

PCTEST

7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654 http://www.pctest.com



SAR EVALUATION REPORT

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Maetan dong, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea Date of Testing: 06/28/2021-07/31/2021 Test Site/Location: PCTEST Lab, Columbia, MD, USA Document Serial No.:

1M2106100066-01.A3L (Rev 1)

FCC ID: A3LSMF711JPN

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

DUT Type: Portable Handset Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: SCG12. SC-54B

	<u>'</u>	30012, 30-346							
Equipment	Band & Mode	Tx Frequency	SAR						
Class	Bana & Mode	TXTTEQUETICS	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	0.18	0.25	0.95	N/A			
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.50	0.89	2.39			
PCE	UMTS 850	826.40 - 846.60 MHz	0.40	0.47	0.88	N/A			
PCE	LTE Band 12	699.7 - 715.3 MHz	0.17	0.18	0.41	N/A			
PCE	LTE Band 13	779.5 - 784.5 MHz	0.16	0.26	0.77	N/A			
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.31	0.38	0.85	N/A			
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	0.11	0.67	0.95	2.89			
PCE	LTE Band 41	2498.5 - 2687.5 MHz	0.12	0.24	0.84	1.12			
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.25	< 0.1	0.34	N/A			
NII	U-NII-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A			
NII	U-NII-2A	5260 - 5320 MHz	< 0.1	< 0.1	N/A	0.65			
NII	U-NII-2C	5500 - 5720 MHz	< 0.1	< 0.1	N/A	0.59			
NII	U-NII-3	5745 - 5825 MHz	< 0.1	< 0.1	0.36	N/A			
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.19	<0.1	0.32	N/A			
Simultaneous	SAR per KDB 690783 D01v	01r03:	0.96	0.91	1.59	3.95			

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

This 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 0 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.







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.

	FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:	Page 1 of 137
	1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 1 of 137
200	1 DOTEST	•		DE\/ 21 4 M

© 2021 PCT

09/11/2019

TABLE OF CONTENTS

1	DEVICE	UNDER TEST	3
2	LTE INFO	DRMATION	18
3	INTROD	JCTION	19
4	DOSIME	TRIC ASSESSMENT	20
5	DEFINITI	ON OF REFERENCE POINTS	21
6	TEST CC	ONFIGURATION POSITIONS	22
7	RF EXPO	OSURE LIMITS	26
8	FCC ME	ASUREMENT PROCEDURES	27
9	RF CONI	DUCTED POWERS	33
10		VERIFICATION	
11		ΓA SUMMARY	
12		LTI-TX AND ANTENNA SAR CONSIDERATIONS	
13	SAR ME	ASUREMENT VARIABILITY	131
14	EQUIPM	ENT LIST	133
15	MEASUR	REMENT UNCERTAINTIES	134
16	CONCLU	ISION	135
17	REFERE	NCES	136
APPEN	DIX A:	SAR TEST PLOTS	
APPEN	DIX B:	SAR DIPOLE VERIFICATION PLOTS	
APPEN	DIX C:	SAR TISSUE SPECIFICATIONS	
APPEN	DIX D:	SAR SYSTEM VALIDATION	
APPEN	DIX E:	DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS	
APPEN	DIX F:	LTE LOWER BANDWIDTH RF CONDUCTED POWERS	
APPEN	DIX G:	POWER REDUCTION VERIFICATION	
APPEN	DIX H:	DOWNLINK LTE CA RF CONDUCTED POWERS	
APPEN	DIX I:	IEEE 802.11AX RU SAR EXCLUSION	
APPEN	DIX J:	PROBE AND DIPOLE CALIBRATION CERTIFICATES	

FCC ID: A3LSMF711JPN		SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Page 2 of 137	
1M2106100066-01.A3L (Rev 1) 06/28/2021 - 07/31/202		Portable Handset	Page 2 01 137	

1 DEVICE UNDER TEST

1.1 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				
LTE Band 12	Voice/Data	699.7 - 715.3 MHz				
LTE Band 13	Voice/Data	779.5 - 784.5 MHz				
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz				
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz				
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz				
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz				
U-NII-1	Voice/Data	5180 - 5240 MHz				
U-NII-2A	Voice/Data	5260 - 5320 MHz				
U-NII-2C	Voice/Data	5500 - 5720 MHz				
U-NII-3	Voice/Data	5745 - 5825 MHz				
Bluetooth	Data	2402 - 2480 MHz				
NFC	Data	13.56 MHz				

1.2 Power Reduction for SAR

This device utilizes a power reduction mechanism for some wireless modes and bands for SAR compliance under portable hotspot conditions and under some conditions when the device is being used in close proximity to the user's hand. All hotspot SAR evaluations for this device were performed at the maximum allowed output power when hotspot 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 used an independent fixed level power reduction mechanism for WLAN/BT operations during voice or VoIP held to ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Down 2 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 3 of 137	

© 2021 PCTEST REV 21.4 M 09/11/2019

Nominal and Maximum Output Power Specifications 1.3

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

1.3.1 2G/3G/4G Output Power

	GSM/GPRS/EDGE 850													
Power Level		Voice (in dBm)	Data	a - Burst Avera	ge GMSK (in d	IBm)	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				
Max	Max allowed power	33.0	33.0	32.0	30.0	28.0	27.5	25.5	23.5	22.5				
IVIdX	Nominal	32.0	32.0	31.0	29.0	27.0	26.5	24.5	22.5	21.5				
Hotspot Mode Active	Max allowed power	N/A	32.0	31.0	29.0	27.0	27.0	24.5	22.5	21.5				
notspot Mode Active	Nominal	N/A	31.0	30.0	28.0	26.0	26.0	23.5	21.5	20.5				
			GSM/GP	RS/EDGE 19	000									
Power Level		Voice (in dBm)	Data	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				
Max	Max allowed power	30.0	30.0	28.5	26.5	24.5	26.5	24.0	22.0	21.0				
IVIdX	Nominal	29.0	29.0	27.5	25.5	23.5	25.5	23.0	21.0	20.0				
Hotspot Mode Active	Max allowed power	N/A	25.0	23.5	21.5	19.5	22.0	19.5	17.0	16.0				
notspot widde Active	Nominal	N/A	24.0	22.5	20.5	18.5	21.0	18.5	16.0	15.0				
Proximity Sensor and/or	Max allowed power	27.0	27.0	25.5	23.5	21.5	24.0	21.5	19.0	18.0				
Earjack Mode Active	Nominal	26.0	26.0	24.5	22.5	20.5	23.0	20.5	18.0	17.0				

	UMTS Band 5 (850 MHz)											
		Modulate	d Average Out (in dBm)	put Power								
Power Level		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6								
Max	Max allowed power	25.5	24.5	24.5								
IVIdX	Nominal	24.5	23.5	23.5								
Hotspot Mode Active	Max allowed power	24.0	23.0	23.0								
Hotspot Widde Active	Nominal	23.0	22.0	22.0								

	FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:	Dog 4 of 127
1M2106100066-01.A3L (Rev 1)		06/28/2021 - 07/31/2021	Portable Handset	Page 4 of 137

		Modulated A	Average Output Pow	ver (in dBm)	
Mode / Band		Max	Hotspot Mode Active	Proximity Sensor and/or Earjack Mode Active	
LTE FDD Band 12	Max allowed power	24.0	24.0	24.0	
LIE FDD Ballu 12	Nominal	23.0	23.0	23.0	
LTE FDD Band 13	Max allowed power	24.0	24.0	24.0	
LIE FDD Ballu 15	Nominal	23.0	23.0	23.0	
LTE FDD Band 5	Max allowed power	25.7	24.0	25.7	
LIE FUU Ballu 5	Nominal	24.7	23.0	24.7	
LTE FDD Band 4	Max allowed power	24.0	19.0	21.0	
LIE FUU Ballu 4	Nominal	23.0	18.0	20.0	
LTE TDD Band 41	Max allowed power	25.0	19.5	22.0	
LIE IDD Ballu 41	Nominal	24.0	18.5	21.0	

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogo F of 427	
1M2106100066-01.A3L (Rev 1) 06/28/2021 - 07/31/2021		Portable Handset	Page 5 of 137	

1.3.2 2.4 GHz Maximum Bluetooth and SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

							IEEE 8	02.11	(in dBm)							
				SIS	80								140			
Band		Antenna 1/2						- MIMO								
	b		g		n		ax (SU)	b (CDD + S	TBC)	g (CDD + ST	BC)	n (CDD+STBC	SDM)	ax (SU (CDD+STBC,	,
mum / al Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
	18.5 ch. 12: 6.0 ch. 13: 0.0	5.0	ch. 12: 6.0			5.0	ch. 12: 6.0	5.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	8.0	ch. 12: 9.0	
	mum / Il Power 2.45 GHz	b mum / Max l Power	b mum / Max Nom. 2.45 GHz ch. 12: 6.0 5.0	b g mum / Max Nom. Max 2.45 GHz ch. 12: 6.0 5.0 ch. 12: 6.0	Band b g mum / Il Power Max Nom. Max Nom. 2.45 GHz ch. 12: 6.0 5.0 ch. 12: 6.0 5.0	Max Nom. Max Nom. Max Nom. Max	Band Band Band Band Band Band Band Band	Band SISO Antenna 1/2 b g n ax (SU mum / I Power Max Nom. Max Nom. Max Nom. Max 2.45 GHz ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0	Band SISO Antenna 1/2 b g n ax (SU) mum / Max Nom. Max Nom. Max Nom. Max Nom. 1 Power 18.5 17.5 18.0 17.0 18.0 17.0 18.0 17.0 GHz ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0 5.0	Band Band Band Band Band Band Band Band	Band SISO Antenna 1/2 b g n ax (SU) (CDD+STBC) mum / Max Nom. Max Nom. Max Nom. Max Nom. Max Nom. 1 Power 18.5 17.5 18.0 17.0 18.0 17.0 18.0 17.0 21.5 20.5 GHz ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0 8.0	Band SISO Antenna 1/2 b g n ax (SU) (CDD + STBC) (CDD + STBC) (CDD + STBC) Mum / Il Power Max Nom. Max Nom. Max Nom. Max Nom. Max Nom. Max Nom. Max 2.45 GHz ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 9.0 8.0 ch. 12: 9.0	Band SISO Antenna 1/2 b g n ax (SU) b (CDD+STBC) (CDD+STBC) MII Power Max Nom. Max Nom. Max Nom. Max Nom. Max Nom. Max Nom. 1 Rower 18.5 17.5 18.0 17.0 18.0 17.0 18.0 17.0 21.5 20.5 21.0 20.0 GHz Ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 6.0 5.0 ch. 12: 9.0 8.0 ch. 12: 9.0 8.0	Band SISO Antenna 1/2 b g n ax (SU) (CDD+STBC) (CDD+STBC) (CDD+STBC) (CDD+STBC) MIMO Max Nom. Max	Band SISO Antenna 1/2 b g n ax (SU) (CDD+STBC) (CDD+STBC) (CDD+STBC, SDM) mum / Il Power Max Nom. 2.45 GHz ch. 12: 6.0 5.0 ch. 12: 9.0 8.0 ch. 12: 9	Band SISO Antenna 1/2 b g n ax (SU) (CDD+STBC) (CDD+STBC) (CDD+STBC, SDM) (CDD+STBC) MIMO Max Nom.

Mode		Single A	\ntenna	
Mode		Antenna 1	Antenna 2	
Bluetooth	Maximum	16.0	17.0	
(in dBm)	Nominal	15.0	16.0	
Bluetooth EDR	Maximum	13.5	14.5	
(in dBm)	Nominal	12.5	13.5	
Bluetooth LE 2Mbps	Maximum	6.	0	
(in dBm)	Nominal	5.	0	
Bluetooth LE 1Mbps, 125/500 kbps	Maximum	6.	0	
(in dBm)	Nominal	5.0		

FCC ID: A	A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Documen	t S/N:	Test Dates:	DUT Type:	Dogo 6 of 127
1M210610	00066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 6 of 137

1.3.3 2.4 GHz Reduced Bluetooth and WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

The below table is applicable in the following conditions:

• Simultaneous conditions with 5 GHz WLAN

								IEEE	802.11	11 (in dBm)										
					SIS	0														
Mode	Band			ı	Antenn	a 1/2							M	IMO						
		b		g		n ax (SU)			b g (CDD+STBC) (CDD+ST			BC)	n (CDD+STBC	ax (SL C, SDM) (CDD+STBC						
	mum / al Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.			
2.4 GHz WIFI	2.45 GHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0			
VVIFI		ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 9.0 ch. 13: 3.0	8.0 2.0	ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0	8.0 2.0			

The below table is applicable in the following conditions:

RCV Active

RCV active during simultaneous conditions with 5 GHz WLAN

		dolivo		,						in dBm)							
					SIS	0											
Mode	Band				Antenn	a 1/2							MII	МО			
		b		g		n ax (SU)				b (CDD + STI	b g (CDD + STBC) (CDD + STE			n (CDD+STBC,	SDM)	ax (SU) (CDD+STBC, SDM)	
-	mum / al Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz	2.45 GHz	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
WIFI		ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 6.0 ch. 13: 0.0		ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0		ch. 12: 9.0 ch. 13: 3.0	

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 7 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 7 of 137

The below table is applicable I the following conditions:

RCV Active

Mode		Single A	Antenna	
WIOGE		Antenna 1	Antenna 2	
Bluetooth	Maximum	10	.0	
(in dBm)	Nominal	9.	0	
Bluetooth EDR	Maximum	10	.0	
(in dBm)	Nominal	9.	0	
Bluetooth LE 2Mbps	Maximum	6.	0	
(in dBm)	Nominal	5.	0	
Bluetooth LE 1Mbps, 125/500 kbps	Maximum	6.	0	
(in dBm)	Nominal	5.0		

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 0 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 8 of 137

1.3.4 5 GHz Maximum SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

				•				IEE	E 802.	11 (in dBm)							
Mode	David				s	iso								МО			
iviode	Band				Ante	nna 1/2							IVIII	WIO			
		а		n		ac		ax (SU))	a (CDD + ST	BC)	n (CDD+STBC,	SDM)	ac (CDD+STBC,	SDM)	ax (SU) (CDD+STBC,	
	/ Nominal wer	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
	5200 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
		ch. 36: 16.5		ch. 36: 15.5		ch. 36: 15.5		ch. 36: 15.5	14.5	ch. 36: 19.5	18.5	ch. 36: 18.5	17.5	ch. 36: 18.5		ch. 36: 18.5	17.5
5 GHz WIFI	5300 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
(20MHz				ch. 64: 17.0		ch. 64: 17.0		ch. 64: 17.0	16.0			ch. 64: 20.0	19.0	ch. 64: 20.0		ch. 64: 20.0	
BW)	5500 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
	5000 MIL	40.0		ch. 100: 17.0				ch. 100: 17.0	16.0	04.0		ch. 100: 20.0		ch. 100: 20.0		ch. 100: 20.0	19.0
	5800 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
	5200 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
				ch. 38: 14.0	13.0	ch. 38: 14.0	13.0	ch. 38: 14.0	13.0			ch. 38: 17.0	16.0	ch. 38: 17.0	16.0	ch. 38: 17.0	16.0
5 GHz WIFI	5300 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
(40MHz				ch. 62: 15.0	14.0	ch. 62: 15.0	14.0	ch. 62: 15.0	14.0			ch. 62: 18.0	17.0	ch. 62: 18.0	17.0	ch. 62: 18.0	17.0
BW)	5500 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
				ch. 102: 15.5	14.5	ch. 102: 15.5	14.5	ch. 102: 15.5	14.5			ch. 102: 18.5	17.5	ch. 102: 18.5	17.5	ch. 102: 18.5	17.5
	5800 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
	5200 MHz					12.5	11.5	12.5	11.5					15.5	14.5	15.5	14.5
5 GHz WIFI	5300 MHz					13.0	12.0	13.0	12.0					16.0	15.0	16.0	15.0
(80MHz BW)	5500 MHz					16.0	15.0	16.0	15.0					19.0	18.0	19.0	18.0
	5800 MHz					ch. 106: 15.0 16.0	15.0	ch. 106: 15.0 16.0	14.0					ch. 106: 18.0 19.0	17.0	ch. 106: 18.0 19.0	17.0

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 0 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 9 of 137

1.3.5 5 GHz Reduced SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

The below table is applicable in the following conditions:

Simultaneous conditions with 2.4 GHz WLAN

				aitions w				IEEE	802.1	1 (in dBm)							
Mode	Band -				SI	so							NAII	MO			
iviode	Danu				Anter	nna 1/2							IVIII	VIO			
		а		n		ac		ax (SU)	a (CDD + STI	BC)	n (CDD+STBC,	SDM)	ac (CDD+STBC,	SDM)	ax (SU) (CDD+STBC,	
	/ Nominal wer	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
	5200 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WIFI	5300 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
(20MHz BW)	5500 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	5800 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	5200 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
5 GHz				ch. 38: 14.0	13.0	ch. 38: 14.0	13.0	ch. 38: 14.0	13.0			ch. 38: 17.0	16.0	ch. 38: 17.0	16.0	ch. 38: 17.0	16.0
WIFI (40MHz	5300 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
BW)	5500 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
	5800 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
	5200 MHz					12.5	11.5	12.5	11.5					15.5	14.5	15.5	14.5
5 GHz WIFI	5300 MHz					13.0	12.0	13.0	12.0					16.0	15.0	16.0	15.0
(80MHz BW)	5500 MHz					15.0	14.0	15.0	14.0					18.0	17.0	18.0	17.0
	5800 MHz					15.0	14.0	15.0	14.0					18.0	17.0	18.0	17.0

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 40 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 10 of 137

The below table is applicable in the following conditions:

RCV Active

• RCV active during simultaneous conditions with 2.4 GHz WLAN

				Simultai						l (in dBm)							
Mode	Band				SIS	SO							MII	MO			
ivioue	Danu				Anten	na 1/2							IVIII	VIO			
		а		n		ac		ax (Sl	J)	a (CDD + S1	BC)	n (CDD+STBC,	, SDM)	ac (CDD+STBC,	SDM)	ax (SU (CDD+STBC	
	/ Nominal wer	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
	5200 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI	5300 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
(20MHz BW)	5500 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5200 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI	5300 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
(40MHz BW)	5500 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5200 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
5 GHz WIFI	5300 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
(80MHz BW)	5500 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	5800 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 44 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 11 of 137

1.4 DUT Antenna Locations

A diagram showing the location of the device antennas for both open and closed configurations can be found in Appendix E. When the device is open, the overall dimensions of this device are $> 9 \times 5$ cm. Since the diagonal dimension of this device when open is > 160 mm and < 200 mm, it is considered a "phablet." and operates similar to a traditional portable handset. In the closed configuration, only a simple display/interaction of notifications occurs and overall dimensions are $< 9 \times 5$ cm. Therefore, when the device is closed, the only testing considered is for body-worn and hotspot.

