.188	1.514	0.285	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-9 | Plot A7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	-0.03	1880.00	661	27.0	25.20	Back	17	0.115	1.514	0.174	
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	0.04	1880.00	661	27.0	25.20	Front	0	1.010	1.514	1.529	Plot
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	0.00	1880.00	661	27.0	25.20	Bottom	14	0.184	1.514	0.279	
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	-0.04	1880.00	661	27.0	25.20	Right	0	0.151	1.514	0.229	
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	0.04	1880.00	661	27.0	25.20	Left	0	0.681	1.514	1.031	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

Table 12-10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	-0.04	1909.80	810	23.0	21.23	Back	0	0.843	1.503	1.267	
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	0128M	1:2.076	-0.01	1909.80	810	23.0	21.23	Bottom	0	0.582	1.503	0.875	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

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12.3 UMTS 850 Standalone SAR

Table 12-11 | Plot A8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	UMTS 850	QPSK	A	0158M	1:1	0.01	846.60	4233	25.5	24.30	Right Cheek	0	0.268	1.318	0.353	Plot
Head	UMTS 850	QPSK	A	0158M	1:1	-0.02	846.60	4233	25.5	24.30	Right Tilt	0	0.124	1.318	0.163	
Head	UMTS 850	QPSK	A	0158M	1:1	-0.05	846.60	4233	25.5	24.30	Left Cheek	0	0.226	1.318	0.298	
Head	UMTS 850	QPSK	A	0158M	1:1	-0.17	846.60	4233	25.5	24.30	Left Tilt	0	0.120	1.318	0.158	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-12 | Plot A9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	UMTS 850	QPSK	A	0158M	1:1	-0.03	826.40	4132	24.5	23.40	Back	5	0.830	1.288	1.069	
Body-worn/Hotspot	UMTS 850	QPSK	A	0158M	1:1	-0.01	836.60	4183	24.5	23.34	Back	5	0.845	1.306	1.104	
Body-worn/Hotspot	UMTS 850	QPSK	A	0158M	1:1	-0.02	846.60	4233	24.5	23.42	Back	5	0.921	1.282	1.181	Plot
Body-worn/Hotspot	UMTS 850	QPSK	A	0158M	1:1	0.00	846.60	4233	24.5	23.42	Back	5	0.897	1.282	1.150	
Hotspot	UMTS 850	QPSK	A	0158M	1:1	0.00	846.60	4233	24.5	23.42	Front	5	0.426	1.282	0.546	
Hotspot	UMTS 850	QPSK	A	0158M	1:1	-0.04	846.60	4233	24.5	23.42	Bottom	5	0.531	1.282	0.681	
Hotspot	UMTS 850	QPSK	A	0158M	1:1	-0.08	846.60	4233	24.5	23.42	Right	5	0.243	1.282	0.312	
Hotspot	UMTS 850	QPSK	A	0158M	1:1	-0.01	846.60	4233	24.5	23.42	Left	5	0.141	1.282	0.181	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram					

Note: Blue entry represents variability measurement

Table 12-13

Exposure	Band / Mode	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	UMTS 850	QPSK	A	N/A	0158M	1:1	-0.01	846.60	4233	25.5	24.30	Back	17	0.219	1.318	0.289	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-14

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	UMTS 850	QPSK	A	0158M	1:1	-0.01	846.60	4233	25.5	24.30	Back	17	0.168	1.318	0.221	
Phablet	UMTS 850	QPSK	A	0158M	1:1	-0.01	846.60	4233	25.5	24.30	Front	0	0.646	1.318	0.851	
Phablet	UMTS 850	QPSK	A	0158M	1:1	-0.04	846.60	4233	25.5	24.30	Bottom	14	0.104	1.318	0.137	
Phablet	UMTS 850	QPSK	A	0158M	1:1	0.02	846.60	4233	25.5	24.30	Right	0	0.811	1.318	1.069	
Phablet	UMTS 850	QPSK	A	0158M	1:1	-0.11	846.60	4233	25.5	24.30	Left	0	0.110	1.318	0.145	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

Table 12-15 | Plot A10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	UMTS 850	QPSK	A	0158M	1:1	0.02	846.60	4233	24.5	23.42	Back	0	1.010	1.282	1.295	Plot
Phablet	UMTS 850	QPSK	A	0158M	1:1	-0.07	846.60	4233	24.5	23.42	Bottom	0	0.873	1.282	1.119	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

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12.4 UMTS 1750 Standalone SAR

Table 12-16 | Plot A11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	UMTS 1750	QPSK	A	0128M	1:1	0.00	1712.40	1312	24.0	22.77	Right Cheek	0	0.157	1.327	0.208	Plot
Head	UMTS 1750	QPSK	A	0128M	1:1	-0.05	1712.40	1312	24.0	22.77	Right Tilt	0	0.130	1.327	0.173	
Head	UMTS 1750	QPSK	A	0128M	1:1	-0.02	1712.40	1312	24.0	22.77	Left Cheek	0	0.144	1.327	0.191	
Head	UMTS 1750	QPSK	A	0128M	1:1	0.12	1712.40	1312	24.0	22.77	Left Tilt	0	0.155	1.327	0.206	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-17 | Plot A12

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	UMTS 1750	QPSK	A	0128M	1:1	0.00	1712.40	1312	21.0	19.82	Back	5	0.589	1.312	0.773	Plot
Hotspot	UMTS 1750	QPSK	A	0128M	1:1	0.00	1712.40	1312	21.0	19.82	Front	5	0.347	1.312	0.455	
Hotspot	UMTS 1750	QPSK	A	0128M	1:1	-0.03	1712.40	1312	21.0	19.82	Bottom	5	0.510	1.312	0.669	
Hotspot	UMTS 1750	QPSK	A	0128M	1:1	-0.06	1712.40	1312	21.0	19.82	Right	5	0.111	1.312	0.146	
Hotspot	UMTS 1750	QPSK	A	0128M	1:1	-0.04	1712.40	1312	21.0	19.82	Left	5	0.247	1.312	0.324	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-18

Exposure	Band / Mode	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	UMTS 1750	QPSK	A	N/A	0128M	1:1	-0.03	1712.40	1312	25.0	23.82	Back	17	0.268	1.312	0.352	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-19 | Plot A13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	UMTS 1750	QPSK	A	0128M	1:1	-0.03	1712.40	1312	25.0	23.82	Back	17	0.182	1.312	0.239	
Phablet	UMTS 1750	QPSK	A	0128M	1:1	0.02	1712.40	1312	25.0	23.82	Front	0	1.710	1.312	2.244	
Phablet	UMTS 1750	QPSK	A	0128M	1:1	0.00	1732.40	1412	25.0	23.51	Front	0	1.710	1.409	2.409	
Phablet	UMTS 1750	QPSK	A	0128M	1:1	0.00	1752.60	1513	25.0	23.42	Front	0	1.730	1.439	2.489	Plot
Phablet	UMTS 1750	QPSK	A	0128M	1:1	0.01	1712.40	1312	25.0	23.82	Bottom	14	0.186	1.312	0.244	
Phablet	UMTS 1750	QPSK	A	0128M	1:1	0.00	1712.40	1312	25.0	23.82	Right	0	0.197	1.312	0.258	
Phablet	UMTS 1750	QPSK	A	0128M	1:1	0.00	1712.40	1312	25.0	23.82	Left	0	0.992	1.312	1.302	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

Table 12-20

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	UMTS 1750	QPSK	A	0128M	1:1	-0.02	1712.40	1312	21.0	19.82	Back	0	1.130	1.312	1.483	
Phablet	UMTS 1750	QPSK	A	0128M	1:1	0.01	1712.40	1312	21.0	19.82	Bottom	0	0.891	1.312	1.169	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

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Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		 Page 57 of 76

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12.5 UMTS 1900 Standalone SAR