Table 1-1
Device Edges/Sides for SAR Testing Open

Device Sides/Edges for SAR Testing								
Mode	Back	Front	Тор	Bottom	Right	Left		
GPRS 850	Yes	Yes	No	Yes	Yes	Yes		
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes		
UMTS 850	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 4 (AWS)	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 41	Yes	Yes	No	Yes	No	Yes		
2.4 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes		
2.4 GHz WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes		
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	Yes	No		
5 GHZ WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes		
Bluetooth Ant 1	Yes	Yes	Yes	No	Yes	No		
Bluetooth Ant 2	Yes	Yes	Yes	No	No	Yes		

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 42 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 12 of 137

Table 1-2
Device Edges/Sides for SAR Testing Closed

Device Sides/Edges for SAR Testing								
Mode	Back	Front	Тор	Bottom	Right	Left		
GPRS 850	Yes	Yes	No	Yes	Yes	Yes		
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes		
UMTS 850	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 4 (AWS)	Yes	Yes	No	Yes	Yes	Yes		
LTE Band 41	Yes	Yes	No	Yes	No	Yes		
2.4 GHz WLAN Ant 2	Yes	Yes	No	Yes	No	Yes		
2.4 GHz WLAN MIMO	Yes	Yes	No	Yes	Yes	Yes		
5 GHz WLAN Ant 1	Yes	Yes	No	Yes	Yes	No		
5 GHZ WLAN MIMO	Yes	Yes	No	Yes	Yes	Yes		
Bluetooth Ant 1	Yes	Yes	No	Yes	Yes	No		
Bluetooth Ant 2	Yes	Yes	No	Yes	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 941225 D06v02r01 Section III and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, U-NII-1, U-NII-2A, U-NII-2C operations are disabled.

1.5 Near Field Communications (NFC) Antenna

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

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 13 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 13 01 137

© 2021 PCTEST REV 21.4 09/11/201

1.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

Table 1-3
Simultaneous Transmission Scenarios

No. Capable Transmit Configuration		Officialicous	,a			Jonan	00
1 SSM voice + 2-6 Hit MAX And 1	No.	Capable Transmit Configuration	Head			Phablet	Notes
2 SM voice = 2 diet Buttooth Ard 1 Yes	1	CSM voice LECLIE W/J ANI Ant 1	Ves			Vac	
3 GSM voice + 2.4 GHz Bluetooth Art 2 Yes Yes Yes N/A Yes Albustooth Tethering is considered							A Divista eth Tethering is considered
4 SSM voice + 2.4 GHz WLAN MIMO							
SGM voice + 2 GHz WLAN MIMO							" Bluetooth Tethering is considered
SGM voice + 2.4 GHz Bluetooth And 1 = 2.4 GHz WLAN MINNO							
SGM voice + 2.4 GHz Bluetooth Art 1 = 7.5 GHz WJAN ART 2							
SGM wice + 2.4 GHz Bluetooth Art 1 = 5 GHz WLAN MIMO							A Divista ath Tathering is considered
SSM voice = 2.4 Gift Bluetooth Ant 2 + 2 Gift WLAN MIMO							
SSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MMO							
10 SM Voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	9		res	162	IN/A	res	" Bluetooth Tethering is considered
SSM volke = 2.4 GHz Bluetooth And 1 = 2.4 GHz WLAN And 1	10	WLAN MIMO	Yes^	Yes	·	Yes	^ Bluetooth Tethering is considered
SM volke + 2.4 Git Bluetooth Ant 1 + 2.4 Git WLAN Ant 2 + 5 Git WLAN Ant 1							
MUAN Ant 1	12		Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
14	13		Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
15 MITS - 2.4 GHz Bluetooth Ant 1	14		Yes	Yes	Yes	Yes	
16 MMTS - 2.4 GHz Buletooth Ant 2 Yes' Yes Yes Yes Yes							^ Bluetooth Tethering is considered
17							
18 UMTS + 2.6 GHz WLAN MIMO							
19 UMTS + 2.4 Gitz WLAN MIMO + SORtz WLAN MIMO Yes							
20							
21 UMTS + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO							^ Bluetooth Tethering is considered
22							
UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1	h						
24		UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz					-
25	24		VecA	Voc	VesA	Vec	A Divista eth Tethering is considered
UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz Yes							
Ves	25		res"	162	res	162	" Bluetooth Tethering is considered
28 LTE + 2.4 GHz Bluetooth Ant 1 Yes^ Yes Yes^ Yes Yes^ Yes A Bluetooth Tethering is considered 29 LTE + 2.4 GHz MLAN MIMO Yes Yes Yes Yes Yes Yes Yes Bluetooth Tethering is considered 30 LTE + 2.4 GHz WLAN MIMO Yes		WLAN Ant 1					^ Bluetooth Tethering is considered
29 LTE + 2.4 GHz Bluetooth Ant 2 Yes^ Yes							
1							
1							^ Bluetooth Tethering is considered
1	_						
33 LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 Yes^ Yes Yes^ Yes Yes Yes A Bluetooth Tethering is considered 34 LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO Yes^ Yes Yes Yes Yes A Bluetooth Tethering is considered 35 LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO Yes^ Yes Yes^ Yes A Bluetooth Tethering is considered 36 LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO Yes^ Yes Yes^ Yes^ A Bluetooth Tethering is considered 37 LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 Yes^ Yes Yes^ Yes A Bluetooth Tethering is considered 38 LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 Yes^ Yes Yes^ Yes A Bluetooth Tethering is considered 39 LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 Yes^ Yes Yes^ Yes A Bluetooth Tethering is considered 40 GPRS/EDGE + 5 GHz WLAN Ant 1 N/A N/A Yes Yes Yes^ Yes A Bluetooth Tethering is considered 41 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 42 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 43 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 44 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 45 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 46 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN MIMO N/A N/A Yes Yes Yes A Bluetooth Tethering is considered 47 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN MIMO N/A N/A Yes^ Yes A Bluetooth Tethering is considered 48 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 40 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 N/A N/A Yes^ Yes Bluetooth Tethering is considered 50 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered							
LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO Yes^ Yes Yes^ Yes A Bluetooth Tethering is considered							
35 LTE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO Tes 2 GHz WLAN Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Wes 2 Yes 3 Pluetooth Tethering is considered 36 MIMO 37 LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 Yes 4 Yes 4 Yes 5 Pluetooth Tethering is considered 38 LTE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 Yes 5 Yes 4 Yes 6 Bluetooth Tethering is considered 39 LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 Yes 6 Yes 7 Yes 9 Pluetooth Tethering is considered 40 GPRS/EDGE + 5 GHz WLAN Ant 1 N/A N/A Yes 7 Yes 8 Bluetooth Tethering is considered 41 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 N/A N/A Yes 9 Pluetooth Tethering is considered 42 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 N/A N/A Yes 9 Pluetooth Tethering is considered 43 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 N/A N/A Yes 9 Pluetooth Tethering is considered 44 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 N/A N/A Yes 9 Pluetooth Tethering is considered 45 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 N/A N/A Yes 9 Pluetooth Tethering is considered 46 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth N/A N/A Yes 9 Pluetooth Tethering is considered 47 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth N/A N/A Yes 9 Pluetooth Tethering is considered 48 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth N/A N/A Yes 9 Pluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth N/A N/A Yes 9 Pluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth N/A N/A Yes 9 Pluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth N/A N/A Yes 9 Pluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth N/A N/A Yes 9 Pluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth N/A N/A Yes 9 Pluetooth Tethering is considered 50 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth Ant 1 Pluetooth N/A N/A Pluetooth Tethering is considered 51 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 Pluetooth Ant 1 Pluetooth Ant 1 Pluetooth Pluetoring is considered 52 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1							ů
LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Yes^ Yes Yes^ Yes A Bluetooth Tethering is considered							
MIMO Yes	35		Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
38	36		Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	37	LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	38				Yes^		·
40 GPRS/EDGE + 5 GHz WLAN Ant 1	39			Yes	Yes^	Yes	
41 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1	40		N/A	N/A	Yes	Yes	
42 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 43 GPRS/EDGE + 2.4 GHz WLAN MIMO N/A N/A Yes Yes 44 GPRS/EDGE + 2.4 GHz WLAN MIMO N/A N/A Yes Yes 45 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN MIMO N/A N/A Yes Yes 46 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO N/A N/A Yes^ Yes A Bluetooth Tethering is considered 47 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO N/A N/A Yes^ Yes A Bluetooth Tethering is considered 48 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN MIMO N/A N/A Yes^ Yes A Bluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 2 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 50 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 51 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 52 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 53 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 54 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered							^ Bluetooth Tethering is considered
43 GPRS/EDGE + 2.4 GHz WLAN MIMO							
44 GPRS/EDGE + 5 GHz WLAN MIMO 45 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN MIMO 46 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN MIMO 47 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO 48 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN MIMO 40 N/A 41 Ves^ 42 Yes 43 Bluetooth Tethering is considered 44 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO 45 M/A 46 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO 47 Ves^ 48 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 49 GHz WLAN MIMO 50 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 51 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 52 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 53 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 54 MRS/A 55 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 56 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 57 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 58 MRS/A 59 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 50 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 51 MRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 51 MRS/EDGE + 2.4 GHZ Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A 52 MRS/EDGE + 2.4 GHZ Blu							Sideta oth retriering is collisiateled
45 GPRS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	_						
46 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 N/A N/A Yes^ Yes ABluetooth Tethering is considered 47 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO N/A N/A Yes^ Yes ABluetooth Tethering is considered 48 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO N/A N/A Yes^ Yes ABluetooth Tethering is considered 49 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 N/A N/A Yes^ Yes ABluetooth Tethering is considered 50 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 N/A N/A Yes^ Yes ABluetooth Tethering is considered 51 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 N/A N/A Yes^ Yes ABluetooth Tethering is considered 52 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 N/A N/A N/A Yes^ ABluetooth Tethering is considered	-						
47 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO N/A N/A Yes^ Yes A Bluetooth Tethering is considered A GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO N/A Yes^ Yes A Bluetooth Tethering is considered A Bluetooth Tethering is considered A GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered A Bluetooth Tethering is considered GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 N/A N/A Yes^ Yes A Bluetooth Tethering is considered		*					A Plustoath Tathering is considered
48 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO N/A N/A N/A Yes^ Yes A Bluetooth Tethering is considered GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 N/A N/A N/A Yes^ Yes A Bluetooth Tethering is considered SO GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 N/A N/A N/A Yes^ Yes A Bluetooth Tethering is considered GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered							
GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 N/A N/A N/A Yes^ Yes A Bluetooth Tethering is considered SPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 N/A N/A N/A Yes^ Yes A Bluetooth Tethering is considered GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 M/A N/A N/A Yes^ Yes A Bluetooth Tethering is considered	-	*					
49 GHz WLAN MIMO N/A Yes^ Yes A Bluetooth Tethering is considered 50 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1 N/A N/A Yes^ Yes A Bluetooth Tethering is considered 51 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 N/A N/A Yes^ Yes Bluetooth Tethering is considered 62 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 N/A N/A Yes^ Yes A Bluetooth Tethering is considered	70		11//	11/1	103	103	State out Tetricing is considered
51 GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1 N/A N/A Yes^ Yes ^ Bluetooth Tethering is considered 52 GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 N/A N/A Yes^ Yes ^ A Bluetooth Tethering is considered		GHz WLAN MIMO					=
GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 N/A N/A Vec A Bluetooth Tethering is considered							
	51	*	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
	52		N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered

- 1. All licensed modes share the same antenna path and cannot transmit simultaneously.
- 2. 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.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be post of @element	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:		Dogg 44 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset		Page 14 of 137
21 PCTEST				REV 21 4 M

- Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or bodyworn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
- 4. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, and U-NII2C were not evaluated for wireless router conditions.
- 5. This device supports 2x2 MIMO Tx for WLAN 802.11b/a/g/n/ac/ax. 802.11 b/a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. 2.4 GHz WLAN antenna can transmit independently or together when operating with MIMO.
- 6. This device supports VoWIFI.
- 7. This device supports Bluetooth Tethering.
- 8. This device supports VoLTE.

1.7 Miscellaneous SAR Test Considerations

When on the device dimensions when closed, hotspot SAR in the closed configuration was performed at 5mm per KDB Publication 941225 D06v02r01.

(A) WIFI/BT

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

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WIFI, only 2.4 GHz WLAN, 2.4 GHz Bluetooth 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 802.11ax with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 2 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm 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 for U-NII-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

This device supports channel 1-13 for 2.4 GHZ WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, default channels for SAR testing are determined per FCC KDB 248227 D01v02r02.

FCC ID: A3LSMF711JPN	Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 15 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 15 01 157

(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.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in Appendix H.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm 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 downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 46 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 16 of 137

1.8 **Guidance Applied**

- IEC/IEEE 62209-1528
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04v01r03 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 3)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)

1.9 **Device Serial Numbers**

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 11.

FCC ID: A3LSMF711JPN	Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 17 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 17 01 137

LTE INFORMATION

	L	TE Information				
Form Factor			Portable Handset			
Frequency Range of each LTE transmission band	LTE Band 12 (699.7 - 715.3 MHz)					
		LTE E	Band 13 (779.5 - 784.5	MHz)		
		LTE Ba	nd 5 (Cell) (824.7 - 848	.3 MHz)		
		LTE Band	4 (AWS) (1710.7 - 175	54.3 MHz)		
		LTE B	and 41 (2498.5 - 2687.5	5 MHz)		
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz					
	LTE Band 13: 5 MHz, 10 MHz					
		LTE Band 5 (0	Cell): 1.4 MHz, 3 MHz, 5	MHz, 10 MHz		
	I	_TE Band 4 (AWS): 1.4	MHz, 3 MHz, 5 MHz, 1	0 MHz, 15 MHz, 20 MH	l z	
		LTE Band 4	1: 5 MHz, 10 MHz, 15 N	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		23060)	707.5 (23095)		23130)	
LTE Band 13: 5 MHz		(23205)	782 (23230)	784.5 (23255)		
LTE Band 13: 10 MHz	N/A		782 (23230)	N/A		
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)		
LTE Band 5 (Cell): 3 MHz		(20415)	836.5 (20525)	847.5 (20635)		
LTE Band 5 (Cell): 5 MHz		(20425)	836.5 (20525)	846.5 (20625)		
LTE Band 5 (Cell): 10 MHz		20450)	836.5 (20525)	844 (20600)		
LTE Band 4 (AWS): 1.4 MHz		(19957)	1732.5 (20175)	1754.3 (20393)		
LTE Band 4 (AWS): 3 MHz		(19965)	1732.5 (20175)	1753.5 (20385)		
LTE Band 4 (AWS): 5 MHz		(19975)	1732.5 (20175)	1752.5 (20375)		
LTE Band 4 (AWS): 10 MHz		(20000)	1732.5 (20175)		(20350)	
LTE Band 4 (AWS): 15 MHz		(20025)	1732.5 (20175)		(20325)	
LTE Band 4 (AWS): 20 MHz		(20050)	1732.5 (20175)		(20300)	
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	\/		. UE Cat 20, UL UE Cat			
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			YES			
to be provided)						
A-MPR (Additional MPR) disabled for SAR Testing?			YES			
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations					
LTE Additional Information	MIMO featured as sh Uplink communication	support full CA features lown in Appendix H. All I ons are done on the PCO MIMO, elCIC, WIFI Offl	uplink communications and the communications are communications.	are identical to the Rele lease 15 Features are	ease 8 Specifications. not supported: Relay,	

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 40 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 18 of 137

© 2021 PCTEST REV 21.4 M

3

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1 SAR Mathematical Equation

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

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

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

where:

 σ = conductivity of the tissue-simulating material (S/m) ρ = mass density of the tissue-simulating material (kg/m³)

E = Total RMS electric field strength (V/m)

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

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 10 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 19 of 137

© 2021 PCTEST REV 21.4 M 09/11/2019

4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

- The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
- 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 was measured and used as a reference value.

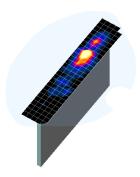


Figure 4-1 Sample SAR Area Scan

point

- 3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

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

	Maximum Area Scan Maximum Zoom Scan Resolution (mm) Resolution (mm)		Max	Minimum Zoom Scan		
Frequency	(Δx _{area} , Δy _{area})	(Δx _{200m} , Δy _{200m})	Uniform Grid	G	raded Grid	Volume (mm) (x,y,z)
	t died ydiedy	1 20011 7 200117	Δz _{zoom} (n)	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	, ,,, ,
≤ 2 GHz	≤ 15	≤8	≤5	≤4	≤ 1.5*∆z _{zoom} (n-1)	≥ 30
2-3 GHz	≤ 12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤3	≤2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤2	≤2	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 22

^{*}Also compliant to IEEE 1528-2013 Table 6

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 20 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 20 of 137

© 2021 PCTEST REV 21.4 N

5.1 EAR REFERENCE POINT

Figure 5-2 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 5-1. 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 5-1). 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].

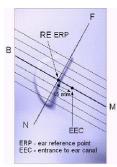


Figure 5-1 Close-Up Side view of ERP

5.2 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 5-3). The acoustic output was than 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 5-2 Front, back and side view of SAM Twin Phantom

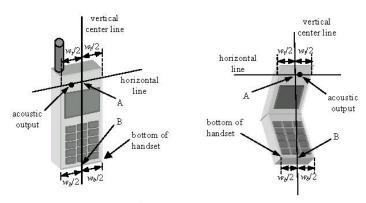


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 24 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 21 of 137

TEST CONFIGURATION POSITIONS

6.1 **Device Holder**

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

6.2 **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 6-1), 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 6-1 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.
- The phone was then rotated around the vertical centerline until the phone (horizontal line) was 4. symmetrical was 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 6-2).

6.3 Positioning for Ear / 15° Tilt

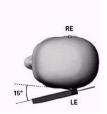
With the test device aligned in the "Cheek Position":

- 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 15degrees.
- The phone was then rotated around the horizontal line by 15 degrees. 2.
- 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 6-2).

	FCC ID: A3LSMF711JPN	Proud to be part of @ riement	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dags 22 of 427
	1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset		Page 22 of 137
© 202	1 PCTEST				REV 21.4 M







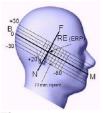


Figure 6-3
Side view w/ relevant markings

Figure 6-2 Front, Side and Top View of Ear/15º Tilt Position

6.4 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 D04v01r03. 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.

6.5 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 6-4). Per FCC KDB Publication 648474 D04v01r03, 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 D01v06 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

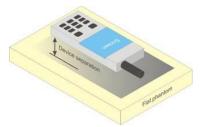


Figure 6-4
Sample Body-Worn Diagram

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.

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

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 22 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 23 of 137

© 2021 PCTEST REV 21.4 N

contain metallic components are supplied with the device, the device is tested with only the accessory that 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.

6.6 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 D01v06 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D01v06, 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.

6.7 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 x W \geq 9 cm x 5 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 D01v06 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.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 24 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Faye 24 01 137

REV 21.4 I

6.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 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 D04v01r03 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 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.

6.9 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close 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 nonreduced 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 Appendix G.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 25 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 25 of 137

© 2021 PCTEST REV 21.4 M 09/11/2019

7 RF EXPOSURE LIMITS

7.1 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.

7.2 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 7-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

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

- 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.

FCC ID: A3LSMF711JPN	Proud to be part of & element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 26 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 26 01 137

© 2021 PCTEST REV 21.4 M 09/11/2019

8 FCC MEASUREMENT PROCEDURES

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

8.1 **Measured and Reported SAR**

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

8.2 **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.

8.3 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.

8.4 SAR Measurement Conditions for UMTS

8.4.1 **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.

	FCC ID: A3LSMF711JPN	Proud to be part of @ riement	SAR EVALUATION REPORT	AMSUNG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Dags 27 of 427
	1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset		Page 27 of 137
© 202	1 PCTEST				REV 21.4 M

8.4.2 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.

8.4.3 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.

8.4.4 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.

8.4.5 SAR Measurements with Rel 6 HSUPA

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

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

8.5 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).

8.5.1 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.

8.5.2 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.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 20 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 28 of 137
24 DOTECT			DEV 24 4 M

21 PCTEST REV 21.4 \\ 0.9/11/201

8.5.3 A-MPR

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

8.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.</p>

8.5.5 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.

FCC ID: A3LSMF711JPN	Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogo 20 of 127	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 29 of 137	

8.5.6 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 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.

8.6 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.

8.6.1 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.

8.6.2 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.

8.6.3 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.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Page 30 of 137	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 30 01 137	

© 2021 PCTEST REV 21.4 I

8.6.4 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.

8.6.5 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 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.

8.6.6 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. 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.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogg 24 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 31 of 137	

021 PCTEST REV 21.4 I 09/11/201

8.6.7 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.

When the reported SAR is \leq 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 \leq 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 8.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.8 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.

8.6.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogg 22 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 32 of 137	

21 PCTEST REV 21.4 N 09/11/2019

9.1 GSM Conducted Powers

Table 9-1
Maximum Conducted Power

		IV	laximum B		aged Out		•			
		Voice			DGE Data MSK)		EDGE Data (8-PSK)			
Band	Channel	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
	128	32.70	32.68	31.88	29.49	27.75	27.05	25.41	23.47	22.40
GSM 850	190	32.62	32.62	31.72	29.57	27.48	26.91	25.44	23.33	22.14
	251	32.12	32.19	31.53	29.39	27.22	26.74	25.05	23.02	22.04
	512	28.86	28.84	27.77	26.36	24.29	24.54	23.68	21.53	20.63
GSM 1900	661	28.90	28.97	27.94	26.32	24.36	24.81	23.91	21.68	20.68
	810	28.68	28.71	27.67	25.79	23.99	24.52	23.48	21.44	20.50

		Calcula	ted Maxim	num Frame	e-Average	d Output	Power			
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	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
	128	23.50	23.48	25.69	25.06	24.57	17.85	19.22	19.04	19.22
GSM 850	190	23.42	23.42	25.53	25.14	24.30	17.71	19.25	18.90	18.96
	251	22.92	22.99	25.34	24.96	24.04	17.54	18.86	18.59	18.86
	512	19.66	19.64	21.58	21.93	21.11	15.34	17.49	17.10	17.45
GSM 1900	661	19.70	19.77	21.75	21.89	21.18	15.61	17.72	17.25	17.50
	810	19.48	19.51	21.48	21.36	20.81	15.32	17.29	17.01	17.32
GSM 850	Frame	22.80	22.80	24.81	24.57	23.82	17.30	18.31	18.07	18.32
GSM 1900	Avg.Targets:	19.80	19.80	21.31	21.07	20.32	16.30	16.81	16.57	16.82

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogg 22 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 33 of 137	

REV 21.4 M 09/11/2019

Table 9-2 **Reduced Conducted Powers- Hotspot Mode Active**

	•	Maxin	•		d Output I					
			GPRS/EL (GN	OGE Data NSK)		EDGE Data (8-PSK)				
Band	Channel	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	
	128	31.41	30.65	29.00	26.81	26.76	24.50	22.50	21.49	
GSM 850	190	31.43	30.45	28.12	26.82	26.52	24.40	22.50	21.50	
	251	31.44	30.61	28.80	26.52	26.40	24.03	22.30	21.20	
	512	23.44	22.31	20.82	18.90	20.20	18.43	16.60	15.62	
GSM 1900	661	23.76	22.62	21.02	19.20	21.00	18.74	17.00	15.98	
	810	23.66	22.72	20.98	18.99	20.99	18.63	16.99	16.00	

	С	alculated	Maximum	Frame-Av	eraged Ou	Itput Pow	er			
			GPRS/EL (GN	OGE Data MSK)		EDGE Data (8-PSK)				
Band	Channel	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	
	128	22.21	24.46	24.57	23.63	17.56	18.31	18.07	18.31	
GSM 850	190	22.23	24.26	23.69	23.64	17.32	18.21	18.07	18.32	
	251	22.24	24.42	24.37	23.34	17.20	17.84	17.87	18.02	
	512	14.24	16.12	16.39	15.72	11.00	12.24	12.17	12.44	
GSM 1900	661	14.56	16.43	16.59	16.02	11.80	12.55	12.57	12.80	
	810	14.46	16.53	16.55	15.81	11.79	12.44	12.56	12.82	
GSM 850	Frame	21.80	23.81	23.57	22.82	16.80	17.31	17.07	17.32	
GSM 1900	Avg.Targets:	14.80	16.31	16.07	15.32	11.80	12.31	11.57	11.82	

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Domo 24 of 127	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 34 of 137	

© 2021 PCTEST

Table 9-3 Reduced Conducted Powers- Grip Sensor or Earlack Mode Active

Band	Channel	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
	512	25.50	25.68	24.53	22.88	21.06	22.35	20.45	18.52	17.41
GSM 1900	661	26.04	25.92	24.56	22.72	20.95	23.44	21.36	18.95	17.75
	810	25.94	25.44	24.41	22.73	20.58	23.35	21.28	18.97	17.70

	Calculated Maximum Frame-Averaged Output Power												
		Voice	GPRS/EDGE Data (GMSK)					EDGE Data (8-PSK)					
Band	Channel	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			
	512	16.30	16.48	18.34	18.45	17.88	13.15	14.26	14.09	14.23			
GSM 1900	661	16.84	16.72	18.37	18.29	17.77	14.24	15.17	14.52	14.57			
	810	16.74	16.24	18.22	18.30	17.40	14.15	15.09	14.54	14.52			
GSM 1900	Frame Avg.Targets:	16.80	16.80	18.31	18.07	17.32	13.80	14.31	13.57	13.82			

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 25 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 35 of 137

Note:

- 1. 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.
- 2. 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.
- 3. 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: 33 (Max 4 Tx uplink slots) EDGE Multislot class: 33 (Max 4 Tx uplink slots)

DTM Multislot Class: N/A



Figure 9-1
Power Measurement Setup

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 26 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 36 of 137

9.2 **UMTS Conducted Powers**

Table 9-4 **Maximum Conducted Power**

3GPP Release	Mode	3GPP 34.121 Subtest	Cellu	lar Band [dBm]	3GPP MPR
Version		Subtest	4132	4183	4233	լսեյ
99	WCDMA	12.2 kbps RMC	24.27	24.23	24.00	-
99	VVCDIVIA	12.2 kbps AMR	24.25	24.25	24.03	-
6		Subtest 1	23.42	23.40	23.17	0
6	HSDPA	Subtest 2	23.39	23.38	23.14	0
6		Subtest 3	22.88	22.89	22.65	0.5
6		Subtest 4	22.89	22.88	22.64	0.5
6		Subtest 1	23.37	23.38	23.15	0
6		Subtest 2	21.38	21.37	21.15	2
6	HSUPA	Subtest 3	22.38	22.37	22.15	1
6		Subtest 4	21.39	21.37	21.14	2
6		Subtest 5	23.39	23.37	23.15	0

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 27 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 37 of 137

Table 9-5
Reduced Conducted Powers- Hotspot Mode Active

3GPP Release	Mode	3GPP 34.121 Subtest	Cellu	lar Band [dBm]	3GPP MPR [dB]
Version		Oubtest	4132	4183	4233	[ub]
99	WCDMA	12.2 kbps RMC	23.73	23.53	23.32	-
99	VVCDIVIA	12.2 kbps AMR	23.70	23.56	23.32	-
6		Subtest 1	22.07	21.89	21.62	0
6	HSDPA	Subtest 2	22.08	21.92	21.63	0
6	TIODEA	Subtest 3	21.59	21.43	21.13	0.5
6		Subtest 4	21.58	21.41	21.16	0.5
6		Subtest 1	22.89	22.72	22.44	0
6		Subtest 2	20.89	20.71	20.44	2
6	HSUPA	Subtest 3	21.87	21.70	21.43	1
6		Subtest 4	20.88	20.72	20.44	2
6		Subtest 5	22.89	22.72	22.45	0

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 9-2 Power Measurement Setup

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Domo 20 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 38 of 137

9.3 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 Appendix F.

9.3.1 LTE Band 12

Table 9-6
LTE Band 12 Maximum Conducted Powers - 10 MHz Bandwidth

	LTE Band 12 10 MHz Bandwidth					
			Mid Channel			
Modulation	RB Size	RB Offset	23095 (707.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
			Conducted Power	00.1 [02]		
			[dBm]			
	1	0	23.29		0	
	1	25	23.28	0	0	
	1	49	23.27		0	
QPSK	25	0	22.40		1	
	25	12	22.38	0-1	1	
	25	25	22.30		1	
	50	0	22.27		1	
	1	0	22.34		1	
	1	25	22.40	0-1	1	
	1	49	22.48		1	
16QAM	25	0	21.41		2	
	25	12	21.48	0-2	2	
	25	25	21.38	0-2	2	
	50	0	21.34		2	
	1	0	21.44		2	
	1	25	21.72	0-2	2	
	1	49	21.46		2	
64QAM	25	0	20.35		3	
	25	12	20.45	0.2	3	
	25	25	20.40	0-3	3	
	50	0	20.29		3	

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

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 20 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 39 of 137

© 2021 PCTEST REV 21.4 M 09/11/2019

9.3.2 LTE Band 13

Table 9-7 LTE Band 13 Maximum Conducted Powers - 10 MHz Bandwidth

	LTE Band 13 10 MHz Bandwidth					
			Mid Channel			
Modulation	RB Size	RB Size RB Offset	23230 (782.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
			Conducted Power [dBm]	JOIT [ub]		
	1	0	23.18		0	
	1	25	23.02	0	0	
	1	49	23.15		0	
QPSK	25	0	22.30		1	
	25	12	22.36	0-1	1	
	25	25	22.37		1	
	50	0	22.29		1	
	1	0	22.09		1	
	1	25	22.05	0-1	1	
	1	49	22.07		1	
16QAM	25	0	21.43		2	
	25	12	21.53	0-2	2	
	25	25	21.46	0-2	2	
	50	0	21.40		2	
	1	0	21.42		2	
	1	25	21.58	0-2	2	
	1	49	21.53		2	
64QAM	25	0	20.34		3	
	25	12	20.47	0-3	3	
	25	25	20.46	0-3	3	
	50	0	20.26	1	3	

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the Administration	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 40 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 40 of 137

9.3.3 LTE Band 5

Table 9-8
LTE Band 5 (Cell) Maximum Conducted Powers - 10 MHz Bandwidth

	LTE Band 5 (Cell) Maximum Conducted Fowers - 10 Minz Bandwidth						
			10 MHz Bandwidth Mid Channel				
Modulation	RB Size	RB Offset	20525 (836.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
			Conducted Power [dBm]				
	1	0	25.08		0		
	1	25	25.11	0	0		
ı	1	49	25.06		0		
QPSK	25	0	24.16		1		
	25	12	24.23	0-1	1		
	25	25	24.20		1		
	50	0	24.17		1		
	1	0	24.57	0-1	1		
	1	25	24.59		1		
	1	49	24.53		1		
16QAM	25	0	23.23		2		
	25	12	23.32	0-2	2		
	25	25	23.25	0-2	2		
	50	0	23.16		2		
	1	0	23.12		2		
	1	25	23.18	0-2	2		
	1	49	23.10		2		
64QAM	25	0	22.25		3		
	25	12	22.36	0-3	3		
	25	25	22.29	0-3	3		
	50	0	22.18		3		

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

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 44 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 41 of 137

Table 9-9
LTE Band 5 (Cell) Reduced Conducted Powers- Hotspot Mode Active - 10 MHz Bandwidth

	LTE Band 5 (Cell) Reduced Conducted Powers- Hotspot Mode Active - 10 MHz Bandwidth LTE Band 5 (Cell) 10 MHz Bandwidth						
			Mid Channel				
Modulation	RB Size	RB Offset	20525 (836.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
			Conducted Power				
			[dBm]				
	1	0	23.14		0		
	1	25	23.09	0	0		
	1	49	23.13		0		
QPSK	25	0	23.15		0		
	25	12	23.04	0-1	0		
	25	25	23.17		0		
	50	0	23.10		0		
	1	0	23.62	0-1	0		
	1	25	23.45		0		
	1	49	23.46		0		
16QAM	25	0	22.98		0.3		
	25	12	22.88	0-2	0.3		
	25	25	22.96	0-2	0.3		
	50	0	22.85		0.3		
	1	0	23.09		0.3		
	1	25	23.12	0-2	0.3		
	1	49	23.08		0.3		
64QAM	25	0	22.00		1.3		
	25	12	21.99	0.3	1.3		
	25	25	21.96	0-3	1.3		
	50	0	21.91		1.3		

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

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 42 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 42 of 137

© 2021 PCTEST

9.3.4 LTE Band 4

Table 9-10
LTE Band 4 (AWS) Maximum Conducted Powers - 20 MHz Bandwidth

		. ()	LTE Band 4 (AWS) 20 MHz Bandwidth	Weis - 20 Minz Balluwi	
			Mid Channel		
Modulation	RB Size	RB Offset	20175 (1732.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]	JOIT [ub]	
	1	0	22.91		0
	1	50	23.12	0	0
	1	99	22.82		0
QPSK	50	0	22.15		1
	50	25	22.29	0-1	1
	50	50	22.04	0-1	1
	100	0	22.10		1
	1	0	22.43		1
	1	50	22.60	0-1	1
	1	99	22.43		1
16QAM	50	0	21.16		2
	50	25	21.26	0-2	2
	50	50	21.08	0-2	2
	100	0	21.14		2
	1	0	21.32		2
	1	50	21.53	0-2	2
	1	99	21.21		2
64QAM	50	0	20.27		3
	50	25	20.32	0-3	3
	50	50	20.18	0-3	3
	100	0	20.14		3

Note: LTE Band 4 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dage 42 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 43 of 137