Table 12-21 | Plot A14

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	UMTS 1900	QPSK	A	0128M	1:1	-0.03	1852.40	9262	24.0	22.52	Right Cheek	0	0.088	1.406	0.124	
Head	UMTS 1900	QPSK	A	0128M	1:1	0.00	1852.40	9262	24.0	22.52	Right Tilt	0	0.078	1.406	0.110	
Head	UMTS 1900	QPSK	A	0128M	1:1	-0.06	1852.40	9262	24.0	22.52	Left Cheek	0	0.120	1.406	0.169	Plot
Head	UMTS 1900	QPSK	A	0128M	1:1	0.08	1852.40	9262	24.0	22.52	Left Tilt	0	0.115	1.406	0.162	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-22 | Plot A15

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	UMTS 1900	QPSK	A	0128M	1:1	-0.05	1852.40	9262	21.0	19.57	Back	5	0.433	1.390	0.602	Plot
Hotspot	UMTS 1900	QPSK	A	0128M	1:1	0.00	1852.40	9262	21.0	19.57	Front	5	0.236	1.390	0.328	
Hotspot	UMTS 1900	QPSK	A	0128M	1:1	-0.02	1852.40	9262	21.0	19.57	Bottom	5	0.375	1.390	0.521	
Hotspot	UMTS 1900	QPSK	A	0128M	1:1	-0.08	1852.40	9262	21.0	19.57	Right	5	0.036	1.390	0.050	
Hotspot	UMTS 1900	QPSK	A	0128M	1:1	0.03	1852.40	9262	21.0	19.57	Left	5	0.181	1.390	0.252	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-23

Exposure	Band / Mode	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	UMTS 1900	QPSK	A	N/A	0128M	1:1	-0.01	1852.40	9262	25.0	23.52	Back	17	0.188	1.406	0.264	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-24 | Plot A16

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	UMTS 1900	QPSK	A	0128M	1:1	-0.01	1852.40	9262	25.0	23.52	Back	17	0.114	1.406	0.160	
Phablet	UMTS 1900	QPSK	A	0128M	1:1	0.00	1852.40	9262	25.0	23.52	Front	0	1.020	1.406	1.434	Plot
Phablet	UMTS 1900	QPSK	A	0128M	1:1	0.01	1852.40	9262	25.0	23.52	Bottom	14	0.141	1.406	0.198	
Phablet	UMTS 1900	QPSK	A	0128M	1:1	-0.04	1852.40	9262	25.0	23.52	Right	0	0.092	1.406	0.129	
Phablet	UMTS 1900	QPSK	A	0128M	1:1	0.00	1852.40	9262	25.0	23.52	Left	0	0.747	1.406	1.050	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

Table 12-25

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	UMTS 1900	QPSK	A	0128M	1:1	0.00	1852.40	9262	21.0	19.57	Back	0	0.912	1.390	1.268	
Phablet	UMTS 1900	QPSK	A	0128M	1:1	-0.01	1852.40	9262	21.0	19.57	Bottom	0	0.514	1.390	0.714	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

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12.6 LTE Band 12 Standalone SAR

Table 12-26 | Plot A17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	LTE Band 12	10	QPSK	A	0121M	1:1	-0.01	707.50	23095	0.0	25.0	24.62	1	25	Right Cheek	0	0.165	1.091	0.180	Plot
Head	LTE Band 12	10	QPSK	A	0121M	1:1	0.00	707.50	23095	1.0	24.0	23.64	25	12	Right Cheek	0	0.131	1.086	0.142	
Head	LTE Band 12	10	QPSK	A	0121M	1:1	-0.05	707.50	23095	0.0	25.0	24.62	1	25	Right Tilt	0	0.087	1.091	0.095	
Head	LTE Band 12	10	QPSK	A	0121M	1:1	-0.03	707.50	23095	1.0	24.0	23.64	25	12	Right Tilt	0	0.069	1.086	0.075	
Head	LTE Band 12	10	QPSK	A	0121M	1:1	0.00	707.50	23095	0.0	25.0	24.62	1	25	Left Cheek	0	0.147	1.091	0.160	
Head	LTE Band 12	10	QPSK	A	0121M	1:1	0.01	707.50	23095	1.0	24.0	23.64	25	12	Left Cheek	0	0.117	1.086	0.127	
Head	LTE Band 12	10	QPSK	A	0121M	1:1	-0.10	707.50	23095	0.0	25.0	24.62	1	25	Left Tilt	0	0.062	1.091	0.068	
Head	LTE Band 12	10	QPSK	A	0121M	1:1	0.04	707.50	23095	1.0	24.0	23.64	25	12	Left Tilt	0	0.050	1.086	0.054	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-27 | Plot A18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	0.00	707.50	23095	0.0	24.0	23.04	1	25	Back	5	0.526	1.247	0.656	Plot
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	-0.04	707.50	23095	0.0	24.0	22.98	25	12	Back	5	0.524	1.265	0.663	
Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	-0.03	707.50	23095	0.0	24.0	23.04	1	25	Front	5	0.226	1.247	0.282	
Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	0.01	707.50	23095	0.0	24.0	22.98	25	12	Front	5	0.228	1.265	0.288	
Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	0.01	707.50	23095	0.0	24.0	23.04	1	25	Bottom	5	0.299	1.247	0.373	
Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	-0.01	707.50	23095	0.0	24.0	22.98	25	12	Bottom	5	0.304	1.265	0.385	
Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	0.06	707.50	23095	0.0	24.0	23.04	1	25	Right	5	0.361	1.247	0.450	
Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	-0.02	707.50	23095	0.0	24.0	22.98	25	12	Right	5	0.355	1.265	0.449	
Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	0.09	707.50	23095	0.0	24.0	23.04	1	25	Left	5	0.196	1.247	0.244	
Hotspot	LTE Band 12	10	QPSK	A	0158M	1:1	-0.02	707.50	23095	0.0	24.0	22.98	25	12	Left	5	0.195	1.265	0.247	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	LTE Band 12	10	QPSK	A	N/A	0121M	1:1	0.00	707.50	23095	0.0	25.0	24.62	1	25	Back	17	0.234	1.091	0.255	
Body-worn	LTE Band 12	10	QPSK	A	N/A	0121M	1:1	-0.01	707.50	23095	1.0	24.0	23.64	25	12	Back	17	0.184	1.086	0.200	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak																	Body				
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	0.00	707.50	23095	0.0	25.0	24.62	1	25	Back	17	0.184	1.091	0.201	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.01	707.50	23095	1.0	24.0	23.64	25	12	Back	17	0.144	1.086	0.156	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.02	707.50	23095	0.0	25.0	24.62	1	25	Front	0	0.421	1.091	0.459	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.01	707.50	23095	1.0	24.0	23.64	25	12	Front	0	0.333	1.086	0.362	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.02	707.50	23095	0.0	25.0	24.62	1	25	Bottom	14	0.053	1.091	0.058	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.03	707.50	23095	1.0	24.0	23.64	25	12	Bottom	14	0.041	1.086	0.045	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.04	707.50	23095	0.0	25.0	24.62	1	25	Right	0	0.439	1.091	0.479	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	0.04	707.50	23095	1.0	24.0	23.64	25	12	Right	0	0.346	1.086	0.376	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.06	707.50	23095	0.0	25.0	24.62	1	25	Left	0	0.099	1.091	0.108	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	0.02	707.50	23095	1.0	24.0	23.64	25	12	Left	0	0.077	1.086	0.084	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

Table 12-30 | Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.01	707.50	23095	0.0	24.0	23.04	1	25	Back	0	0.669	1.247	0.834	Plot
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.02	707.50	23095	0.0	24.0	22.98	25	12	Back	0	0.662	1.265	0.837	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	0.00	707.50	23095	0.0	24.0	23.04	1	25	Bottom	0	0.536	1.247	0.668	
Phablet	LTE Band 12	10	QPSK	A	0121M	1:1	-0.02	707.50	23095	0.0	24.0	22.98	25	12	Bottom	0	0.505	1.265	0.639	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

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12.7 LTE Band 13 Standalone SAR

Table 12-31 | Plot A20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	LTE Band 13	10	QPSK	A	0121M	1:1	-0.01	782.00	23230	0.0	25.0	24.29	1	25	Right Cheek	0	0.142	1.178	0.167	
Head	LTE Band 13	10	QPSK	A	0121M	1:1	-0.03	782.00	23230	1.0	24.0	23.25	25	12	Right Cheek	0	0.111	1.189	0.132	
Head	LTE Band 13	10	QPSK	A	0121M	1:1	-0.10	782.00	23230	0.0	25.0	24.29	1	25	Right Tilt	0	0.076	1.178	0.090	
Head	LTE Band 13	10	QPSK	A	0121M	1:1	-0.11	782.00	23230	1.0	24.0	23.25	25	12	Right Tilt	0	0.062	1.189	0.074	
Head	LTE Band 13	10	QPSK	A	0121M	1:1	0.00	782.00	23230	0.0	25.0	24.29	1	25	Left Cheek	0	0.157	1.178	0.185	Plot
Head	LTE Band 13	10	QPSK	A	0121M	1:1	0.00	782.00	23230	1.0	24.0	23.25	25	12	Left Cheek	0	0.124	1.189	0.147	
Head	LTE Band 13	10	QPSK	A	0121M	1:1	-0.09	782.00	23230	0.0	25.0	24.29	1	25	Left Tilt	0	0.077	1.178	0.091	
Head	LTE Band 13	10	QPSK	A	0121M	1:1	-0.04	782.00	23230	1.0	24.0	23.25	25	12	Left Tilt	0	0.060	1.189	0.071	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-32 | Plot A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	-0.03	782.00	23230	0.0	24.0	23.13	1	25	Back	5	0.446	1.222	0.545	Plot
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	-0.03	782.00	23230	0.0	24.0	23.10	25	12	Back	5	0.438	1.230	0.539	
Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	-0.07	782.00	23230	0.0	24.0	23.13	1	25	Front	5	0.190	1.222	0.232	
Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	-0.02	782.00	23230	0.0	24.0	23.10	25	12	Front	5	0.187	1.230	0.230	
Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	0.00	782.00	23230	0.0	24.0	23.13	1	25	Bottom	5	0.195	1.222	0.238	
Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	0.07	782.00	23230	0.0	24.0	23.10	25	12	Bottom	5	0.195	1.230	0.240	
Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	0.00	782.00	23230	0.0	24.0	23.13	1	25	Right	5	0.237	1.222	0.290	
Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	-0.01	782.00	23230	0.0	24.0	23.10	25	12	Right	5	0.235	1.230	0.289	
Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	-0.04	782.00	23230	0.0	24.0	23.13	1	25	Left	5	0.196	1.222	0.166	
Hotspot	LTE Band 13	10	QPSK	A	0121M	1:1	0.00	782.00	23230	0.0	24.0	23.10	25	12	Left	5	0.194	1.230	0.165	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	LTE Band 13	10	QPSK	A	N/A	0121M	1:1	-0.01	782.00	23230	0.0	25.0	24.29	1	25	Back	17	0.175	1.178	0.206	
Body-worn	LTE Band 13	10	QPSK	A	N/A	0121M	1:1	-0.01	782.00	23230	1.0	24.0	23.25	25	12	Back	17	0.139	1.189	0.165	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak																	Body				
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	-0.01	782.00	23230	0.0	25.0	24.29	1	25	Back	17	0.127	1.178	0.161	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	-0.03	782.00	23230	1.0	24.0	23.25	25	12	Back	17	0.108	1.189	0.128	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	-0.01	782.00	23230	0.0	25.0	24.29	1	25	Front	0	0.523	1.178	0.616	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.06	782.00	23230	1.0	24.0	23.25	25	12	Front	0	0.409	1.189	0.486	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.02	782.00	23230	0.0	25.0	24.29	1	25	Bottom	14	0.028	1.178	0.033	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.02	782.00	23230	1.0	24.0	23.25	25	12	Bottom	14	0.023	1.189	0.027	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.00	782.00	23230	0.0	25.0	24.29	1	25	Right	0	0.582	1.178	0.686	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	-0.03	782.00	23230	1.0	24.0	23.25	25	12	Right	0	0.500	1.189	0.595	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.01	782.00	23230	0.0	25.0	24.29	1	25	Left	0	0.093	1.178	0.110	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	-0.02	782.00	23230	1.0	24.0	23.25	25	12	Left	0	0.073	1.189	0.087	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

Table 12-35 | Plot A22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.01	782.00	23230	0.0	24.0	23.13	1	25	Back	0	1.040	1.222	1.271	Plot
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.02	782.00	23230	0.0	24.0	23.10	25	12	Back	0	1.030	1.230	1.267	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.04	782.00	23230	0.0	24.0	23.13	1	25	Bottom	0	0.673	1.222	0.822	
Phablet	LTE Band 13	10	QPSK	A	0121M	1:1	0.02	782.00	23230	0.0	24.0	23.10	25	12	Bottom	0	0.657	1.230	0.808	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

FCC ID: A3LSMA185G	RF EXPOSURE TEST REPORT																Approved by: Technical Manager			
Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.															Page 60 of 76			

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12.8 LTE Band 26 (Cell) Standalone SAR

Table 12-36 | Plot A23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	0.0	25.0	24.32	1	36	Right Cheek	0	0.207	1.169	0.242	Plot
Head	LTE Band 26	15	QPSK	A	0158M	1:1	-0.04	831.50	26865	1.0	24.0	23.34	36	18	Right Cheek	0	0.162	1.164	0.189	
Head	LTE Band 26	15	QPSK	A	0158M	1:1	0.03	831.50	26865	0.0	25.0	24.32	1	36	Right Tilt	0	0.094	1.169	0.110	
Head	LTE Band 26	15	QPSK	A	0158M	1:1	-0.04	831.50	26865	1.0	24.0	23.34	36	18	Right Tilt	0	0.077	1.164	0.090	
Head	LTE Band 26	15	QPSK	A	0158M	1:1	0.00	831.50	26865	0.0	25.0	24.32	1	36	Left Cheek	0	0.178	1.169	0.208	
Head	LTE Band 26	15	QPSK	A	0158M	1:1	0.00	831.50	26865	1.0	24.0	23.34	36	18	Left Cheek	0	0.138	1.164	0.161	
Head	LTE Band 26	15	QPSK	A	0158M	1:1	0.02	831.50	26865	0.0	25.0	24.32	1	36	Left Tilt	0	0.099	1.169	0.116	
Head	LTE Band 26	15	QPSK	A	0158M	1:1	0.00	831.50	26865	1.0	24.0	23.34	36	18	Left Tilt	0	0.078	1.164	0.091	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-37 | Plot A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	0.0	24.0	22.81	1	36	Back	5	0.752	1.315	0.989	Plot
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	0.0	24.0	22.74	36	18	Back	5	0.705	1.337	0.943	
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.02	831.50	26865	0.0	24.0	22.71	75	0	Back	5	0.706	1.346	0.950	
Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	0.0	24.0	22.81	1	36	Front	5	0.305	1.315	0.401	
Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	0.01	831.50	26865	0.0	24.0	22.74	36	18	Front	5	0.300	1.337	0.401	
Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	0.00	831.50	26865	0.0	24.0	22.81	1	36	Bottom	5	0.381	1.315	0.501	
Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.04	831.50	26865	0.0	24.0	22.74	36	18	Bottom	5	0.362	1.337	0.484	
Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.06	831.50	26865	0.0	24.0	22.81	1	36	Right	5	0.202	1.315	0.266	
Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.04	831.50	26865	0.0	24.0	22.74	36	18	Right	5	0.198	1.337	0.265	
Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.11	831.50	26865	0.0	24.0	22.81	1	36	Left	5	0.116	1.315	0.153	
Hotspot	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	0.0	24.0	22.74	36	18	Left	5	0.113	1.337	0.151	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	LTE Band 26	15	QPSK	A	N/A	0158M	1:1	0.04	831.50	26865	0.0	25.0	24.32	1	36	Back	17	0.178	1.169	0.208	
Body-worn	LTE Band 26	15	QPSK	A	N/A	0158M	1:1	0.00	831.50	26865	1.0	24.0	23.34	36	18	Back	17	0.139	1.164	0.162	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak																	Body				
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	0.04	831.50	26865	0.0	25.0	24.32	1	36	Back	17	0.138	1.169	0.161	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	0.00	831.50	26865	1.0	24.0	23.34	36	18	Back	17	0.108	1.164	0.126	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	0.0	25.0	24.32	1	36	Front	0	0.564	1.169	0.659	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	1.0	24.0	23.34	36	18	Front	0	0.452	1.164	0.526	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.06	831.50	26865	0.0	25.0	24.32	1	36	Bottom	14	0.064	1.169	0.075	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	1.0	24.0	23.34	36	18	Bottom	14	0.048	1.164	0.056	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.04	831.50	26865	0.0	25.0	24.32	1	36	Right	0	0.737	1.169	0.862	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	0.02	831.50	26865	1.0	24.0	23.34	36	18	Right	0	0.593	1.164	0.690	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.06	831.50	26865	0.0	25.0	24.32	1	36	Left	0	0.100	1.169	0.117	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	0.02	831.50	26865	1.0	24.0	23.34	36	18	Left	0	0.078	1.164	0.091	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