Table 9-11
LTE Band 4 (AWS) Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

		344334	LTE Band 4 (AWS) 20 MHz Bandwidth	OUT WIDGE ACTIVE - 20 IV	
			Mid Channel		
Modulation	RB Size	RB Offset	20175 (1732.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]	0011 [db]	
	1	0	18.52		0
	1	50	18.19	0	0
	1	99	18.02		0
QPSK	50	0	18.37		0
	50	25	18.51	0-1	0
	50	50	18.62	0-1	0
	100	0	18.51		0
	1	0	18.54		0
	1	50	18.74	0-1	0
	1	99	18.74		0
16QAM	50	0	18.41		0
	50	25	18.47	0-2	0
	50	50	18.57	0-2	0
	100	0	18.56		0
	1	0	18.46		0
	1	50	18.63	0-2	0
	1	99	18.52		0
64QAM	50	0	18.49		0
	50	25	18.51	0-3	0
	50	50	18.54	0-3	0
	100	0	18.29		0

Note: LTE Band 4 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

FCC ID: A3LSMF711JPN		SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogg 44 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 44 of 137	

Table 9-12 LTE Band 4 (AWS) Reduced Conducted Powers - Grip Sensor and/or Earjack Mode Active - 20 MHz Bandwidth

			LTE Band 4 (AWS) 20 MHz Bandwidth		
			Mid Channel		
Modulation	RB Size	RB Offset	20175 (1732.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power	SGFF [db]	
			[dBm]		
	1	0	19.95		0
	1	50	19.99	0	0
	1	99	19.60		0
QPSK	50	0	20.00		0
	50	25	20.10	0-1	0
	50	50	20.01	0-1	0
	100	0	19.97		0
	1	0	19.98		0
	1	50	20.39	0-1	0
	1	99	20.09		0
16QAM	50	0	20.07		0
	50	25	20.19	0-2	0
	50	50	20.03	0-2	0
	100	0	20.02		0
	1	0	20.02		0
	1	50	20.28	0-2	0
	1	99	20.06		0
64QAM	50	0	20.00		0
	50	25	20.21	0-3	0
	50	50	20.06	U-3	0
	100	0	20.04		0

Note: LTE Band 4 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

FCC ID: A3LSMF711JPN		SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogg 45 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 45 of 137	

9.3.5 LTE Band 41

Table 9-13
LTE Band 41 Maximum Conducted Powers - 20 MHz Bandwidth

			Dana Ti W	iaxiiiiuiii Co	LTE Band 41	VVCI 3 20 IVII	iz Dallawic	4111	
				2	0 MHz Bandwidth				
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel		
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)			41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
				Co					
	1	0	23.73	24.19	23.85	24.26	24.36		0
	1	50	23.83	24.13	24.26	24.54	24.86	0	0
	1	99	24.00	24.13	24.10	24.16	24.74		0
QPSK	50	0	22.73	23.17	23.19	23.49	23.71		1
	50	25	22.95	23.24	23.36	23.59	23.87	0-1	1
	50	50	22.96	23.13	23.34	23.54	23.94	0-1	1
	100	0	22.86	23.14	23.27	23.49	23.78		1
	1	0	22.90	23.37	23.36	23.41	23.45		1
	1	50	22.97	23.23	23.37	23.74	23.96	0-1	1
	1	99	23.10	23.29	23.41	23.31	23.85		1
16QAM	50	0	21.76	22.17	22.24	22.58	22.72		2
	50	25	21.95	22.29	22.39	22.67	22.87	0-2	2
	50	50	21.98	22.19	22.38	22.61	22.96		2
	100	0	21.88	22.21	22.28	22.54	22.80		2
	1	0	21.77	22.27	21.86	22.26	22.33		2
	1	50	21.90	22.23	22.31	22.64	22.91	0-2	2
	1	99	22.02	22.22	22.07	22.28	22.78		2
64QAM	50	0	20.81	21.28	21.26	21.64	21.79		3
	50	25	21.03	21.36	21.43	21.73	21.97	0-3	3
	50	50	21.04	21.23	21.39	21.66	21.98	0.3	3
	100	0	20.91	21.22	21.31	21.57	21.83		3

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dago 46 of 127	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 46 of 137	

Table 9-14
LTE Band 41 Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

					LTE Band 41 0 MHz Bandwidth			III Ballawia	
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel		
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
				Co					
	1	0	18.20	18.87	18.38	18.86	18.89		0
	1	50	18.13	18.89	18.68	19.14	19.42	0	0
	1	99	18.35	18.82	18.37	18.81	19.38		0
QPSK	50	0	18.28	18.94	18.71	19.16	19.31		0
	50	25	18.37	18.96	18.77	19.23	19.44	0-1	0
	50	50	18.37	18.86	18.80	19.12	19.46] 0-1	0
	100	0	18.32	18.92	18.77	19.16	19.34		0
	1	0	18.45	18.62	18.45	18.96	18.87		0
	1	50	18.33	18.63	18.80	19.28	19.45	0-1	0
	1	99	18.45	18.60	18.57	18.80	19.24		0
16QAM	50	0	18.26	18.81	18.72	19.15	19.32		0
	50	25	18.40	18.89	18.86	19.21	19.41	0-2	0
	50	50	18.35	18.74	18.79	19.20	19.46	J 0-2	0
	100	0	18.35	18.84	18.80	19.04	19.46		0
	1	0	18.06	18.64	18.18	18.53	18.79		0
	1	50	18.10	18.52	18.45	18.93	19.13	0-2	0
	1	99	18.11	18.53	18.21	18.46	19.04		0
64QAM	50	0	18.34	18.84	18.81	19.21	19.44		0
	50	25	18.49	18.94	18.88	19.27	19.50	0-3	0
	50	50	18.45	18.86	18.86	19.19	19.50		0
	100	0	18.40	18.88	18.83	19.07	19.45		0

Table 9-15

LTE Band 41 Reduced Conducted Powers - Grip Sensor and/or Earjack Mode Active - 20 MHz Bandwidth

				. 2	LTE Band 41 0 MHz Bandwidth				
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel		
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 41055 (2593.0 MHz) (2636.5 MHz)		41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
				Co					
	1	0	20.67	21.43	21.02	21.24	21.40		0
	1	50	20.76	21.42	21.26	21.38	21.34	0	0
	1	99	21.00	21.36	20.98	20.87	21.20		0
QPSK	50	0	20.71	21.49	21.31	21.43	21.25		0
	50	25	20.90	21.58	21.42	21.44	21.44	0-1	0
	50	50	20.92	21.41	21.37	21.30	21.49	0-1	0
	100	0	20.80	21.40	21.32	21.34	21.35		0
	1	0	20.89	21.56	21.00	21.31	20.92		0
	1	50	20.86	21.43	21.31	21.44	21.43	0-1	0
	1	99	20.97	21.48	21.04	20.80	21.29		0
16QAM	50	0	20.73	21.49	21.34	21.46	21.32		0
	50	25	20.94	21.58	21.43	21.44	21.45	0-2	0
	50	50	20.96	21.43	21.36	21.31	21.50		0
	100	0	20.87	21.47	21.34	21.37	21.40		0
	1	0	20.44	21.30	20.77	21.01	20.68		0
	1	50	20.57	21.20	21.07	21.14	21.15	0-2	0
	1	99	20.72	21.13	20.76	20.62	20.99		0
64QAM	50	0	20.75	21.56	21.38	21.52	21.38		0
	50	25	20.96	21.64	21.49	21.53	21.51	0-3	0
	50	50	21.00	21.47	21.42	21.39	21.55	0.5	0
	100	0	20.87	21.46	21.34	21.39	21.40		0

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogg 47 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 47 of 137	

9.3.6 LTE Band 41 LTE Uplink Carrier Aggregation Conducted Powers

Table 9-16
LTE Uplink Carrier Aggregation Maximum Conducted Powers - 20 MHz Bandwidth

					33 3	,									
			PCC				SCC						Power		
PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]		SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.69	24.36

Table 9-17

LTE Uplink Carrier Aggregation Reduced Conducted Powers - Hotspot Mode Active - 20 MHz Bandwidth

	PCC					SCC					Power					
PCC	Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	Frequency	Modulation	PCC UL#	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	Frequency	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	Power
				[MHz]							[MHz]					(dBm)
LTE	B41	20	40620	2593.0	QPSK	1	0	LTE B41	20	40422	2573.2	QPSK	1	99	18.65	18.38

Table 9-18

LTE Uplink Carrier Aggregation Reduced Conducted Powers - Grip Sensor and/or Earjack Mode Active - 20 MHz Bandwidth

	PCC					SCC					Power				
PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	21.59	21.43

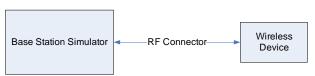


Figure 9-3
Power Measurement Setup

FCC ID: A3LSMF711JPN		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 40 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 48 of 137

9.4 **WLAN Conducted Powers**

Table 9-19 2.4 GHz WLAN Maximum Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]									
			IEEE Transm	nission Mode					
Freq [MHz]	Channel	el 802.11b 802.11g		802.11n	802.11ax				
		Average	Average	Average	Average				
2412	1	18.23	17.67	17.81	17.36				
2437	6	18.40	17.78	17.39	17.34				
2462	11	18.37	17.38	17.56	17.89				

Table 9-20 2.4 GHz WLAN Maximum Average RF Power - MIMO

2	2.4GHz 802.11b Conducted Power [dBm]								
Freq [MHz]	Channel	ANT1	ANT2	MIMO					
2412	1	18.49	18.23	21.37					
2437	6	18.06	18.40	21.24					
2462	11	18.21	18.37	21.30					

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 49 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 49 01 137

Table 9-21 5 GHz WLAN Maximum Average RF Power - Ant 1

	5GHz	(20MHz) Cond	ducted Power	[dBm]		
			IEEE Transm	nission Mode		
Freq [MHz]	Channel	nel 802.11a 802.11n		802.11ac	802.11ax	
		Average	Average	Average	Average	
5180	36	16.12	15.16	15.47	15.32	
5200	40	17.60	17.44	17.56	17.87	
5220	44	17.54	17.72	17.74	17.66	
5240	48	17.36	17.21	17.34	17.67	
5260	52	17.45	17.33	17.35	17.72	
5280	56	17.47	17.32	17.47	17.55	
5300	60	17.66	17.54	17.43	17.42	
5320	64	17.49	16.23	16.56	16.32	
5500	100	17.83	16.74	16.88	16.87	
5600	120	17.92	17.82	17.82	17.92	
5620	124	17.77	17.77	17.62	17.99	
5720	144	17.78	17.52	17.77	17.64	
5745	149	17.87	17.89	17.92	17.99	
5785	157	17.59	17.52	17.55	17.84	
5825	165	17.86	17.66	17.74	17.82	

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 50 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 50 of 137

Table 9-22 5 GHz WLAN Maximum Average RF Power - MIMO

		2.11n Conduc		
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	15.16	15.17	18.18
5200	40	17.44	17.88	20.68
5220	44	17.72	17.97	20.86
5240	48	17.21	17.97	20.62
5260	52	17.33	17.90	20.63
5280	56	17.32	17.88	20.62
5300	60	17.54	17.67	20.62
5320	64	16.23	16.95	19.62
5520	104	17.56	17.56	20.57
5600	120	17.82	17.87	20.86
5620	124	17.77	17.81	20.80
5720	144	17.52	17.36	20.45
5745	149	17.89	17.76	20.84
5785	157	17.52	17.52	20.53
5825	165	17.66	17.39	20.54

FCC ID: A3LSMF711JPN		SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 54 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 51 of 137

Table 9-23
2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active and/or RCV active During
Conditions with 5 GHz WLAN – Ant 2

	2.4GHz Conducted Power [dBm]								
IEEE Transmission Mode									
Freq [MHz]	Channel	802.11b	802.11g	802.11n	802.11ax				
		Average	Average	Average	Average				
2412	1	12.64	12.43	12.84	12.54				
2437	6	12.99	12.58	12.63	12.47				
2462	11	12.85	12.49	12.77	12.89				

Table 9-24
2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active and/or RCV active During
Conditions with 5 GHz WLAN – MIMO

2.4GHz 802.11n Conducted Power [dBm]							
Freq [MHz]	Channel	ANT1	ANT2	MIMO			
2412	1	12.59	12.84	15.73			
2437	6	12.65	12.63	15.65			
2462	11	12.84	12.63	15.75			

Table 9-25
5 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During
Conditions with 2.4 GHz WLAN- Ant 1

5GHz (80MHz) Conducted Power [dBm]					
		IEEE Transm	nission Mode		
Freq [MHz]	Channel	802.11ac	802.11ax		
		Average	Average		
5210	42	10.50	10.52		
5290	58	10.69	10.29		
5530	106	10.86	10.49		
5610	122	10.59	10.97		
5690	138	10.96	10.91		
5775	155	10.85	10.71		

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 52 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 52 of 137

Table 9-26
5 GHz WLAN Reduced Average RF Power for Conditions with RCV active and/or RCV active During
Conditions with 2.4 GHz WLAN – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]						
Freq [MHz]] Channel ANT1 ANT2 MIN					
5210	42	10.50	10.74	13.63		
5290	58	10.69	10.95	13.83		
5530	106	10.86	10.82	13.85		
5610	122	10.59	10.76	13.69		
5690	138	10.96	10.73	13.86		
5775	155	10.85	10.67	13.77		

Table 9-27
5 GHz WLAN Reduced Average RF Power during Conditions with 2.4 GHz WLAN – Ant 1

5GHz (40MHz) Conducted Power [dBm]						
		IEEE Transmission Mode				
Freq [MHz]	Channel	802.11n	802.11ac	802.11ax		
		Average	Average	Average		
5190	38	13.20	13.82	13.45		
5230	46	14.53	14.76	14.68		
5270	54	14.48	14.56	14.75		
5310	62	14.43	14.44	14.65		

5GHz (80MHz) Conducted Power [dBm]						
		IEEE Transmission Mode				
Freq [MHz]	Channel	802.11ac	802.11ax			
		Average	Average			
5530	106	14.75	14.89			
5610	122	14.62	14.58			
5690	138	14.74	14.63			
5775	155	14.69	14.64			

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo F2 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 53 of 137

Table 9-28
5 GHz WLAN Reduced Average RF Power during Conditions with 2.4 GHz WLAN – MIMO

5GHz (40MHz) 802.11n Conducted Power [dBm]						
Freq [MHz]	Channel	ANT1	ANT2	MIMO		
5190	38	13.70	13.82	16.77		
5230	46	14.47	14.80	17.65		
5270	54	14.52	14.66	17.60		
5310	62	14.39	14.45	17.43		
5GH	z (80MHz) 802	2.11ac Condu	cted Power [d	IBm]		
Freq [MHz] Channel ANT1 ANT2 MIMO						
Freq [MHz]	Channel	ANT1	ANT2	MIMO		
5530	Channel 106	ANT1 14.23	ANT2 14.69	MIMO 17.48		
5530	106	14.23	14.69	17.48		

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.

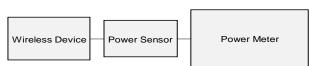


Figure 9-4
Power Measurement Setup

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 54 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 54 of 137

9.5 **Bluetooth Conducted Powers**

Bluetooth Antenna 1 Maximum Average RF Power

Bluetooth Antenna i Maximum Average RF Power							
Frequency	Data Rate	Rate Mod Power Channel		_	nducted wer		
[MHz]	[Mbps]	Wiod.	Scheme No.		[dBm]	[mW]	
2402	1.0	GFSK	ePA	0	14.18	26.182	
2441	1.0	GFSK	ePA	39	15.43	34.914	
2480	1.0	GFSK	ePA	78	14.13	25.882	
2402	2.0	π/4-DQPSK	ePA	0	12.16	16.444	
2441	2.0	π/4-DQPSK	ePA	39	12.88	19.409	
2480	2.0	π/4-DQPSK	ePA	78	12.16	16.444	
2402	3.0	8DPSK	ePA	0	11.88	15.417	
2441	3.0	8DPSK	ePA	39	12.93	19.634	
2480	3.0	8DPSK	ePA	78	11.92	15.560	

Table 9-30 Bluetooth Antenna 2 Maximum Average RF Power

Frequency	Data Rate	Mod.	Power	Channel	_	nducted wer
[MHz]	[Mbps]	Wiod.	Scheme	No.	[dBm]	[mW]
2402	1.0	GFSK	ePA	0	14.97	31.405
2441	1.0	GFSK	ePA	39	16.61	45.814
2480	1.0	GFSK	ePA	78	15.66	36.813
2402	2.0	π/4-DQPSK	ePA	0	12.40	17.378
2441	2.0	π/4-DQPSK	ePA	39	13.96	24.889
2480	2.0	π/4-DQPSK	ePA	78	12.31	17.022
2402	3.0	8DPSK	ePA	0	12.40	17.378
2441	3.0	8DPSK	ePA	39	14.29	26.853
2480	3.0	8DPSK	ePA	78	13.33	21.528

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ «General	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 55 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 55 01 137

Table 9-31 Bluetooth Antenna 1 BT Reduced RCV Active Conducted Power

Frequen	Data Rate	Mod.	Power	Channel	Avg Cor Pov	nducted wer
cy [MHz]	[Mbps]	WOU.	Scheme No.	[dBm]	[mW]	
2402	1.0	GFSK	ePA	0	7.80	6.026
2441	1.0	GFSK	ePA	39	8.62	7.278
2480	1.0	GFSK	ePA	78	7.74	5.938

Table 9-32 Bluetooth Antenna 2 BT Reduced RCV Active Conducted Power

Frequen	Data Rate	Mod.	Power	Channel	_	Avg Conducted Power		
cy [MHz]	[Mbps]			No.	[dBm]	[mW]		
2402	1.0	GFSK	ePA	0	7.79	6.008		
2441	1.0	GFSK	ePA	39	9.29	8.492		
2480	1.0	GFSK	ePA	78	8.94	7.828		

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo FC of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 56 of 137