Table 12-40 | Plot A25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.02	831.50	26865	0.0	24.0	22.81	1	36	Back	0	0.965	1.315	1.269	Plot
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	0.01	831.50	26865	0.0	24.0	22.74	36	18	Back	0	0.945	1.337	1.263	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	0.0	24.0	22.81	1	36	Bottom	0	0.794	1.315	1.044	
Phablet	LTE Band 26	15	QPSK	A	0158M	1:1	-0.01	831.50	26865	0.0	24.0	22.74	36	18	Bottom	0	0.793	1.337	1.060	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

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Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.															Page 61 of 76			

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12.9 LTE Band 66 (AWS) Standalone SAR

Table 12-41 | Plot A26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	LTE Band 66	20	QPSK	A	0128M	1:1	-0.05	1720.00	132072	0.0	24.0	23.96	1	50	Right Cheek	0	0.225	1.009	0.227	Plot
Head	LTE Band 66	20	QPSK	A	0128M	1:1	-0.11	1720.00	132072	1.0	23.0	22.96	50	25	Right Cheek	0	0.172	1.009	0.174	
Head	LTE Band 66	20	QPSK	A	0128M	1:1	-0.01	1720.00	132072	0.0	24.0	23.96	1	50	Right Tilt	0	0.162	1.009	0.163	
Head	LTE Band 66	20	QPSK	A	0128M	1:1	-0.03	1720.00	132072	1.0	23.0	22.96	50	25	Right Tilt	0	0.130	1.009	0.131	
Head	LTE Band 66	20	QPSK	A	0128M	1:1	0.10	1720.00	132072	0.0	24.0	23.96	1	50	Left Cheek	0	0.155	1.009	0.156	
Head	LTE Band 66	20	QPSK	A	0128M	1:1	-0.03	1720.00	132072	1.0	23.0	22.96	50	25	Left Cheek	0	0.123	1.009	0.124	
Head	LTE Band 66	20	QPSK	A	0128M	1:1	-0.03	1720.00	132072	0.0	24.0	23.96	1	50	Left Tilt	0	0.149	1.009	0.151	
Head	LTE Band 66	20	QPSK	A	0128M	1:1	0.00	1720.00	132072	1.0	23.0	22.96	50	25	Left Tilt	0	0.153	1.009	0.152	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-42 | Plot A27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	0.00	1720.00	132072	0.0	22.0	21.08	1	50	Back	5	0.805	1.236	0.995	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	0.00	1745.00	132322	0.0	22.0	20.84	1	50	Back	5	0.796	1.306	1.040	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.05	1770.00	132572	0.0	22.0	20.85	1	50	Back	5	0.793	1.303	1.033	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.05	1720.00	132072	0.0	22.0	21.04	50	25	Back	5	0.790	1.247	0.985	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.01	1745.00	132322	0.0	22.0	20.83	50	50	Back	5	0.830	1.309	1.086	Plot
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.01	1745.00	132322	0.0	22.0	20.81	50	50	Back	5	0.797	1.309	1.043	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.01	1770.00	132572	0.0	22.0	20.83	50	25	Back	5	0.812	1.309	1.063	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.01	1720.00	132072	0.0	22.0	20.87	100	0	Back	5	0.773	1.297	1.003	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	0.00	1720.00	132072	0.0	22.0	21.08	1	50	Front	5	0.403	1.236	0.496	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	0.00	1720.00	132072	0.0	22.0	21.04	50	25	Front	5	0.403	1.247	0.500	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	0.00	1720.00	132072	0.0	22.0	21.08	1	50	Bottom	5	0.741	1.236	0.916	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.01	1745.00	132322	0.0	22.0	20.84	1	50	Bottom	5	0.706	1.306	0.922	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	0.01	1770.00	132572	0.0	22.0	20.85	1	50	Bottom	5	0.697	1.303	0.908	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.01	1720.00	132072	0.0	22.0	21.04	50	25	Bottom	5	0.733	1.247	0.914	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	0.01	1745.00	132322	0.0	22.0	20.83	50	50	Bottom	5	0.711	1.309	0.931	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	0.00	1770.00	132572	0.0	22.0	20.83	50	25	Bottom	5	0.704	1.309	0.922	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.01	1720.00	132072	0.0	22.0	20.87	100	0	Bottom	5	0.715	1.297	0.927	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.03	1720.00	132072	0.0	22.0	21.08	1	50	Right	5	0.131	1.236	0.162	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.11	1720.00	132072	0.0	22.0	21.04	50	25	Right	5	0.131	1.247	0.163	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.01	1720.00	132072	0.0	22.0	21.08	1	50	Left	5	0.297	1.236	0.367	
Hotspot	LTE Band 66	20	QPSK	A	0121M	1:1	-0.05	1720.00	132072	0.0	22.0	21.04	50	25	Left	5	0.299	1.247	0.373	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram			

Note: Blue entry represents variability measurement

Table 12-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	LTE Band 66	20	QPSK	A	N/A	0128M	1:1	0.02	1720.00	132072	0.0	24.0	23.96	1	50	Back	17	0.277	1.009	0.279	
Body-worn	LTE Band 66	20	QPSK	A	N/A	0128M	1:1	0.01	1720.00	132072	1.0	23.0	22.96	50	25	Back	17	0.219	1.009	0.221	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak																	Body				
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-44 | Plot A28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.02	1720.00	132072	0.0	24.0	23.96	1	50	Back	17	0.189	1.009	0.191	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.01	1720.00	132072	1.0	23.0	22.96	50	25	Back	17	0.149	1.009	0.150	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.01	1720.00	132072	0.0	24.0	23.96	1	50	Front	0	1.670	1.009	1.685	Plot
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.01	1720.00	132072	1.0	23.0	22.96	50	25	Front	0	1.330	1.009	1.342	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.03	1720.00	132072	0.0	24.0	23.96	1	50	Bottom	14	0.207	1.009	0.209	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	-0.03	1720.00	132072	1.0	23.0	22.96	50	25	Bottom	14	0.162	1.009	0.163	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	-0.02	1720.00	132072	0.0	24.0	23.96	1	50	Right	0	0.185	1.009	0.197	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.03	1720.00	132072	1.0	23.0	22.96	50	25	Right	0	0.154	1.009	0.155	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	-0.01	1720.00	132072	0.0	24.0	23.96	1	50	Left	0	1.000	1.009	1.009	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.02	1720.00	132072	1.0	23.0	22.96	50	25	Left	0	0.791	1.009	0.798	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

Table 12-45

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	-0.02	1720.00	132072	0.0	22.0	21.08	1	50	Back	0	1.420	1.236	1.735	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.03	1720.00	132072	0.0	22.0	21.04	50	25	Back	0	1.440	1.247	1.796	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	-0.04	1720.00	132072	0.0	22.0	21.08	1	50	Bottom	0	1.040	1.236	1.285	
Phablet	LTE Band 66	20	QPSK	A	0128M	1:1	0.01	1720.00	132072	0.0	22.0	21.04	50	25	Bottom	0	1.040	1.247	1.297	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

FCC ID: A3LSMA185G	RF EXPOSURE TEST REPORT																	Approved by: Technical Manager		
Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.																	Page 62 of 76	

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12.10 LTE Band 2 (PCS) Standalone SAR

Table 12-46 | Plot A29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	LTE Band 2	20	QPSK	A	0121M	1:1	0.00	1880.00	18900	0.0	24.0	23.78	1	50	Right Cheek	0	0.175	1.052	0.184	Plot
Head	LTE Band 2	20	QPSK	A	0121M	1:1	0.00	1880.00	18900	1.0	23.0	22.81	50	25	Right Cheek	0	0.135	1.045	0.141	
Head	LTE Band 2	20	QPSK	A	0121M	1:1	0.02	1880.00	18900	0.0	24.0	23.78	1	50	Right Tilt	0	0.119	1.052	0.125	
Head	LTE Band 2	20	QPSK	A	0121M	1:1	-0.05	1880.00	18900	1.0	23.0	22.81	50	25	Right Tilt	0	0.094	1.045	0.098	
Head	LTE Band 2	20	QPSK	A	0121M	1:1	0.08	1880.00	18900	0.0	24.0	23.78	1	50	Left Cheek	0	0.136	1.052	0.143	
Head	LTE Band 2	20	QPSK	A	0121M	1:1	0.04	1880.00	18900	1.0	23.0	22.81	50	25	Left Cheek	0	0.108	1.045	0.113	
Head	LTE Band 2	20	QPSK	A	0121M	1:1	0.02	1880.00	18900	0.0	24.0	23.78	1	50	Left Tilt	0	0.158	1.052	0.166	
Head	LTE Band 2	20	QPSK	A	0121M	1:1	0.01	1880.00	18900	1.0	23.0	22.81	50	25	Left Tilt	0	0.127	1.045	0.133	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-47 | Plot A30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.02	1860.00	18700	0.0	21.0	19.85	1	50	Back	5	0.738	1.303	0.962	
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.00	1880.00	18900	0.0	21.0	19.83	1	50	Back	5	0.752	1.309	0.984	
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.00	1900.00	19100	0.0	21.0	19.87	1	50	Back	5	0.772	1.297	1.001	
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.00	1860.00	18700	0.0	21.0	19.87	50	25	Back	5	0.734	1.297	0.952	
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.01	1880.00	18900	0.0	21.0	19.85	50	25	Back	5	0.758	1.303	0.988	
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.01	1900.00	19100	0.0	21.0	19.90	50	25	Back	5	0.772	1.288	0.994	
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.00	1900.00	19100	0.0	21.0	19.80	100	0	Back	5	0.792	1.318	1.044	Plot
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.01	1900.00	19100	0.0	21.0	19.87	1	50	Front	5	0.777	1.297	0.989	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.01	1900.00	19100	0.0	21.0	19.90	50	25	Front	5	0.777	1.288	0.986	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.04	1860.00	18700	0.0	21.0	19.85	1	50	Bottom	5	0.718	1.303	0.936	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.01	1880.00	18900	0.0	21.0	19.83	1	50	Bottom	5	0.750	1.309	0.982	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.02	1900.00	19100	0.0	21.0	19.87	1	50	Bottom	5	0.738	1.297	0.957	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.01	1860.00	18700	0.0	21.0	19.87	50	25	Bottom	5	0.716	1.297	0.929	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.01	1880.00	18900	0.0	21.0	19.85	50	25	Bottom	5	0.754	1.303	0.982	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.00	1900.00	19100	0.0	21.0	19.90	50	25	Bottom	5	0.747	1.288	0.962	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.03	1900.00	19100	0.0	21.0	19.80	100	0	Bottom	5	0.765	1.318	1.008	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.01	1900.00	19100	0.0	21.0	19.87	1	50	Right	5	0.082	1.297	0.106	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.13	1900.00	19100	0.0	21.0	19.90	50	25	Right	5	0.083	1.288	0.107	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	-0.04	1900.00	19100	0.0	21.0	19.87	1	50	Left	5	0.266	1.297	0.345	
Hotspot	LTE Band 2	20	QPSK	A	0128M	1:1	0.00	1900.00	19100	0.0	21.0	19.90	50	25	Left	5	0.267	1.288	0.344	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	LTE Band 2	20	QPSK	A	N/A	0121M	1:1	-0.06	1880.00	18900	0.0	24.0	23.78	1	50	Back	17	0.229	1.052	0.241	
Body-worn	LTE Band 2	20	QPSK	A	N/A	0121M	1:1	-0.06	1880.00	18900	1.0	23.0	22.81	50	25	Back	17	0.192	1.045	0.201	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak																	Body				
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	-0.06	1880.00	18900	0.0	24.0	23.78	1	50	Back	17	0.138	1.052	0.145	
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	-0.06	1880.00	18900	1.0	23.0	22.81	50	25	Back	17	0.115	1.045	0.120	
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	0.01	1880.00	18900	0.0	24.0	23.78	1	50	Front	0	1.260	1.052	1.326	
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	0.01	1880.00	18900	1.0	23.0	22.81	50	25	Front	0	1.010	1.045	1.055	
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	0.02	1880.00	18900	0.0	24.0	23.78	1	50	Bottom	14	0.229	1.052	0.241	
Phablet	LTE Band 2	20	QPSK	A	0128M	1:1	0.01	1880.00	18900	1.0	23.0	22.81	50	25	Bottom	14	0.288	1.045	0.194	
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	-0.03	1880.00	18900	0.0	24.0	23.78	1	50	Right	0	0.208	1.052	0.219	
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	0.01	1880.00	18900	1.0	23.0	22.81	50	25	Right	0	0.165	1.045	0.172	
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	0.02	1880.00	18900	0.0	24.0	23.78	1	50	Left	0	0.780	1.052	0.821	
Phablet	LTE Band 2	20	QPSK	A	0121M	1:1	-0.01	1880.00	18900	1.0	23.0	22.81	50	25	Left	0	0.625	1.045	0.653	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

Table 12-50 | Plot A31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 2	20	QPSK	A	0128M	1:1	-0.01	1900.00	19100	0.0	21.0	19.87	1	50	Back	0	1.350	1.297	1.751	
Phablet	LTE Band 2	20	QPSK	A	0128M	1:1	-0.01	1900.00	19100	0.0	21.0	19.90	50	25	Back	0	1.360	1.288	1.752	Plot
Phablet	LTE Band 2	20	QPSK	A	0128M	1:1	0.03	1900.00	19100	0.0	21.0	19.87	1	50	Bottom	0	1.000	1.297	1.297	
Phablet	LTE Band 2	20	QPSK	A	0128M	1:1	-0.04	1900.00	19100	0.0	21.0	19.90	50	25	Bottom	0	1.010	1.288	1.301	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

FCC ID: A3LSMA185G	RF EXPOSURE TEST REPORT																Approved by: Technical Manager			
Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.															Page 63 of 76			

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12.11 LTE Band 41 Standalone SAR