Keysight Spectrum Analyzer - Swept SA - - X SENSE:INT ALIGN AUTO 05:13:40 PM Apr 28, 2021 Frequency TRACE 1 2 3 4 5 6
TYPE WWWWWW
DET P NNNNN #Avg Type: RMS Trig: Video PNO: Fast → Atten: 46 dB IFGain:Low **Auto Tune** ΔMkr3 3.750 ms -0.05 dB Ref 35.00 dBm 10 dB/div Log₹ Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz National Property Stop Freq 2.441000000 GHz Center 2.441000000 GHz **CF Step** Res BW 8 MHz #VBW 50 MHz Sweep 10.00 ms (1001 pts) 8.000000 MHz Man <u>Auto</u> FUNCTION | FUNCTION WIDTH 2.880 ms (Δ) 3.750 ms (Δ) -0.23 dB -0.05 dB **Freq Offset** 0 Hz **Scale Type** 10 Log <u>Lin</u>

Figure 9-5
Bluetooth Antenna 1 Transmission Plot

Equation 9-1
Bluetooth Antenna 1 Duty Cycle Calculation

STATUS

MSG

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.88ms}{3.75ms} * 100\% = 76.8\%$$

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 57 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 57 of 137

Keysight Spectrum Analyzer - Swept SA - - X SENSE:INT ALIGN AUTO 06:10:20 PM Apr 28, 2021 Frequency TRACE 1 2 3 4 5 6
TYPE WWWWWW
DET P NNNNN #Avg Type: RMS Trig: Video PNO: Fast → Atten: 46 dB IFGain:Low **Auto Tune** ΔMkr3 3.750 ms -0.03 dB 10 dB/div Log₹ Ref 35.00 dBm 3∆1 **Center Freq** 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz Center 2.441000000 GHz **CF Step** Res BW 8 MHz #VBW 50 MHz Sweep 10.00 ms (1001 pts) 8.000000 MHz <u>Auto</u> Man FUNCTION | FUNCTION WIDTH 2.880 ms (Δ) 3.750 ms (Δ) 0.13 dB -0.03 dB **Freq Offset** 0 Hz **Scale Type**

Figure 9-6
Bluetooth Antenna 2 Transmission Plot

Equation 9-2
Bluetooth Antenna 2 Duty Cycle Calculation

STATUS

Log

<u>Lin</u>

10

MSG

$$\textit{Duty Cycle} = \frac{\textit{Pulse Width}}{\textit{Period}} * 100\% = \frac{2.88ms}{3.75ms} * 100\% = 76.8\%$$

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 50 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 58 of 137

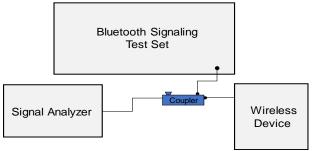


Figure 9-7
Power Measurement Setup

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 50 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 59 of 137

10.1 **Tissue Verification**

Table 10-1 Measured Head Tissue Properties

					oue i i op				
Calibrated for Tests	Tissue Type	Tissue Temp During	Measured Frequency	Measured Conductivity,	Measured Dielectric	TARGET Conductivity,	TARGET Dielectric	% dev σ	% dev ε
Performed on:		Calibration (°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε		
			680	0.867	41.498	0.888	42.305	-2.36%	-1.91%
			695	0.873	41.440	0.889	42.227	-1.80%	-1.86%
			700	0.875	41.418	0.889	42.201	-1.57%	-1.86%
			710	0.878	41.368	0.890	42.149	-1.35%	-1.85%
07/05/2021	750 Head	20.9	725	0.883	41.301	0.891	42.071	-0.90%	-1.83%
			750	0.892	41.239	0.894	41.942	-0.22%	-1.68%
			770	0.900	41.227	0.895	41.838	0.56%	-1.46%
			785	0.906	41.188	0.896	41.760	1.12%	-1.37%
			800	0.912	41.122	0.897	41.682	1.67%	-1.34%
00/00/0004	00511	00.5	820	0.872	40.329	0.899	41.578	-3.00%	-3.00%
06/28/2021	835 Head	22.5	835	0.887	40.137	0.900	41.500	-1.44%	-3.28%
			850 1710	0.902 1.370	39.946 39.245	0.916 1.348	41.500 40.142	-1.53% 1.63%	-3.74% -2.23%
			1710	1.370	39.245	1.346	40.142	1.03%	-2.23%
			1745	1.405	39.078	1.368	40.087	2.70%	-2.52%
07/06/2021	1750 Head	19.6	1750	1.410	39.053	1.371	40.079	2.84%	-2.56%
			1770	1.431	38.956	1.383	40.047	3.47%	-2.72%
			1790	1.453	38.861	1.394	40.016	4.23%	-2.89%
			1850	1.395	39.674	1.400	40.000	-0.36%	-0.82%
			1860	1.405	39.628	1.400	40.000	0.36%	-0.93%
07/40/2024	1000 Head	22.4	1880	1.426	39.541	1.400	40.000	1.86%	-1.15%
07/12/2021	1900 Head	22.1	1900	1.448	39.462	1.400	40.000	3.43%	-1.34%
			1905	1.453	39.441	1.400	40.000	3.79%	-1.40%
			1910	1.458	39.421	1.400	40.000	4.14%	-1.45%
			2400	1.784	37.366	1.756	39.289	1.59%	-4.89%
			2450	1.820	37.301	1.800	39.200	1.11%	-4.84%
			2480	1.841	37.270	1.833	39.162	0.44%	-4.83%
			2500	1.856	37.248	1.855	39.136	0.05%	-4.82%
			2510	1.864	37.235	1.866	39.123	-0.11%	-4.83%
07/07/2021	2450 Head	24.0	2535	1.884	37.199	1.893	39.092	-0.48%	-4.84%
			2550	1.895	37.179	1.909	39.073	-0.73%	-4.85%
			2560	1.903	37.167	1.920	39.060	-0.89%	-4.85%
			2600	1.934	37.112	1.964	39.009	-1.53%	-4.86%
			2650	1.972	37.039	2.018	38.945	-2.28%	-4.89% -4.92%
			2680 2700	1.995 2.009	36.992 36.958	2.051 2.073	38.907 38.882	-2.73% -3.09%	-4.92% -4.95%
			2300	1.730	37.901	1.670	39.500	3.59%	-4.05%
			2310	1.738	37.884	1.679	39.480	3.51%	-4.04%
			2320	1.745	37.870	1.687	39.460	3.44%	-4.03%
			2400	1.804	37.747	1.756	39.289	2.73%	-3.92%
			2450	1.842	37.663	1.800	39.200	2.33%	-3.92%
			2480	1.863	37.625	1.833	39.162	1.64%	-3.92%
			2500	1.878	37.594	1.855	39.136	1.24%	-3.94%
07/11/2021	2450 Head	22.0	2510	1.885	37.575	1.866	39.123	1.02%	-3.96%
			2535	1.905	37.529	1.893	39.092	0.63%	-4.00%
1			2550	1.918	37.504	1.909	39.073	0.47%	-4.02%
1			2560	1.926	37.491	1.920	39.060	0.31%	-4.02%
1			2600	1.955	37.442	1.964	39.009	-0.46%	-4.02%
			2650	1.994	37.356	2.018	38.945	-1.19%	-4.08%
			2680	2.018	37.315	2.051	38.907	-1.61%	-4.09%
-		1	2700	2.034	37.285	2.073	38.882	-1.88%	-4.11%
1			2300	1.681	39.004	1.670	39.500 39.480	0.66%	-1.26%
			2310	1.692	38.970 38.934	1.679	39.480 39.460	0.77%	-1.29%
1		1	2320 2400	1.703 1.789		1.687		0.95%	-1.33% -1.58%
1		1	2450	1.769	38.668 38.502	1.756 1.800	39.289 39.200	1.88% 2.44%	-1.58% -1.78%
1			2480	1.876	38.410	1.833	39.162	2.35%	-1.78%
1			2500	1.898	38.340	1.855	39.136	2.32%	-2.03%
07/31/2021	2450 Head	22.9	2510	1.909	38.303	1.866	39.123	2.30%	-2.10%
			2535	1.939	38.211	1.893	39.092	2.43%	-2.25%
1		1	2550	1.957	38.159	1.909	39.073	2.51%	-2.34%
1			2560	1.968	38.127	1.920	39.060	2.50%	-2.39%
1			2600	2.012	37.995	1.964	39.009	2.44%	-2.60%
	I.	1				2.018	38.945	2 420/	-2.93%
			2650	2.067	37.803	2.010	30.945	2.43%	-2.93%
			2650 2680	2.067	37.803 37.697	2.051	38.907	2.43%	-3.11%

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 60 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 60 of 137

Table 10-2
Measured Head Tissue Properties

					ie Propertie				
Calibrated for		Tissue Temp	Measured	Measured	Measured	TARGET	TARGET		
Tests	Tissue Type	During	Frequency	Conductivity,	Dielectric	Conductivity,	Dielectric	% dev σ	% dev ε
Performed on:		Calibration (°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε		
			5180	4.484	34.671	4.635	36.009	-3.26%	-3.72%
			5190	4.493	34.651	4.645	35.998	-3.27%	-3.74%
			5200	4.502	34.631	4.655	35.986	-3.29%	-3.77%
			5210	4.514	34.605	4.666	35.975	-3.26%	-3.81%
			5220	4.526	34.580	4.676	35.963	-3.21%	-3.85%
			5240	4.551	34.543	4.696	35.940	-3.09%	-3.89%
			5250	4.561	34.526	4.706	35.929	-3.08%	-3.90%
			5260	4.573	34.509	4.717	35.917	-3.05%	-3.92%
			5270	4.585	34.488	4.727	35.906	-3.00%	-3.95%
			5280	4.597	34.472	4.737	35.894	-2.96%	-3.96%
			5290	4.607	34.463	4.748	35.883	-2.97%	-3.96%
			5300	4.615	34.462	4.758	35.871	-3.01%	-3.93%
			5310	4.626	34.452	4.768	35.860	-2.98%	-3.93%
			5320	4.639	34.433	4.778	35.849	-2.91%	-3.95%
			5500	4.835	34.138	4.963	35.643	-2.58%	-4.22%
		24.0	5510	4.849	34.124	4.973	35.632	-2.49%	-4.23%
			5520	4.862	34.110	4.983	35.620	-2.43%	-4.24%
			5530	4.876	34.097	4.994	35.609	-2.36%	-4.25%
			5540	4.887	34.086	5.004	35.597	-2.34%	-4.24%
			5550	4.898	34.075	5.014	35.586	-2.31%	-4.25%
07/09/2021	5200-5800		5560	4.909	34.068	5.024	35.574	-2.29%	-4.23%
07/09/2021	Head	21.0	5580	4.927	34.032	5.045	35.551	-2.34%	-4.27%
			5600	4.949	33.982	5.065	35.529	-2.29%	-4.35%
			5610	4.963	33.963	5.076	35.518	-2.23%	-4.38%
			5620	4.976	33.946	5.086	35.506	-2.16%	-4.39%
			5640	4.999	33.916	5.106	35.483	-2.10%	-4.42%
			5660	5.021	33.906	5.127	35.460	-2.07%	-4.38%
			5670	5.029	33.898	5.137	35.449	-2.10%	-4.38%
			5680	5.037	33.885	5.147	35.437	-2.14%	-4.38%
			5690	5.046	33.863	5.158	35.426	-2.17%	-4.41%
			5700	5.057	33.840	5.168	35.414	-2.15%	-4.44%
			5710	5.068	33.819	5.178	35.403	-2.12%	-4.47%
			5720	5.079	33.794	5.188	35.391	-2.10%	-4.51%
			5745	5.109	33.743	5.214	35.363	-2.01%	-4.58%
			5750	5.114	33.737	5.219	35.357	-2.01%	-4.58%
			5755	5.120	33.733	5.224	35.351	-1.99%	-4.58%
			5765	5.129	33.727	5.234	35.340	-2.01%	-4.56%
			5775	5.136	33.719	5.245	35.329	-2.08%	-4.56%
			5785	5.144	33.703	5.255	35.317	-2.11%	-4.57%
			5795	5.153	33.685	5.265	35.305	-2.13%	-4.59%
			5805	5.162	33.670	5.275	35.294	-2.14%	-4.60%
			5825	5.182	33.618	5.296	35.271	-2.15%	-4.69%

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Domo 64 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 61 of 137