Table 12-51 | Plot A32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.03	2506.00	39750	0.0	24.0	23.04	1	50	Right Cheek	0	0.096	1.247	0.120	
Head	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.18	2506.00	39750	1.0	23.0	22.04	50	25	Right Cheek	0	0.074	1.247	0.092	
Head	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.13	2506.00	39750	0.0	24.0	23.04	1	50	Right Tilt	0	0.047	1.247	0.059	
Head	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.05	2506.00	39750	1.0	23.0	22.04	50	25	Right Tilt	0	0.036	1.247	0.045	
Head	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.12	2506.00	39750	0.0	24.0	23.04	1	50	Left Cheek	0	0.155	1.247	0.193	
Head	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.01	2506.00	39750	1.0	23.0	22.04	50	25	Left Cheek	0	0.126	1.247	0.157	
Head	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.11	2506.00	39750	0.0	24.0	23.04	1	50	Left Tilt	0	0.067	1.247	0.084	
Head	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.09	2506.00	39750	1.0	23.0	22.04	50	25	Left Tilt	0	0.052	1.247	0.065	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-52 | Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-Worn/Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.01	2506.00	39750	0.0	20.0	19.23	1	50	Back	5	0.454	1.194	0.542	
Body-Worn/Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.00	2506.00	39750	0.0	20.0	19.13	50	25	Back	5	0.444	1.222	0.543	
Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.05	2506.00	39750	0.0	20.0	19.23	1	50	Front	5	0.180	1.194	0.215	
Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.02	2506.00	39750	0.0	20.0	19.13	50	25	Front	5	0.178	1.222	0.218	
Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.00	2506.00	39750	0.0	20.0	19.23	1	50	Bottom	5	0.273	1.194	0.326	
Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.03	2506.00	39750	0.0	20.0	19.13	50	25	Bottom	5	0.270	1.222	0.330	
Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.01	2506.00	39750	0.0	20.0	19.23	1	50	Right	5	0.046	1.194	0.055	
Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.11	2506.00	39750	0.0	20.0	19.13	50	25	Right	5	0.045	1.222	0.055	
Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.05	2506.00	39750	0.0	20.0	19.23	1	50	Left	5	0.110	1.194	0.131	
Hotspot	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.08	2506.00	39750	0.0	20.0	19.13	50	25	Left	5	0.107	1.222	0.131	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.04	2506.00	39750	0.0	24.0	23.04	1	50	Back	17	0.112	1.247	0.140	
Body-worn	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.06	2506.00	39750	1.0	23.0	22.04	50	25	Back	17	0.086	1.247	0.107	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-54 | Plot A34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.04	2506.00	39750	0.0	24.0	23.04	1	50	Back	17	0.065	1.247	0.081	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.06	2506.00	39750	1.0	23.0	22.04	50	25	Back	17	0.050	1.247	0.062	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.00	2506.00	39750	0.0	24.0	23.04	1	50	Front	0	0.837	1.247	1.044	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.01	2506.00	39750	1.0	23.0	22.04	50	25	Front	0	0.658	1.247	0.821	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.01	2506.00	39750	0.0	24.0	23.04	1	50	Bottom	14	0.093	1.247	0.116	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.04	2506.00	39750	1.0	23.0	22.04	50	25	Bottom	14	0.073	1.247	0.091	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.03	2506.00	39750	0.0	24.0	23.04	1	50	Right	0	0.134	1.247	0.167	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.03	2506.00	39750	1.0	23.0	22.04	50	25	Right	0	0.103	1.247	0.128	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.04	2506.00	39750	0.0	24.0	23.04	1	50	Left	0	0.465	1.247	0.580	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.04	2506.00	39750	1.0	23.0	22.04	50	25	Left	0	0.380	1.247	0.474	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phablet 4.0 W/kg (mW/g) averaged over 10 grams				

Table 12-55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.07	2506.00	39750	0.0	20.0	19.23	1	50	Back	0	0.813	1.194	0.971	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.01	2506.00	39750	0.0	20.0	19.13	50	25	Back	0	0.807	1.222	0.986	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	-0.02	2506.00	39750	0.0	20.0	19.23	1	50	Bottom	0	0.573	1.194	0.684	
Phablet	LTE Band 41	20	QPSK	A	0128M	1.1.58	0.01	2506.00	39750	0.0	20.0	19.13	50	25	Bottom	0	0.574	1.222	0.701	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phablet 4.0 W/kg (mW/g) averaged over 10 grams				

FCC ID: A3LSMA185G	RF EXPOSURE TEST REPORT																Approved by: Technical Manager			
Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.															Page 64 of 76			

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12.12 2.4 GHz WIFI SISO Standalone SAR

Table 12-56 | Plot A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0157M	99.53	-0.02	2462.00	11	1.0	19.0	18.89	Right Cheek	0	0.513	1.026	1.005	0.529	Plot
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0157M	99.53	-0.01	2462.00	11	1.0	19.0	18.89	Right Tilt	0	0.474	1.026	1.005	0.489	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0157M	99.53	0.01	2462.00	11	1.0	19.0	18.89	Left Cheek	0	0.281	1.026	1.005	0.290	
Head	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0157M	99.53	-0.16	2462.00	11	1.0	19.0	18.89	Left Tilt	0	0.331	1.026	1.005	0.341	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-57 | Plot A36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/hotspot	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0109M	99.53	-0.07	2437.00	6	1.0	15.0	14.92	Back	5	0.293	1.020	1.005	0.300	Plot
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0109M	99.53	-0.01	2437.00	6	1.0	15.0	14.92	Top	5	0.120	1.020	1.005	0.123	
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0157M	99.53	-0.06	2462.00	11	1.0	19.0	18.89	Front	5	0.241	1.026	1.005	0.249	
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0157M	99.53	0.02	2462.00	11	1.0	19.0	18.89	Left	5	0.088	1.026	1.005	0.091	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-58

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0159M	99.53	-0.07	2462.00	11	1.0	19.0	18.89	Back	11	0.154	1.026	1.005	0.159	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-59 | Plot A37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0159M	99.53	-0.07	2462.00	11	1.0	19.0	18.89	Back	11	0.073	1.026	1.005	0.075	
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0159M	99.53	0.08	2462.00	11	1.0	19.0	18.89	Front	0	0.487	1.026	1.005	0.502	Plot
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0159M	99.53	0.06	2462.00	11	1.0	19.0	18.89	Top	13	0.054	1.026	1.005	0.056	
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0159M	99.53	-0.15	2462.00	11	1.0	19.0	18.89	Left	0	0.117	1.026	1.005	0.121	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

Table 12-60

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0109M	99.53	0.00	2437.00	6	1.0	15.0	14.92	Back	0	0.300	1.020	1.005	0.308	
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	C	0109M	99.53	0.02	2437.00	6	1.0	15.0	14.92	Top	0	0.202	1.020	1.005	0.207	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

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Document S/N: 1M2607060061-14.A3L(Rev2)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo.			 Page 65 of 76

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12.13 5 GHz WIFI SISO Standalone SAR

Table 12-61 | Plot A38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.09	5210.00	42	U-NII-1	29.3	14.0	12.96	Right Cheek	0	0.267	1.271	1.150	0.390	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.09	5610.00	122	U-NII-2C	29.3	14.0	13.22	Right Cheek	0	0.484	1.197	1.150	0.666	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.08	5775.00	155	U-NII-3	29.3	14.0	13.30	Right Cheek	0	0.470	1.175	1.150	0.635	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.03	5210.00	42	U-NII-1	29.3	14.0	12.96	Right Tilt	0	0.358	1.271	1.150	0.523	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.05	5530.00	106	U-NII-2C	29.3	12.5	11.61	Right Tilt	0	0.477	1.227	1.150	0.673	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.09	5610.00	122	U-NII-2C	29.3	14.0	13.22	Right Tilt	0	0.782	1.197	1.150	1.076	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	-0.01	5690.00	138	U-NII-2C	29.3	14.0	13.19	Right Tilt	0	0.636	1.205	1.150	0.881	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	-0.07	5775.00	155	U-NII-3	29.3	14.0	13.30	Right Tilt	0	0.624	1.175	1.150	0.843	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.02	5210.00	42	U-NII-1	29.3	14.0	12.96	Left Cheek	0	0.257	1.271	1.150	0.376	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	-0.02	5530.00	106	U-NII-2C	29.3	12.5	11.61	Left Cheek	0	0.409	1.227	1.150	0.577	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	-0.07	5610.00	122	U-NII-2C	29.3	14.0	13.22	Left Cheek	0	0.505	1.197	1.150	0.695	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	-0.12	5690.00	138	U-NII-2C	29.3	14.0	13.19	Left Cheek	0	0.604	1.205	1.150	0.837	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.10	5775.00	155	U-NII-3	29.3	14.0	13.30	Left Cheek	0	0.594	1.175	1.150	0.803	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.13	5210.00	42	U-NII-1	29.3	14.0	12.96	Left Tilt	0	0.330	1.271	1.150	0.482	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.03	5530.00	106	U-NII-2C	29.3	12.5	11.61	Left Tilt	0	0.468	1.227	1.150	0.660	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	-0.04	5610.00	122	U-NII-2C	29.3	14.0	13.22	Left Tilt	0	0.671	1.197	1.150	0.924	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	0.03	5690.00	138	U-NII-2C	29.3	14.0	13.19	Left Tilt	0	0.694	1.205	1.150	0.962	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0157M	86.98	-0.06	5775.00	155	U-NII-3	29.3	14.0	13.30	Left Tilt	0	0.786	1.175	1.150	1.035	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head					
Spatial Peak															1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population															averaged over 1 gram					

Table 12-62 | Plot A40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.07	5290.00	58	U-NII-2A	29.3	11.0	10.06	Back	5	0.182	1.242	1.150	0.260	
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0124M	86.98	-0.06	5610.00	122	U-NII-2C	29.3	11.0	10.10	Back	5	0.375	1.230	1.150	0.530	
Body-worn/Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.01	5775.00	155	U-NII-3	29.3	11.0	10.36	Back	5	0.477	1.159	1.150	0.636	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.01	5210.00	42	U-NII-1	29.3	11.0	9.90	Back	5	0.156	1.288	1.150	0.231	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.04	5210.00	42	U-NII-1	29.3	11.0	9.90	Top	5	0.295	1.288	1.150	0.438	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.01	5775.00	155	U-NII-3	29.3	11.0	10.36	Top	5	0.661	1.159	1.150	0.888	
Hotspot	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	0.06	5220.00	44	U-NII-1	6.0	17.0	16.70	Front	5	0.190	1.071	1.033	0.210	
Hotspot	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	0.04	5825.00	165	U-NII-3	6.0	17.0	16.67	Front	5	0.400	1.079	1.033	0.446	
Hotspot	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	0.03	5220.00	44	U-NII-1	6.0	17.0	16.70	Left	5	0.142	1.071	1.033	0.157	
Hotspot	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	0.01	5825.00	165	U-NII-3	6.0	17.0	16.67	Left	5	0.413	1.079	1.033	0.460	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body					
Spatial Peak															1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population															averaged over 1 gram					

Table 12-63 | Plot A39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	-0.07	5280.00	56	U-NII-2A	6.0	17.0	16.70	Back	11	0.566	1.073	1.033	0.627	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	0.01	5590.00	100	U-NII-2C	6.0	17.0	16.53	Back	11	0.957	1.114	1.033	1.024	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	0.06	5590.00	100	U-NII-2C	6.0	17.0	16.53	Back	11	0.872	1.114	1.033	1.003	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	0.01	5600.00	120	U-NII-2C	6.0	17.0	16.62	Back	11	0.867	1.091	1.033	0.977	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	-0.01	5620.00	124	U-NII-2C	6.0	17.0	16.63	Back	11	0.815	1.089	1.033	0.917	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	-0.02	5720.00	144	U-NII-2C	6.0	17.0	16.43	Back	11	0.852	1.140	1.033	1.003	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	0.08	5745.00	149	U-NII-3	6.0	17.0	16.47	Back	11	0.905	1.130	1.033	1.056	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	0.11	5785.00	157	U-NII-3	6.0	17.0	16.65	Back	11	0.898	1.084	1.033	1.006	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	0.01	5825.00	165	U-NII-3	6.0	17.0	16.67	Back	11	0.971	1.079	1.033	1.082	
Body-worn	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	-0.03	5825.00	165	U-NII-3	6.0	17.0	16.67	Back	11	0.880	1.075	1.033	0.981	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body					
Spatial Peak															1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population															averaged over 1 gram					

Note: Blue entry represents variability measurement

Table 12-64

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	-0.07	5280.00	56	U-NII-2A	6.0	17.0	16.70	Back	11	0.201	1.073	1.033	0.223	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	-0.01	5620.00	124	U-NII-2C	6.0	17.0	16.63	Back	11	0.286	1.089	1.033	0.322	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0109M	96.80	0.01	5825.00	165	U-NII-3	6.0	17.0	16.67	Back	11	0.342	1.079	1.033	0.381	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0123M	96.80	0.07	5280.00	56	U-NII-2A	6.0	17.0	16.70	Front	0	0.259	1.073	1.033	0.287	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	-0.12	5620.00	124	U-NII-2C	6.0	17.0	16.63	Front	0	0.353	1.089	1.033	0.397	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	0.07	5825.00	165	U-NII-3	6.0	17.0	16.67	Front	0	0.403	1.079	1.033	0.449	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0123M	96.80	-0.11	5280.00	56	U-NII-2A	6.0	17.0	16.70	Top	13	0.206	1.073	1.033	0.228	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	0.00	5620.00	124	U-NII-2C	6.0	17.0	16.63	Top	13	0.313	1.089	1.033	0.352	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	-0.02	5825.00	165	U-NII-3	6.0	17.0	16.67	Top	13	0.338	1.079	1.033	0.377	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0123M	96.80	0.02	5280.00	56	U-NII-2A	6.0	17.0	16.70	Left	0	0.151	1.073	1.033	0.167	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	0.06	5620.00	124	U-NII-2C	6.0	17.0	16.63	Left	0	0.292	1.089	1.033	0.328	
Phablet	5 GHz WiFi / IEEE 802.11a	20	OFDM	C	0124M	96.80	0.01	5825.00	165	U-NII-3	6.0	17.0	16.67	Left	0	0.379	1.079	1.033	0.389	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																Phablet				
Spatial Peak																4.0 W/kg (mW/g)				
Uncontrolled Exposure/General Population																averaged over 10 grams				

Table 12-65 | Plot A41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.03	5290.00	58	U-NII-2A	29.3	11.0	10.06	Back	0	0.105	1.242	1.150	0.150	
Phablet	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	C	0124M	86.98	-0.03	5610.00	122	U-NII-2C	29.3	11.0	10.10	Back	0	0.269	1.230	1.150	0.381	
Phablet	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.05	5775.00	155	U-NII-3	29.3	11.0	10.36	Back	0	0.375	1.159	1.150	0.500	
Phablet	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.01	5290.00	58	U-NII-2A	29.3	11.0	10.06	Top	0	0.219	1.242	1.150	0.313	
Phablet	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	C	0124M	86.98	-0.08	5610.00	122	U-NII-2C	29.3	11.0	10.10	Top	0	0.429	1.230	1.150	0.607	
Phablet	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	C	0124M	86.98	0.02	5775.00	155	U-NII-3	29.3	11.0	10.36	Top	0	0.520	1.159	1.150	0.693	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phablet 4.0 W/kg (mW/g) averaged over 10 grams				

12.14 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-66 | Plot A42

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz Bluetooth	FHSS	C	0159M	77.01	0.01	2480.00	78	1	12.0	11.59	Right Cheek	0	0.094	1.099	1.026	0.106	
Head	2.4 GHz Bluetooth	FHSS	C	0159M	77.01	0.08	2480.00	78	1	12.0	11.59	Right Tilt	0	0.105	1.099	1.026	0.118	Plot
Head	2.4 GHz Bluetooth	FHSS	C	0159M	77.01	0.03	2480.00	78	1	12.0	11.59	Left Cheek	0	0.043	1.099	1.026	0.048	
Head	2.4 GHz Bluetooth	FHSS	C	0159M	77.01	-0.04	2480.00	78	1	12.0	11.59	Left Tilt	0	0.045	1.099	1.026	0.051	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram				

Table 12-67 | Plot A43

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	2.4 GHz Bluetooth	FHSS	C	0159M	77.01	0.03	2480.00	78	1	12.0	11.59	Back	5	0.100	1.099	1.026	0.113	Plot
Hotspot	2.4 GHz Bluetooth	FHSS	C	0159M	77.01	0.06	2480.00	78	1	12.0	11.59	Front	5	0.040	1.099	1.026	0.045	
Hotspot	2.4 GHz Bluetooth	FHSS	C	0159M	77.01	0.07	2480.00	78	1	12.0	11.59	Top	5	0.047	1.099	1.026	0.053	
Hotspot	2.4 GHz Bluetooth	FHSS	C	0159M	77.01	0.07	2480.00	78	1	12.0	11.59	Left	5	0.009	1.099	1.026	0.010	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body					
Spatial Peak													1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population													averaged over 1 gram					

12.15 NFC Standalone SAR

Table 12-68 | Plot A44

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plot #
Phablet	NFC	B	NFC	0159M	0.00	13.60	Back	0	0.034	Plot
Phablet	NFC	B	NFC	0159M	0.01	13.60	Front	0	0.000	
Phablet	NFC	B	NFC	0159M	0.05	13.60	Top	0	0.000	
Phablet	NFC	B	NFC	0159M	0.01	13.60	Left	0	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4.0 W/kg (mW/g) averaged over 10 grams	

SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D04v01.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.