Table 10-3 Measured Body Tissue Properties

Calibrated for Tests					Douy 1133					
Performed on: Calibration Co (with:) co (sim) Constant, c co (sim) Constant, c co co co co co co co			-							
680 0.932 55.715 0.988 55.804 -2.71% -0.16%		Tissue Type	_						% dev σ	% dev ε
Best	Performed on:		Calibration (C)		σ (S/m)	•	σ (S/m)	Constant, E		
06/28/2021 750 Body 21.2 700 0.944 55.677 0.959 55.726 1.1,89% 2.10% 7.100 0.944 55.650 0.950 55.876 1.1,69% 2.10% 7.100 0.944 55.650 0.950 55.876 1.1,69% 2.10% 2.10% 7.100 0.950 55.650 0.950 55.650 1.1,69% 2.1,14% 2.10% 7.100 0.950 55.650 0.950 1.1,14% 2.10% 2.10% 7.100 0.950 55.650 0.950 55.800 0.950 55.800 0.950 55.726 1.1,14% 0.1550 55.650 0.950 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 1.1,14% 0.1550 0.950 55.726 0.950 0.950 55.726 1.1,14% 0.1550 0.950 55.726 0.950 0.950 55.726 1.1,14% 0.1550 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 0.950 55.726 0.950 55.726 0.950 0.950 55.726 0.950 55.726 0.950 0.950 55.726 0.950 5							1		-2.71%	-0.16%
1750 Body 1750								55.745		-0.11%
06/38/2021 750 Body 21.2 755 0.956				700	0.940	55.671	0.959	55.726	-1.98%	-0.10%
750 0.986				710	0.944	55.650	0.960	55.687	-1.67%	-0.07%
Page	06/28/2021	750 Body	21.2	725	0.950	55.622	0.961	55.629	-1.14%	-0.01%
785 0.973 55.428 0.968 55.395 0.72% 0.11% 680 0.978 55.420 0.967 55.336 1.14% 0.15% 680 0.938 55.420 0.967 55.336 1.14% 0.15% 680 0.938 55.420 0.969 55.745 1.156% 1.28% 685 0.944 55.052 0.959 55.745 1.156% 1.28% 770 0.944 55.052 0.959 55.745 1.156% 1.128% 770 0.944 55.052 0.959 55.745 1.156% 1.128% 770 0.944 55.052 0.959 55.745 1.156% 1.128% 1.123% 1				750	0.959	55.560	0.964	55.531	-0.52%	0.05%
B800				770	0.967	55.504	0.965	55.453	0.21%	0.09%
680				785	0.973	55.458	0.966	55.395	0.72%	0.11%
06/30/2021 750 Body 21.1 750 Body 22.1 750 Body 22.2 750 Body 22.1 750 Body 22.2 750 Body 22.1 750 B				800	0.978	55.420	0.967	55.336	1.14%	0.15%
06/30/2021 750 Body 21.1 750 0.986 55.095 0.9860 55.687 1.04% 1.02% 1.				680	0.938	55.090	0.958	55.804	-2.09%	-1.28%
06/30/2021 750 Body 21.1 750 Body 22.1 750 Body 22.2 750 Body 22.2 750 Body 22.1 750 Body 22.2 750 Body 22.2 750 B		07/06/2021 750 Body		695	0.944	55.052	0.959	55.745	-1.56%	-1.24%
06/30/2021 750 Body 21.1 725 0.956 54.980 0.961 55.629 -0.52% -1.17% 750 0.965 54.918 0.964 55.531 0.10% -1				700	0.946	55.039	0.959	55.726	-1.36%	-1.23%
750 0.965 54.919 0.964 55.531 0.10% -1.10% 770 0.973 54.867 0.965 55.453 0.83% -1.06% 800 0.984 54.867 0.965 55.453 0.83% -1.06% 800 0.984 54.793 0.967 55.336 1.76% -0.96% 695 0.966 54.228 0.986 55.395 1.72% -1.03% 900 0.984 54.793 0.967 55.336 1.76% -0.96% 695 0.971 54.167 0.959 55.745 1.25% -2.79% 700 0.973 54.174 0.959 55.745 1.25% -2.79% 710 0.976 54.148 0.960 55.629 1.46% -2.79% 710 0.976 54.148 0.960 55.629 1.29% -2.73% 710 0.976 54.148 0.960 55.629 1.29% -2.73% 710 0.991 54.067 0.964 55.531 2.80% -2.65% 7750 0.991 54.067 0.964 55.531 2.80% -2.65% 785 1.00% 53.963 0.966 55.395 3.93% -2.56% 800 1.010 53.927 0.967 55.336 4.45% -2.55% 800 1.010 53.927 0.967 55.336 4.45% -2.55% 800 1.010 53.927 0.967 55.336 4.45% -2.25% 62.25% 825 0.988 55.154 -2.25% 62.25% 825 0.988 55.154 -2.25% 62.25% 825 0.988 55.154 -2.25% 62.25% 825 0.988 55.154 -2.25% 62.25% 825 0.988 55.154 -2.25% -2.25% -2.25%			710	0.950	55.015	0.960	55.687	-1.04%	-1.21%	
770 0.973 54.867 0.965 55.453 0.83% -1.06% 785 0.978 54.826 0.966 55.395 1.24% -1.03% 800 0.984 54.793 0.967 55.336 1.24% -1.03% 680 0.986 54.828 0.966 55.395 1.24% -1.03% 680 0.986 54.228 0.958 55.304 0.84% -2.82% 695 0.971 54.187 0.999 55.745 1.25% -2.79% 700 0.973 54.187 0.999 55.745 1.25% -2.79% 710 0.976 54.184 0.999 55.745 1.25% -2.79% 710 0.976 54.148 0.960 55.687 1.67% -2.76% 770 0.998 54.141 0.961 55.629 2.19% -2.73% 750 0.991 54.067 0.964 55.531 2.80% -2.66% 7770 0.998 54.005 0.965 55.453 3.42% -2.66% 7770 0.998 54.005 0.965 55.453 3.42% -2.66% 786 1.004 53.963 0.966 55.395 3.93% -2.59% 800 1.0100 53.927 0.967 55.236 4.45% -2.55% 6.26%	06/30/2021	06/30/2021 750 Body	21.1	725	0.956	54.980	0.961	55.629	-0.52%	-1.17%
785 0.978 54.826 0.966 55.395 1.24% -1.03% 800 0.984 54.793 0.967 55.336 1.76% -0.98% 680 0.986 54.793 0.967 55.336 1.76% -0.98% 695 0.971 54.187 0.959 55.745 1.25% -2.79% 700 0.973 54.174 0.959 55.745 1.25% -2.79% 710 0.976 54.148 0.969 55.726 1.46% -2.76% 710 0.976 54.148 0.960 55.867 1.65% -2.76% 770 0.998 54.174 0.959 55.726 1.46% -2.76% 750 0.991 54.057 0.964 55.531 2.260% -2.65% 760 0.991 54.057 0.964 55.531 2.260% -2.65% 785 1.004 53.963 0.966 55.395 3.34% -2.65% 800 1.010 53.927 0.967 55.336 4.45% -2.55% 800 1.010 53.927 0.967 55.336 4.46% -2.25% 820 0.963 53.749 0.969 55.258 3.36% -2.25% 850 0.963 53.707 0.988 55.164 2.25% -2.26% 850 0.963 53.707 0.988 55.164 2.25% -2.26% 850 0.963 52.714 0.969 55.258 4.475% -4.60% 6.96			750	0.965	54.919	0.964	55.531	0.10%	-1.10%	
800 0.984 54.793 0.967 55.336 1.76% 0.98% 686 0.966 54.228 0.958 55.804 0.94% 2.26% 696 0.971 54.187 0.959 55.745 1.25% 2.79% 700 0.973 54.174 0.959 55.726 1.46% 2.79% 710 0.976 54.148 0.960 55.687 1.67% 2.73% 750 0.991 54.057 0.964 55.531 2.80% 2.26% 770 0.998 54.005 0.964 55.531 2.26% 2.65% 770 0.998 54.005 0.964 55.531 2.26% 2.26% 770 0.998 54.005 0.966 55.483 3.42% 2.26% 785 1.004 53.963 0.966 55.395 3.93% 2.25% 800 1.010 53.927 0.967 55.336 4.45% 2.25% 820 0.932 53.974 0.969 55.288 3.82% 2.22% 821 822 0.932 53.974 0.969 55.288 3.82% 2.22% 822 0.983 52.574 0.969 55.250 -2.27% 2.46% 850 0.963 53.707 0.988 55.154 2.25% 4.60% 850 0.954 52.435 0.988 55.154 3.44% 4.93% 850 0.954 52.435 0.988 55.154 3.44% 4.93% 850 0.954 52.435 0.988 55.154 3.44% 4.93% 1770 1.483 52.831 1.463 53.537 1.37% 1.32% 1770 1.546 52.570 1.501 53.379 3.00% 1.55% 1770 1.581 52.518 1.463 53.537 1.64% 1.99% 1770 1.582 52.249 1.469 53.511 1.97% 1.93% 1770 1.575 52.502 1.514 53.326 3.80% 2.1% 1770 1.575 52.249 1.469 53.511 1.97% 1.93% 1770 1.575 52.249 1.469 53.511 1.97% 1.93% 1770 1.575 52.249 1.469 53.511 3.00% 2.27% 1770 1.575 52.249 1.469 53.511 3.00% 2.27% 1770 1.575 52.249 1.469 53.511 3.00% 2.27% 1770 1.575 52.249 1.469 53.511 3.00% 2.27% 1770 1.575 52.249 1.469 53.511 3.00% 2.27% 1770 1.575 52.247 1.469 53.511 3.00% 2.27% 1770 1.575 52.247 1.485 53.445 2.26% 2.26% 1770 1.475 52.202 1.501 53.379 3.00% 2.27% 1770 1.475 52.102 1.501 53.379 3.00% 2.27% 1770 1.475 52.102 1.501 53.379 3.00% 2				770	0.973	54.867	0.965	55.453	0.83%	-1.06%
			785	0.978	54.826	0.966	55.395	1.24%	-1.03%	
06/29/2021 Properties of the p			800	0.984	54.793	0.967	55.336	1.76%	-0.98%	
07/06/2021 750 Body 22.1 700 0.973 54.174 0.959 55.726 1.46% -2.79% 710 0.976 54.148 0.960 55.687 1.67% -2.73% 725 0.982 54.111 0.961 55.629 2.19% -2.73% 750 0.991 54.057 0.964 55.531 2.80% -2.66% 770 0.998 54.005 0.965 55.453 3.42% -2.61% 770 0.998 54.005 0.966 55.395 3.93% -2.59% 800 1.010 53.927 0.967 55.336 4.45% -2.59% 820 0.932 53.974 0.969 55.258 -3.62% -2.62% 850 0.963 53.707 0.988 55.154 -2.53% -2.62% 07/04/2021 835 Body 22.4 835 0.933 52.714 0.969 55.258 -4.75% -4.60% 07/04/2021 835 Body 22.4				680	0.966	54.228	0.958	55.804	0.84%	-2.82%
710 0.976 54.148 0.960 55.687 1.67% 2.76% 2.76% 750 0.982 54.111 0.961 55.629 2.19% 2.73% 750 0.991 54.057 0.964 55.531 2.80% 2.265% 770 0.998 54.005 0.966 55.453 3.42% 2.261% 785 1.004 53.963 0.966 55.395 3.93% 2.265% 800 1.010 53.927 0.967 55.336 4.45% 2.255% 820 0.932 53.974 0.969 55.258 -3.82% 2.23% 850 0.963 53.707 0.988 55.154 2.25% 850 0.963 53.707 0.988 55.154 2.25% 2.26% 850 0.963 53.707 0.988 55.154 2.25% 2.26% 850 0.963 53.707 0.988 55.154 2.25% 2.26% 850 0.963 52.714 0.969 55.258 2.45% 2.46% 850 0.963 52.714 0.969 55.258 2.47.75% 2.46% 2.55% 2.45% 2.45% 2.55% 2.45				695	0.971	54.187	0.959	55.745	1.25%	-2.79%
06/28/2021 1750 Body 22.1 725 0.982 54.111 0.961 55.629 2.19% -2.73% 750 0.991 54.057 0.964 55.531 2.80% -2.65% 770 0.998 54.055 0.965 55.453 3.42% -2.61% 785 1.004 53.963 0.966 55.395 3.93% -2.59% 800 1.010 53.927 0.967 55.336 4.45% -2.55% 820 0.932 53.974 0.969 55.258 -3.82% -2.25% 850 0.963 53.843 0.970 55.200 -2.27% -2.46% 850 0.963 53.843 0.970 55.200 -2.27% -2.46% 850 0.963 53.707 0.988 55.154 -2.53% -2.62% 820 0.933 52.714 0.969 55.258 -4.75% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -2.69% -2.05% 850 0.954 52.355 0.988 55.154 -3.34% -4.93% 1710 1.483 52.831 1.463 53.537 1.37% -1.32% 1720 1.493 52.784 1.469 53.511 1.63% -1.32% 1720 1.493 52.784 1.469 53.511 1.63% -1.32% 1720 1.525 52.648 1.485 53.445 2.36% -1.45% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1770 1.565 52.272 1.501 53.379 3.00% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1770 1.552 52.272 1.501 53.379 3.00% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1.501 53.379 3.00% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 5			22.1	700	0.973	54.174	0.959	55.726	1.46%	-2.79%
06/28/2021 1750 Body 22.1 725 0.982 54.111 0.961 55.629 2.19% -2.73% 750 0.991 54.057 0.964 55.531 2.80% -2.65% 770 0.998 54.055 0.965 55.453 3.42% -2.61% 785 1.004 53.963 0.966 55.395 3.93% -2.59% 800 1.010 53.927 0.967 55.336 4.45% -2.55% 820 0.932 53.974 0.969 55.258 -3.82% -2.25% 850 0.963 53.843 0.970 55.200 -2.27% -2.46% 850 0.963 53.843 0.970 55.200 -2.27% -2.46% 850 0.963 53.707 0.988 55.154 -2.53% -2.62% 820 0.933 52.714 0.969 55.258 -4.75% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -2.69% -2.05% 850 0.954 52.355 0.988 55.154 -3.34% -4.93% 1710 1.483 52.831 1.463 53.537 1.37% -1.32% 1720 1.493 52.784 1.469 53.511 1.63% -1.32% 1720 1.493 52.784 1.469 53.511 1.63% -1.32% 1720 1.525 52.648 1.485 53.445 2.36% -1.45% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1770 1.565 52.272 1.501 53.379 3.00% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1770 1.552 52.272 1.501 53.379 3.00% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1.501 53.379 3.00% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.27% 1790 1.574 5					+		+			-2.76%
750 0.991 54.057 0.964 55.531 2.80% 2.65% 770 0.998 54.005 0.965 55.453 3.42% 2.61% 785 1.004 53.963 0.966 55.395 3.93% 2.261% 800 1.010 53.927 0.967 55.336 4.45% 2.55% 800 1.010 53.927 0.967 55.336 4.45% 2.25% 820 0.932 53.974 0.969 55.258 -3.82% 2.23% 850 0.948 53.843 0.970 55.200 2.27% 2.46% 850 0.963 53.707 0.988 55.154 2.53% 2.62% 850 0.963 53.707 0.988 55.154 2.53% 2.62% 850 0.963 53.707 0.988 55.154 -3.43% 4.45% 2.62% 850 0.9932 52.714 0.969 55.258 4.75% 4.60% 850 0.9948 52.414 0.969 55.258 4.75% 4.46% 850 0.954 52.435 0.988 55.154 -3.44% 4.93% 850 0.954 52.435 0.988 55.154 -3.44% 4.93% 1770 1.483 52.831 1.463 53.537 1.37% 1.32% 1720 1.493 52.784 1.469 53.511 1.63% 1.36% 1.36% 1750 1.525 52.648 1.485 53.445 2.36% 1.45% 1770 1.546 52.570 1.501 53.379 3.00% 1.52% 1770 1.546 52.570 1.501 53.379 3.00% 1.52% 1770 1.547 52.518 1.463 53.537 1.64% 1.99% 1770 1.548 52.479 1.469 53.511 1.97% 1.99% 1770 1.552 52.271 1.488 53.432 2.82% 2.03% 1770 1.554 52.203 1.514 53.326 3.96% 2.11% 1770 1.554 52.203 1.514 53.326 3.96% 2.21% 1770 1.574 52.203 1.514 53.326 3.96% 2.21% 1770 1.414 52.329 1.463 53.537 -3.35% 2.26% 1770 1.425 52.294 1.469 53.511 3.00% 2.27% 1770 1.445 52.198 1.485 53.445 2.29% 2.23% 1745 1.455 52.294 1.469 53.511 3.00% 2.27% 1745 1.451 52.198 1.488 53.432 2.26% 2.20% 1746 1.451 52.203 1.514 53.326 3.96% 2.21% 1750 1.456 52.178 1.485 53.445 2.29% 2.23% 1745 1.451 52.198 1.485 53.445 2.29% 2.23% 1746 1.451 52.198 1.485 53.445 2.29% 2.23% 17470 1.445 52.198 1.485 53.445 2.29% 2.23%	07/06/2021	750 Body			ļ					
1750 Body 1750	01,00,202	. 00 200,								
1750 Body 1750										
800 1.010 53.927 0.967 55.336 4.45% 2.55% 820 0.932 53.974 0.969 55.258 -3.82% 2.32% 2.23% 0.948 53.843 0.970 55.200 -2.27% 2.46% 850 0.963 53.707 0.988 55.154 -2.53% 2.62% 0.923 52.714 0.969 55.258 -4.75% 2.62% 0.923 52.714 0.969 55.258 -4.75% 2.62% 820 0.923 52.714 0.969 55.258 -4.75% 2.62% 850 0.954 52.435 0.988 55.154 -3.34% 2.46% 850 0.954 52.435 0.988 55.154 -3.44% 4.93% 1720 1.483 52.831 1.463 53.537 1.37% 1.32% 1720 1.493 52.784 1.469 53.511 1.63% 1.36% 1.47% 1770 1.546 52.570 1.501 53.379 3.00% 1.52% 1790 1.567 52.502 1.514 53.326 3.50% 1.55% 1790 1.567 52.502 1.514 53.326 3.50% 1.55% 1790 1.567 52.502 1.514 53.326 3.50% 1.55% 1790 1.567 52.502 1.514 53.326 3.50% 1.55% 1790 1.567 52.502 1.514 53.326 3.50% 1.50% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.567 52.502 1.514 53.326 3.50% 2.05% 1790 1.574 52.203 1.514 53.326 3.50% 2.05% 1790 1.574 52.203 1.514 53.326 3.537 2.05% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 2.20% 1.500 53.379 3.40% 2.20% 1.500 53.379 3.40% 2.20% 1.500 53.379 3.40% 2.20% 1.					ł					
06/29/2021 835 Body 22.7 835 0.948 53.843 0.970 55.258 -3.82% -2.32% 06/29/2021 835 Body 22.4 835 0.948 53.843 0.970 55.200 -2.27% -2.46% 850 0.963 53.707 0.988 55.154 -2.53% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -4.60% 850 0.938 52.574 0.970 55.200 -3.30% -4.76% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 1720 1.483 52.831 1.463 53.537 1.37% -1.32% 1750 Body 22.6 1745 1.520 52.668 1.485 53.455 2.36% -1.45% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1750 Body 23.0 1750 1.586 52.502 1.514 53.357 1.64%										
06/29/2021 835 Body 22.7 835 0.948 53.843 0.970 55.200 -2.27% -2.46% 850 0.963 53.707 0.988 55.154 -2.53% -2.62% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -4.60% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 1710 1.483 52.831 1.463 53.537 1.37% 1.32% 1.750 Body 1750 1.525 52.648 1.485 53.445 2.36% -1.45% 1770 1.546 52.570 1.501 53.379 3.00% -1.55% 1770 1.546 52.570 1.501 53.379 3.00% -1.55% 1770 1.546 52.479 1.469 53.511 1.97% 1.90% 1.750 1.552 52.272 1.501 53.379 3.40% 2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1770 1.546 52.272 1.501 53.379 3.40% 2.07% 1790 1.574 52.203 1.514 53.326 3.50% -1.190% 1.750 1.552 52.294 1.469 53.511 1.97% -2.26% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1770 1.552 52.294 1.469 53.511 1.97% -2.26% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1750 1.552 52.294 1.469 53.511 1.90% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1770 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.445 -2.29% -2.33										
850 0.963 53.707 0.988 55.154 -2.63% -2.62% 820 0.923 52.714 0.969 55.258 -4.75% -4.60% 850 0.938 52.574 0.970 55.200 -3.30% -4.76% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 850 1.710 1.483 52.831 1.463 53.537 1.37% -1.32% 1720 1.493 52.784 1.469 53.511 1.63% -1.36% 1720 1.525 52.668 1.485 53.445 2.36% -1.45% 1750 1.525 52.648 1.488 53.432 2.49% -1.47% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1790 1.487 52.518 1.463 53.537 1.64% -1.90% 1720 1.498 52.479 1.469 53.511 1.97% -1.93% 1720 1.498 52.479 1.469 53.511 1.97% -1.93% 1750 1.550 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1790 1.441 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.33%	06/29/2021	835 Body	22.7				ł			
07/04/2021 835 Body 22.4 820 0.923 52.714 0.969 55.258 -4.75% -4.60% 835 0.938 52.574 0.970 55.200 -3.30% -4.76% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 1710 1.483 52.831 1.463 53.537 1.37% -1.32% 1720 1.493 52.784 1.469 53.511 1.63% -1.36% 1750 1.525 52.668 1.485 53.445 2.36% -1.45% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.52% 1720 1.498 52.479 1.469 53.511 1.97% -1.93% 1720 1.498 52.479 1.469 53.511 1.97% -1.93% 1750 1.536 52.349 1.488 53.432 2.26% -2.01% 1750 1.536 52.272 1.501 53.379 3.40% -2.27% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1770 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.488 53.432 -2.15% -2.236 1.500 1.456 52.178 1.488 53.432 -2.15% -2.356 1.500 1.477 52.102 1.501 53.379 -1.60% -2.39%	00/23/2021	000 Dody	22.1		+		+			
07/04/2021 835 Body 22.4 835 0.938 52.574 0.970 55.200 -3.30% -4.76% 850 0.954 52.435 0.988 55.154 -3.44% -4.93% 1710 1.483 52.831 1.463 53.537 1.37% -1.32% 1720 1.493 52.784 1.469 53.511 1.63% -1.36% 1750 1.525 52.668 1.485 53.445 2.36% -1.45% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1710 1.498 52.479 1.469 53.511 1.97% -1.93% 1750 1.501 52.371 1.485 53.445 2.69% -2.01% 1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.249 1.469 53.511 1.97% -1.93% 1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1750 1.441 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.455 52.178 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1750 1.447 52.102 1.501 53.379 -1.60% -2.39%										
850 0.954 52.435 0.988 55.154 -3.44% -4.93% 1710 1.483 52.831 1.463 53.537 1.37% -1.32% 1720 1.493 52.784 1.469 53.511 1.63% -1.36% 1745 1.520 52.668 1.485 53.445 2.36% -1.45% 1750 1.525 52.648 1.488 53.432 2.49% -1.47% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1710 1.487 52.518 1.463 53.537 1.64% -1.90% 1720 1.498 52.479 1.469 53.511 1.97% -1.90% 1745 1.525 52.371 1.485 53.445 2.69% -2.01% 1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.554 52.202 1.514 53.326 3.96% -2.11% 1750 Body 23.5 1750 1.414 52.329 1.469 53.511 -3.00% -2.27% 1750 1.445 52.203 1.514 53.326 3.96% -2.11% 1750 1.445 52.203 1.514 53.326 3.96% -2.11% 1750 1.445 52.203 1.514 53.326 3.96% -2.21% 1750 1.445 52.203 1.485 53.445 -2.29% -2.33% 1745 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.425 52.294 1.469 53.511 -3.00% -2.27% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%	07/04/2024	925 Pody	00.4		ł					
06/28/2021	07/04/2021	033 Body	22.4				ł			
06/28/2021					ł		1			
06/28/2021 1750 Body 22.6 1745 1.520 52.668 1.485 53.445 2.36% -1.45% 1750 1.525 52.648 1.488 53.432 2.49% -1.47% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1710 1.487 52.518 1.463 53.537 1.64% -1.90% 1720 1.498 52.479 1.469 53.511 1.97% -1.93% 1745 1.525 52.371 1.485 53.445 2.69% -2.01% 1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1720 1.498 52.479 1.469 53.511 -3.00% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1700 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1750 1.477 52.102 1.501 53.379 -1.60% -2.39%					1		ļ			
06/28/2021 1750 Body 22.6 1750 1.525 52.648 1.488 53.432 2.49% -1.47% 1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1790 1.487 52.518 1.463 53.537 1.64% -1.90% 1720 1.498 52.479 1.469 53.511 1.97% -1.93% 1745 1.525 52.371 1.485 53.445 2.69% -2.01% 1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1710 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1750 1.477 52.102 1.501 53.379 -1.60% -2.39%					ł		ł			
1770 1.546 52.570 1.501 53.379 3.00% -1.52% 1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1710 1.487 52.518 1.463 53.537 1.64% -1.90% 1720 1.498 52.479 1.469 53.511 1.97% -1.93% 1745 1.525 52.371 1.485 53.445 2.69% -2.01% 1750 1.550 1.550 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1710 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.432 -2.15% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1750 1.477 52.102 1.501 53.379 -1.60% -2.39%	06/28/2021	1750 Body	22.6		+		ł			
1790 1.567 52.502 1.514 53.326 3.50% -1.55% 1710 1.487 52.518 1.463 53.537 1.64% -1.90% 1720 1.498 52.479 1.469 53.511 1.97% -1.93% 1745 1.525 52.371 1.485 53.445 2.69% -2.01% 1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1710 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%					ł					
06/30/2021					1		1			
06/30/2021					 		 			
06/30/2021 1750 Body 23.0 1745 1.525 52.371 1.485 53.445 2.69% -2.01% 1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1710 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%					ł		 			
06/30/2021 1750 Body 23.0 1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1790 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%							1			
1750 1.530 52.349 1.488 53.432 2.82% -2.03% 1770 1.552 52.272 1.501 53.379 3.40% -2.07% 1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1710 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%	06/30/2021	1750 Body	23.0		ļ		+			
1790 1.574 52.203 1.514 53.326 3.96% -2.11% 1710 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%			1		1		-			
07/13/2021 1750 Body 1710 1.414 52.329 1.463 53.537 -3.35% -2.26% 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%										
07/13/2021 1750 Body 23.5 1720 1.425 52.294 1.469 53.511 -3.00% -2.27% 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%					ł		ł			
07/13/2021 1750 Body 23.5 1745 1.451 52.198 1.485 53.445 -2.29% -2.33% 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%					1.414	52.329	1.463	53.537	-3.35%	-2.26%
07/13/2021 1750 Body 23.5 1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%				1720	1.425	52.294	1.469	53.511	-3.00%	-2.27%
1750 1.456 52.178 1.488 53.432 -2.15% -2.35% 1770 1.477 52.102 1.501 53.379 -1.60% -2.39%	07/13/2021	1750 Body	23.5	1745	1.451	52.198	1.485	53.445	-2.29%	-2.33%
	01,10,2021	co body	20.0	1750	1.456	52.178	1.488	53.432	-2.15%	-2.35%
1790 1.497 52.033 1.514 53.326 -1.12% -2.42%				1770	1.477	52.102	1.501	53.379	-1.60%	-2.39%
				1790	1.497	52.033	1.514	53.326	-1.12%	-2.42%

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 62 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 62 of 137

Table 10-4 Measured Body Tissue Properties

Measured Body Hissue Properties									
Calibrated for Tests	Tissue Type	Tissue Temp During	Measured Frequency	Measured Conductivity,	Measured Dielectric	TARGET Conductivity,	TARGET Dielectric	% dev σ	% dev a
Performed on:		Calibration (°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε		
			1850	1.523	52.199	1.520	53.300	0.20%	-2.07%
			1860	1.534	52.173	1.520	53.300	0.92%	-2.11%
	22.2	1880	1.553	52.100	1.520	53.300	2.17%	-2.25%	
07/05/2021	1900 Body	23.2	1900	1.574	52.007	1.520	53.300	3.55%	-2.43%
			1905	1.580	51.985	1.520	53.300	3.95%	-2.47%
			1910	1.585	51.964	1.520	53.300	4.28%	-2.51%
			1850	1.519	52.832	1.520	53.300	-0.07%	-0.88%
07/12/2021 1900 Body		1860	1.530	52.793	1.520	53.300	0.66%	-0.95%	
			1880	1.552	52.721	1.520	53.300	2.11%	-1.09%
	22.4	1900	1.575	52.655	1.520	53.300	3.62%	-1.21%	
		1905	1.580	52.638	1.520	53.300	3.95%	-1.24%	
			1910	1.586	52.621	1.520	53.300	4.34%	-1.27%
				1.529		+			
			1850 1860	1.540	51.538	1.520 1.520	53.300 53.300	0.59% 1.32%	-3.31% -3.37%
					51.503			-	
07/15/2021	1900 Body	23.3	1880	1.562	51.437	1.520	53.300	2.76%	-3.50%
			1900	1.584	51.377	1.520	53.300	4.21%	-3.61%
		1905	1.590	51.361	1.520	53.300	4.61%	-3.64%	
			1910	1.596	51.344	1.520	53.300	5.00%	-3.67%
			2300	1.741	52.641	1.809	52.900	-3.76%	-0.49%
			2310	1.754	52.601	1.816	52.887	-3.41%	-0.54%
			2320	1.768	52.568	1.826	52.873	-3.18%	-0.58%
			2400	1.872	52.308	1.902	52.767	-1.58%	-0.87%
			2450	1.940	52.122	1.950	52.700	-0.51%	-1.10%
			2480	1.982	52.033	1.993	52.662	-0.55%	-1.19%
		Body 24.5	2500	2.007	51.959	2.021	52.636	-0.69%	-1.29%
07/06/2021	2450 Body		2510	2.019	51.916	2.035	52.623	-0.79%	-1.34%
			2535	2.051	51.804	2.071	52.592	-0.97%	-1.50%
			2550	2.073	51.749	2.092	52.573	-0.91%	-1.57%
			2560	2.088	51.715	2.106	52.560	-0.85%	-1.61%
			2600	2.142	51.597	2.163	52.509	-0.97%	-1.74%
			2650	2.205	51.383	2.234	52.445	-1.30%	-2.02%
			2680	2.250	51.281	2.277	52.407	-1.19%	-2.15%
			2700	2.278	51.227	2.305	52.382	-1.17%	-2.20%
			2300	1.741	53.194	1.809	52.900	-3.76%	0.56%
			2310	1.754	53.163	1.816	52.887	-3.41%	0.52%
			2320	1.768	53.137	1.826	52.873	-3.18%	0.50%
			2400	1.875	52.878	1.902	52.767	-1.42%	0.21%
			2450	1.944	52.696	1.950	52.700	-0.31%	-0.01%
			2480	1.984	52.582	1.993	52.760	-0.45%	-0.15%
			2500		52.505				
07/00/0004	0450 D-4	04.0		2.011		2.021	52.636	-0.49%	-0.25%
07/08/2021	2450 Body	24.3	2510	2.024	52.465	2.035	52.623	-0.54%	-0.30%
			2535	2.058	52.361	2.071	52.592	-0.63%	-0.44%
			2550	2.078	52.306	2.092	52.573	-0.67%	-0.51%
			2560	2.092	52.268	2.106	52.560	-0.66%	-0.56%
			2600	2.145	52.132	2.163	52.509	-0.83%	-0.72%
			2650	2.212	51.947	2.234	52.445	-0.98%	-0.95%
			2680	2.254	51.840	2.277	52.407	-1.01%	-1.08%
			2700	2.281	51.775	2.305	52.382	-1.04%	-1.16%
			2300	1.867	50.972	1.809	52.900	3.21%	-3.64%
			2310	1.879	50.942	1.816	52.887	3.47%	-3.68%
			2320	1.890	50.914	1.826	52.873	3.50%	-3.719
			2400	1.981	50.690	1.902	52.767	4.15%	-3.94%
			2450	2.039	50.556	1.950	52.700	4.56%	-4.07%
			2480	2.074	50.475	1.993	52.662	4.06%	-4.15%
			2500	2.097	50.414	2.021	52.636	3.76%	-4.229
07/14/2021	2450 Body	24.2	2510	2.109	50.384	2.035	52.623	3.64%	-4.25%
	/		2535	2.140	50.311	2.071	52.592	3.33%	-4.34%
			2550	2.159	50.271	2.092	52.573	3.20%	-4.389
			2560	2.171	50.245	2.106	52.560	3.09%	-4.40%
	İ		2600	2.220	50.126	2.163	52.509	2.64%	-4.54%
				4.44U	00.120	2.100	02.000	2.07/0	7.57/
						2 224	52 115	2 10%	-4 730
			2650 2680	2.281 2.317	49.964 49.874	2.234 2.277	52.445 52.407	2.10% 1.76%	-4.73% -4.83%

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 62 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 63 of 137

Table 10-5
Measured Body Tissue Properties

				Body HSSU																	
Calibrated for		Tissue Temp	Measured	Measured	Measured	TARGET	TARGET														
Tests	Tissue Type	During	Frequency	Conductivity,	Dielectric	Conductivity,	Dielectric	% dev σ	% dev ε												
Performed on:		Calibration (°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε														
			5180	5.215	48.069	5.276	49.041	-1.16%	-1.98%												
			5190	5.228	48.047	5.288	49.028	-1.13%	-2.00%												
			5200	5.241	48.023	5.299	49.014	-1.09%	-2.02%												
			5210	5.254	48.000	5.311	49.001	-1.07%	-2.04%												
			5220	5.270	47.989	5.323	48.987	-1.00%	-2.04%												
			5240	5.300	47.947	5.346	48.960	-0.86%	-2.07%												
			5250	5.311	47.917	5.358	48.947	-0.88%	-2.10%												
			5260	5.321	47.907	5.369	48.933	-0.89%	-2.10%												
			5270	5.337	47.901	5.381	48.919	-0.82%	-2.08%												
			5280	5.353	47.890	5.393	48.906	-0.74%	-2.08%												
			5290	5.367	47.878	5.404	48.892	-0.68%	-2.07%												
			5300	5.383	47.868	5.416	48.879	-0.61%	-2.07%												
			5310	5.399	47.860	5.428	48.865	-0.53%	-2.06%												
			5320	5.417	47.837	5.439	48.851	-0.40%	-2.08%												
			5500	5.668	47.542	5.650	48.607	0.32%	-2.19%												
			5510	5.683	47.527	5.661	48.594	0.39%	-2.20%												
			5520	5.701	47.517	5.673	48.580	0.49%	-2.19%												
	5200-5800 Body	24.5					5530	5.718	47.506	5.685	48.566	0.58%	-2.18%								
						5540	5.732	47.500	5.696	48.553	0.63%	-2.17%									
			5550	5.747	47.490	5.708	48.539	0.68%	-2.16%												
			5560	5.762	47.475	5.720	48.526	0.73%	-2.17%												
07/04/2021			5580	5.786	47.428	5.743	48.499	0.75%	-2.21%												
			5600	5.814	47.383	5.766	48.471	0.83%	-2.24%												
			5610	5.828	47.365	5.778	48.458	0.87%	-2.26%												
			5620	5.845	47.346	5.790	48.444	0.95%	-2.27%												
			5640	5.875	47.321	5.813	48.417	1.07%	-2.26%												
			5660	5.901	47.310	5.837	48.390	1.10%	-2.23%												
			5670	5.913	47.299	5.848	48.376	1.11%	-2.23%												
			5680	5.925	47.280	5.860	48.363	1.11%	-2.24%												
			5690	5.939	47.251	5.872	48.349	1.14%	-2.27%												
			5700	5.952	47.226	5.883	48.336	1.17%	-2.30%												
			5710	5.965	47.208	5.895	48.322	1.19%	-2.31%												
			5720	5.980	47.190	5.907	48.309	1.24%	-2.32%												
			5745	6.019	47.142	5.936	48.275	1.40%	-2.35%												
															5750	6.026	47.137	5.942	48.268	1.41%	-2.34%
														5755	6.031	47.136	5.947	48.261	1.41%	-2.33%	
			5765	6.041	47.131	5.959	48.248	1.38%	-2.32%												
			5775	6.052	47.117	5.971	48.234	1.36%	-2.32%												
			5785	6.065	47.104	5.982	48.220	1.39%	-2.31%												
			5795	6.079	47.084	5.994	48.207	1.42%	-2.33%												
			5800	6.088	47.078	6.000	48.200	1.47%	-2.33%												
			5805	6.095	47.068	6.006	48.193	1.48%	-2.33%												
			5825	6.119	47.004	6.029	48.166	1.49%	-2.41%												

FCC ID: A3LSMF711JPN	PCTEST*	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 64 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 64 of 137

Table 10-6 Measured Body Tissue Properties

			incasul ca	Doug Host	ie Propertie	3										
Calibrated for		Tissue Temp	Measured	Measured	Measured	TARGET	TARGET									
Tests	Tissue Type	During	Frequency	Conductivity,	Dielectric	Conductivity,	Dielectric	% dev σ	% dev ε							
Performed on:		Calibration (°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε									
			5180	5.160	47.582	5.276	49.041	-2.20%	-2.98%							
			5190	5.173	47.570	5.288	49.028	-2.17%	-2.97%							
			5200	5.188	47.547	5.299	49.014	-2.09%	-2.99%							
			5210	5.199	47.525	5.311	49.001	-2.11%	-3.01%							
			5220	5.211	47.514	5.323	48.987	-2.10%	-3.01%							
			5240	5.244	47.465	5.346	48.960	-1.91%	-3.05%							
			5250	5.256	47.432	5.358	48.947	-1.90%	-3.10%							
			5260	5.266	47.403	5.369	48.933	-1.92%	-3.13%							
			5270	5.277	47.394	5.381	48.919	-1.93%	-3.12%							
			5280	5.293	47.390	5.393	48.906	-1.85%	-3.10%							
			5290	5.308	47.384	5.404	48.892	-1.78%	-3.08%							
			5300	5.321	47.377	5.416	48.879	-1.75%	-3.07%							
			5310	5.336	47.358	5.428	48.865	-1.69%	-3.08%							
			5320	5.350	47.339	5.439	48.851	-1.64%	-3.10%							
			5500	5.596	47.023	5.650	48.607	-0.96%	-3.26%							
			5510	5.611	47.005	5.661	48.594	-0.88%	-3.27%							
			5520	5.627	46.996	5.673	48.580	-0.81%	-3.26%							
							5530	5.643	46.980	5.685	48.566	-0.74%	-3.27%			
			5540	5.657	46.956	5.696	48.553	-0.68%	-3.29%							
									5550	5.671	46.936	5.708	48.539	-0.65%	-3.30%	
			5560	5.685	46.922	5.720	48.526	26 -0.61% -3.3	-3.31%							
07/11/2021	5200-5800	24.0	5580	5.715	46.892	5.743	48.499		-3.31%							
	Body	24.0	21.0	21.0	2	21.0		20		5600	5.740	46.849	5.766	48.471	-0.45%	-3.35%
			5610	5.754	46.835	5.778	48.458	-0.42%	-3.35%							
			5620	5.768	46.823	5.790	48.444	-0.38%	-3.35%							
			5640	5.794	46.786	5.813	48.417	-0.33%	-3.37%							
			5660	5.824	46.751	5.837	48.390	-0.22%	-3.39%							
			5670	5.838	46.736	5.848	48.376	-0.17%	-3.39%							
			5680	5.851	46.724	5.860	48.363	-0.15%	-3.39%							
								_		5690	5.864	46.706	5.872	48.349	-0.14%	-3.40%
										5700	5.878	46.687	5.883	48.336	-0.08%	-3.41%
										5710	5.891	46.672	5.895	48.322	-0.07%	-3.41%
			5720	5.905	46.650	5.907	48.309	-0.03%	-3.43%							
			5745	5.941	46.600	5.936	48.275	0.08%	-3.47%							
			-	-	-	5750	5.947	46.593	5.942	48.268	0.08%	-3.47%				
						5755	5.953	46.588	5.947	48.261	0.10%	-3.47%				
			5765	5.964	46.572	5.959	48.248	0.08%	-3.47%							
			5775	5.977	46.548	5.971	48.234	0.10%	-3.50%							
			5785	5.988	46.528	5.982	48.220	0.10%	-3.51%							
			5795	6.000	46.516	5.994	48.207	0.10%	-3.51%							
			5800	6.007	46.511	6.000	48.200	0.12%	-3.50%							
			5805	6.016	46.505	6.006	48.193	0.17%	-3.50%							
			5825	6.045	46.449	6.029	48.166	0.27%	-3.56%							
	I .	I .							1							