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6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 5 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 13 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 7.7 for more details).
10. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.

GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Per FCC guidance, since the frame average target of GPRS is higher than GSM, GPRS was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

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 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 9.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41, 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

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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.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 9.6.5 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI 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 9.6.6 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.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
5. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 79% transmission duty factor for Bluetooth to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.

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13 SAR MEASUREMENT VARIABILITY

13.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

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

Table 13-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing (mm)	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)
835	846.60	4233	UMTS 850	RMC	Back	5	A	0.921	0.897	1.03	N/A	N/A	N/A
1750	1745.00	132322	LTE Band 66, 20 MHz Bandwidth	QPSK, 50 RB, 50 RB Offset	Back	5	A	0.830	0.797	1.04	N/A	N/A	N/A
5600	5500.00	100	5 GHz WiFi IEEE 802.11a, 20 MHz Bandwidth	OFDM	Back	11	C	0.957	0.872	1.10	N/A	N/A	N/A
5750	5825.00	165	5 GHz WiFi IEEE 802.11a, 20 MHz Bandwidth	OFDM	Back	11	C	0.971	0.880	1.10	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram								

13.2 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 per IEEE 1528-2013 was not required.

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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	2025-11-02	Annual	2026-11-02	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	2026-03-23	Annual	2027-03-23	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	2026-04-13	Annual	2027-04-13	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	2025-10-28	Annual	2026-10-28	MY40003841
Agilent	8753ES	S-Parameter Vector Network Analyzer	2025-10-27	Annual	2026-10-27	US39170118
Agilent	E5515C	Wireless Communications Test Set	2026-07-06	Annual	2027-07-06	MY50262130
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6M3	Amplifier	2026-04-13	Annual	2027-04-13	390882
Amplifier Research	1551G6	Amplifier	2026-07-06	Annual	2027-07-06	0433971
Amplifier Research	150A100C	Amplifier	2026-01-28	Annual	2027-01-28	0348812
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	MA2411B	Pulse Power Sensor	2025-10-14	Annual	2026-10-14	1726262
Anritsu	MA2411B	Pulse Power Sensor	2025-10-14	Annual	2026-10-14	1027293
Anritsu	MA24106A	USB Power Sensor	2025-08-04	Annual	2026-08-04	1827530
Anritsu	MA24106A	USB Power Sensor	2026-02-20	Annual	2027-02-20	1520501
Rohde & Schwarz	NRP-Z21	AVG Power Sensor	2026-04-13	Annual	2027-04-13	104153
Rohde & Schwarz	NRP-Z21	AVG Power Sensor	2026-03-27	Annual	2027-03-27	104695
Rohde & Schwarz	NRP2	Power Meter	2026-04-13	Annual	2027-04-13	103084
Control Company	4353	Ultra Long Stem Thermometer	2025-10-16	Annual	2026-10-16	200645916
TERMOPRODUKT	DT-1	Digital Thermometer	2025-10-16	Annual	2026-10-16	740621
Testo	testo622	TEMP. & HUMID. BAROMETER	2025-09-16	Annual	2026-09-16	39527474/0321
Testo	608-H1	ALARM-HYGROMETER	2026-07-09	Annual	2027-07-09	83316952
Testo	608-H1	ALARM-HYGROMETER	2026-07-09	Annual	2027-07-09	83316953
Agilent	N9020A	MXA Signal Analyzer	2026-03-06	Annual	2027-03-06	MY50510381
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
MCL	BW-N6W5+	6dB Attenuator	2026-07-06	Annual	2027-07-06	1605
RFCOREA	MA-18G10-5W-NMF	Attenuator	2026-03-04	Annual	2027-03-04	ESS-10-2
RFCOREA	MA-18G3-5W-NMF	Attenuator	2026-03-04	Annual	2027-03-04	ESS-3-1
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	NC-100	Torque Wrench	2025-05-29	Biennial	2027-05-29	N/A
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2025-10-24	Annual	2026-10-24	131453
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2025-10-24	Annual	2026-10-24	131454
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2025-10-23	Annual	2026-10-23	150117
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2026-01-12	Annual	2027-01-12	172586
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2026-01-12	Annual	2027-01-12	172585
SPEAG	DAK-3.5	Dielectric Assessment Kit	2025-11-16	Annual	2026-11-16	1383
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	2025-10-13	Annual	2026-10-13	1091
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	2025-11-16	Annual	2026-11-16	1220
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	CLA-13	Confined Loop Antenna	2025-09-04	Annual	2026-09-04	1002
SPEAG	D750V3	750 MHz SAR Dipole	2026-02-03	Annual	2027-02-03	1046
SPEAG	D750V3	750 MHz SAR Dipole	2026-05-18	Annual	2027-05-18	1003
SPEAG	D835V2	835 MHz SAR Dipole	2026-04-21	Annual	2027-04-21	4d119
SPEAG	D835V2	835 MHz SAR Dipole	2026-06-05	Annual	2027-06-05	4d180
SPEAG	D1750V2	1750 MHz SAR Dipole	2026-06-12	Annual	2027-06-12	1092
SPEAG	D1750V2	1750 MHz SAR Dipole	2026-04-21	Annual	2027-04-21	1051
SPEAG	D1900V2	1900 MHz SAR Dipole	2026-06-10	Annual	2027-06-10	50026
SPEAG	D1900V2	1900 MHz SAR Dipole	2026-04-17	Annual	2027-04-17	5d141
SPEAG	D2450V2	2450 MHz SAR Dipole	2024-08-07	Biennial	2026-08-07	719
SPEAG	D2450V2	2450 MHz SAR Dipole	2026-02-12	Annual	2027-02-12	882
SPEAG	D2600V2	2600 MHz SAR Dipole	2025-08-11	Annual	2026-08-11	1126
SPEAG	D2600V2	2600 MHz SAR Dipole	2026-04-22	Annual	2027-04-22	1009
SPEAG	D5GHzV2	5 GHz SAR Dipole	2026-06-15	Annual	2027-06-15	1237
SPEAG	D5GHzV2	5 GHz SAR Dipole	2026-01-16	Annual	2027-01-16	1191
SPEAG	DAE4	Dasy Data Acquisition Electronics	2026-04-21	Annual	2027-04-21	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	2026-05-21	Annual	2027-05-21	1502
SPEAG	DAE4	Dasy Data Acquisition Electronics	2025-10-13	Annual	2026-10-13	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	2026-03-10	Annual	2027-03-10	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	2026-03-09	Annual	2027-03-09	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	2026-02-09	Annual	2027-02-09	859
SPEAG	DAE4	Dasy Data Acquisition Electronics	2026-06-09	Annual	2027-06-09	1652
SPEAG	EX3DV4	SAR Probe	2026-04-23	Annual	2027-04-23	7546
SPEAG	EX3DV4	SAR Probe	2026-05-26	Annual	2027-05-26	7402
SPEAG	EX3DV4	SAR Probe	2025-10-13	Annual	2026-10-13	7803
SPEAG	EX3DV4	SAR Probe	2026-03-11	Annual	2027-03-11	7539
SPEAG	EX3DV4	SAR Probe	2026-03-11	Annual	2027-03-11	7488
SPEAG	EX3DV4	SAR Probe	2026-02-11	Annual	2027-02-11	7570
SPEAG	EX3DV4	SAR Probe	2026-06-12	Annual	2027-06-12	7637

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15 MEASUREMENT UNCERTAINTIES

Note: The tables below represent the worst-case uncertainty budget among the uncertainty budgets of all testing laboratories listed in Section 1.2

Applicable for SAR measurements < 6GHz on a flat phantom:

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

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

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Applicable for SAR measurements $4\text{MHz} < f < 300\text{MHz}$ on a flat phantom:

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

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

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16 CONCLUSION

16.1 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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