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.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be post of @ element	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:		D 05 107	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset		Page 65 of 137	
21 PCTEST				REV 21.4 M	

© 2021 PCTEST

10.2 Test System Verification

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

Table 10-7
System Verification Results – 1g

System verincation Results – 19												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
E	750	HEAD	07/05/2021	22.2	20.7	0.2	1161	7571	1.68	8.03	8.400	4.61%
E	835	HEAD	06/28/2021	22.7	22.5	0.2	4d132	7571	1.92	9.66	9.600	-0.62%
Р	1750	HEAD	07/06/2021	21.5	20.2	0.1	1148	7308	3.31	35.90	33.100	-7.80%
I	1900	HEAD	07/12/2021	22.0	21.7	0.1	5d149	7551	3.98	39.30	39.800	1.27%
E	2450	HEAD	07/07/2021	25.0	24.0	0.1	719	7571	5.28	51.40	52.800	2.72%
E	2450	HEAD	07/11/2021	24.0	22.0	0.1	719	7571	5.39	51.40	53.900	4.86%
E	2450	HEAD	07/31/2021	24.2	22.9	0.1	719	7571	5.46	51.40	54.600	6.23%
E	2600	HEAD	07/11/2021	24.0	22.0	0.1	1064	7571	5.83	58.10	58.300	0.34%
K	5250	HEAD	07/09/2021	23.5	21.0	0.1	1191	7538	3.82	79.80	76.400	-4.26%
K	5600	HEAD	07/09/2021	23.5	21.0	0.1	1191	7538	4.18	81.80	83.600	2.20%
K	5750	HEAD	07/09/2021	23.5	21.0	0.1	1191	7538	3.81	79.30	76.200	-3.91%
G	750	BODY	06/28/2021	22.0	21.2	0.2	1003	7357	1.71	8.61	8.550	-0.70%
G	750	BODY	06/30/2021	22.6	21.0	0.2	1003	7357	1.78	8.61	8.900	3.37%
G	750	BODY	07/06/2021	23.2	22.1	0.2	1161	7357	1.78	8.43	8.900	5.58%
Н	835	BODY	06/29/2021	25.0	23.0	0.2	4d047	7410	1.97	9.47	9.850	4.01%
Н	835	BODY	07/04/2021	24.8	22.8	0.2	4d133	7409	2.04	9.75	10.200	4.62%
Р	1750	BODY	06/28/2021	21.2	21.4	0.1	1148	7308	3.73	36.30	37.300	2.75%
Р	1750	BODY	06/30/2021	21.6	21.3	0.1	1148	7308	3.62	36.30	36.200	-0.28%
D	1750	BODY	07/13/2021	24.1	23.5	0.1	1150	3589	3.86	36.60	38.600	5.46%
D	1900	BODY	07/05/2021	23.0	23.2	0.1	5d149	3589	4.07	39.40	40.700	3.30%
I	1900	BODY	07/15/2021	23.4	22.3	0.1	5d149	7551	4.30	39.40	43.000	9.14%
L	2450	BODY	07/06/2021	21.0	24.5	0.1	981	7539	4.80	50.10	48.000	-4.19%
L	2450	BODY	07/08/2021	22.1	24.3	0.1	981	7539	4.85	50.10	48.500	-3.19%
K	2450	BODY	07/14/2021	23.6	24.2	0.1	719	7538	5.16	50.70	51.600	1.78%
K	2600	BODY	07/14/2021	23.6	24.2	0.1	1064	7538	5.54	55.60	55.400	-0.36%
J	5250	BODY	07/04/2021	21.3	22.5	0.1	1191	7526	3.52	74.60	70.400	-5.63%
J	5250	BODY	07/11/2021	22.1	22.0	0.1	1191	7526	3.65	74.60	73.000	-2.14%
J	5600	BODY	07/04/2021	21.3	22.5	0.1	1191	7526	3.62	78.10	72.400	-7.30%
J	5600	BODY	07/11/2021	22.1	22.0	0.1	1191	7526	3.72	78.10	74.400	-4.74%
J	5750	BODY	07/04/2021	21.3	22.5	0.1	1191	7526	3.59	74.90	71.800	-4.14%
J	5750	BODY	07/11/2021	22.1	22.0	0.1	1191	7526	3.50	74.90	70.000	-6.54%

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogo 60 of 127	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 66 of 137	

Table 10-8 System Verification Results - 10a

	Cyclom Vormound 10g													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR10g (W/kg)	1W Target SAR10g (W/kg)	1W Normalized SAR10g (W/kg)	Deviation10g (%)		
Р	1750	BODY	06/30/2021	21.6	21.3	0.1	1148	7308	1.900	19.30	19.000	-1.55%		
D	1900	BODY	07/12/2021	23.3	22.4	0.1	5d080	3589	2.150	20.60	21.500	4.37%		
K	2450	BODY	07/14/2021	23.6	24.2	0.1	719	7538	2.360	23.90	23.600	-1.26%		
K	2600	BODY	07/14/2021	23.6	24.2	0.1	1064	7538	2.440	25.00	24.400	-2.40%		
J	5250	BODY	07/04/2021	21.3	22.5	0.1	1191	7526	0.990	21.00	19.800	-5.71%		
J	5600	BODY	07/04/2021	21.3	22.5	0.1	1191	7526	1.000	21.70	20.000	-7.83%		
J	5750	BODY	07/04/2021	21.3	22.5	0.1	1191	7526	1.010	20.80	20.200	-2.88%		

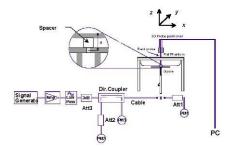


Figure 10-1 System Verification Setup Diagram



Figure 10-2 System Verification Setup Photo

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 67 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 67 of 137

11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

Table 11-1 GSM 850 Head SAR - Open

						<u> </u>	id OAIT Open							
	MEASUREMENT RESULTS													
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position	Number	, -,	(W/kg)	Factor	(W/kg)	1
824.20	128	GSM 850	GSM	33.0	32.70	0.10	Right	Cheek	M0800	1:8.3	0.171	1.072	0.183	A1
824.20	128	GSM 850	GSM	33.0	32.70	0.01	Right	Tilt	M0800	1:8.3	0.082	1.072	0.088	
824.20	128	GSM 850	GSM	33.0	32.70	0.11	Left	Cheek	M0800	1:8.3	0.113	1.072	0.121	
824.20	128	GSM 850	GSM	33.0	32.70	0.06	Left	Tilt	M0800	1:8.3	0.066	1.072	0.071	
		ANSI / IEEE C	C95.1 1992 - S	SAFETY LIMIT	Г						Head			
			Spatial Peak				1.6 W/kg (mW/g)							
		Uncontrolled E					avera	ged over 1 gr	am					

Table 11-2 GMS 1900 Head SAR - Open

					Citio	10001	ieau OAIX - Open								
	MEASUREMENT RESULTS														
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	# of Time	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position	Number	Slots		(W/kg)	Factor	(W/kg)	
1850.20	512	GSM 1900	GSM	30.0	28.86	0.13	Right	Cheek	0405M	1	1:8.3	0.035	1.300	0.046	
1850.20	512	GSM 1900	GSM	30.0	28.86	-0.19	Right	Tilt	0405M	1	1:8.3	0.029	1.300	0.038	
1850.20	512	GSM 1900	GSM	30.0	28.86	0.03	Left	Cheek	0405M	1	1:8.3	0.052	1.300	0.068	A2
1850.20	512	GSM 1900	GSM	30.0	28.86	0.10	Left	Tilt	0405M	1	1:8.3	0.023	1.300	0.030	
		ANSI / IEEE C						He	ead						
	Spatial Peak							1.6 W/kg (mW/g)							
	Uncontrolled Exposure/General Population							averaged over 1 gram							

Table 11-3 UMTS 850 Head SAR - Open

						о пеа	u SAI	t – Ор	en					
	MEASUREMENT RESULTS													
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Side	Test	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Position	Number	, ., .	(W/kg)	Factor	(W/kg)	
826.40	4132	UMTS 850	RMC	25.5	24.27	-0.06	Right	Cheek	M0800	1:1	0.302	1.327	0.401	A3
826.40	4132	UMTS 850	RMC	25.5	24.27	0.01	Right	Tilt	M0800	1:1	0.158	1.327	0.210	
826.40	4132	UMTS 850	RMC	25.5	24.27	0.14	Left	Cheek	M0800	1:1	0.203	1.327	0.269	
826.40	826.40 4132 UMTS 850 RMC 25.5 24.27 0.02								M0800	1:1	0.127	1.327	0.169	
		ANSI / IEEE C						Head						
				1.6 W/kg (mW/g)										
	Uncontrolled Exposure/General Population							averaged over 1 gram						

	FCC ID: A3LSMF711JPN	Proud to be part of the General	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
	Document S/N:	Test Dates:	DUT Type:		Daga 60 of 127
	1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset		Page 68 of 137
© 202	1 PCTEST				REV 21.4 M

Table 11-4 LTE Band 12 Head SAR - Open

										uu O,	111 - O	PUI							
								MEASU	REMEN	T RESU	LTS								
FF	REQUENCY	(Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number	, -,	(W/kg)	Factor	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.09	0	Right	Cheek	QPSK	1	0	M0800	1:1	0.148	1.178	0.174	A4
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	-0.06	1	Right	Cheek	QPSK	25	0	M0800	1:1	0.101	1.148	0.116	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.04	0	Right	Tilt	QPSK	1	0	M0800	1:1	0.058	1.178	0.068	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.10	1	Right	Tilt	QPSK	25	0	M0800	1:1	0.040	1.148	0.046	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	0.09	0	Left	Cheek	QPSK	1	0	M0800	1:1	0.120	1.178	0.141	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.05	1	Left	Cheek	QPSK	25	0	M0800	1:1	0.094	1.148	0.108	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	0.09	0	Left	Tilt	QPSK	1	0	M0800	1:1	0.056	1.178	0.066	
707.50	23095 Mid LTE Band 12 10 23.0 22.40 0.1								Left	Tilt	QPSK	25	0	M0800	1:1	0.041	1.148	0.047	
			ANSI / IEEE C	95.1 1992 -	SAFETY LIM	IT								Head					
				Spatial Pea	k								1.6	W/kg (mV	V/g)				
			Uncontrolled Ex	posure/Ge	neral Popula	tion							avera	aged over 1	gram				

Table 11-5 LTE Band 13 Head SAR - Open

								MEASU	REMEN	T RESU		P • · · ·							
FI	REQUENCY	(Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number		(W/kg)	Factor	(W/kg)	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.04	0	Right	Cheek	QPSK	1	0	0030M	1:1	0.132	1.208	0.159	A5
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.03	1	Right	Cheek	QPSK	25	25	0030M	1:1	0.113	1.156	0.131	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.13	0	Right	Tilt	QPSK	1	0	0030M	1:1	0.080	1.208	0.097	
782.00	782.00 23230 Mid LTE Band 13 10 23.0 22.37 -0.07 1 Right										QPSK	25	25	0030M	1:1	0.061	1.156	0.071	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.14	0	Left	Cheek	QPSK	1	0	0030M	1:1	0.125	1.208	0.151	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.09	1	Left	Cheek	QPSK	25	25	0030M	1:1	0.107	1.156	0.124	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.18	0	Left	Tilt	QPSK	1	0	0030M	1:1	0.076	1.208	0.092	
782.00	23230	Mid	LTE Band 13	1	Left	Tilt	QPSK	25	25	0030M	1:1	0.060	1.156	0.069					
			ANSI / IEEE C							Hea									
			Uncontrolled Ex	Spatial Pea posure/Ge		ation							á	averaged ov					

Table 11-6 LTE Band 5 (Cell) Head SAR - Open

								MEASU	REMEN	IT RESU	LTS								
FI	REQUENCY	(Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	(,==,		Position				Number	, _,	(W/kg)	Factor	(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.7	25.11	-0.02	0	Right	Cheek	QPSK	1	25	M0800	1:1	0.274	1.146	0.314	A6
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.7	24.23	-0.02	1	Right	Cheek	QPSK	25	12	M0800	1:1	0.220	1.114	0.245	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.7	25.11	0.01	0	Right	Tilt	QPSK	1	25	M0800	1:1	0.148	1.146	0.170	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.7	24.23	0.11	1	Right	Tilt	QPSK	25	12	M0800	1:1	0.118	1.114	0.118	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.7	25.11	0.19	0	Left	Cheek	QPSK	1	25	M0800	1:1	0.233	1.146	0.267	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.7	24.23	0.06	1	Left	Cheek	QPSK	25	12	M0800	1:1	0.190	1.114	0.212	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.7	25.11	0.08	0	Left	Tilt	QPSK	1	25	M0800	1:1	0.145	1.146	0.166	
836.50	20525	Mid	LTE Band 5 (Cell)	10	0.03	1	Left	Tilt	QPSK	25	12	M0800	1:1	0.117	1.114	0.130			
			ANSI / IEEE C									Hea							
			Uncontrolled Ex	Spatial Pea		tion								1.6 W/kg averaged ov	,				

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 60 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 69 of 137

Table 11-7 LTE Band 4 (AWS) Head SAR - Open

											07111	- 1-							
								MEASU	REMEN	T RESU	LTS								
FF	REQUENC	Y	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	c	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number		(W/kg)	Factor	(W/kg)	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	0.16	0	Right	Cheek	QPSK	1	50	0006M	1:1	0.087	1.225	0.107	A7
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	0.18	1	Right	Cheek	QPSK	50	25	0006M	1:1	0.061	1.178	0.072	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	0.14	0	Right	Tilt	QPSK	1	50	0006M	1:1	0.032	1.225	0.039	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	0.12	1	Right	Tilt	QPSK	50	25	1:1	0.019	1.178	0.022		
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	0.12	0	Left	Cheek	QPSK	1	50	0006M	1:1	0.039	1.225	0.048	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	0.11	1	Left	Cheek	QPSK	50	25	0006M	1:1	0.030	1.178	0.035	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	0.18	0	Left	Tilt	QPSK	1	50	0006M	1:1	0.033	1.225	0.040	
1732.50	20175 Mid LTE Band 4 (AWS) 20 23.0 22.29 0.19								Left	Tilt	QPSK	50	25	0006M	1:1	0.020	1.178	0.024	
_		ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Hea	nd	<u> </u>			
				Spatial Pea										1.6 W/kg	(mW/g)				
			Uncontrolled Ex						6	averaged ov	er 1 gram								

Table 11-8 LTE Band 41 Head SAR - Open

							ь Ба	11U 4 1	1100	au o	~!\	- Op	CII								
								MEASU	REMENT	resul	.TS										
1 CC Uplink 2 CC Uplink,	Component	FI	REQUENC	Y	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Side	Test	Modulation	RB Size	RB Offset	Device Serial	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
Power Class	Carrier	MHz	c	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Position				Number	., .,	(W/kg)	Factor	(W/kg)	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	0.11	0	Right	Cheek	QPSK	1	50	M0800	1:1.58	0.068	1.033	0.070	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	0.10	1	Right	Cheek	QPSK	50	50	M0800	1:1.58	0.058	1.014	0.059	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	0.15	0	Right	Tilt	QPSK	1	50	M0800	1:1.58	0.053	1.033	0.055	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	0.18	1	Right	Tilt	QPSK	50	50	M0800	1:1.58	0.044	1.014	0.045	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.36	0.17	0	Left	Cheek	QPSK	1	0	M0800	1:1.58	0.099	1.159	0.115	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	0.03	0	Left	Cheek	QPSK	1	50	M0800	1:1.58	0.119	1.033	0.123	A8
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	0.13	1	Left	Cheek	QPSK	50	50	M0800	1:1.58	0.105	1.014	0.106	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	25.0	24.69	0.19	0	Left	Cheek	QPSK	1	0	0080M	1:1.58	0.112	1.074	0.120	
2 CC Uplink - Power Class 3	scc	2660.20	41292	nign	LIE Band 41	20	25.0	24.69	0.19	0	Lert	Cheek	UPSK	1	99	UUBUW	1:1.58	0.112	1.074	0.120	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	0.11	0	Left	Tilt	QPSK	1	50	M0800	1:1.58	0.046	1.033	0.048	
1 CC Uplink - Power Class 3	er Class 3 N/A 2680.00 41490 High LTE Band 41 20 24.0 23.94									1	Left	Tilt	QPSK	50	50	0080M	1:1.58	0.041	1.014	0.042	
			ANSI / II		1 1992 - SAFETY	LIMIT										Hea					
					atial Peak											1.6 W/kg					
		U	ncontrol	lled Expo	sure/General Po	pulation									a	averaged ov	ver 1 gram				

Table 11-9 DTS Head SAR - Open

							וט	<u>Э п</u>	tau s	DAR - C	per	1							
								MEAS	UREME	NT RESULT	s								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Side	Test	Antenna Config.	Device Serial	Data Rate	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Dritt [dB]		Position		Number	(Mbps)	(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	13.0	12.99	0.12	Right	Cheek	2	0710M	1	99.9	0.580	0.243	1.002	1.001	0.244	
2437	6	802.11b	DSSS	22	13.0	12.99	0.12	Right	Tilt	2	0710M	1	99.9	0.393	-	1.002	1.001	-	
2437	6	802.11b	DSSS	22	13.0	12.99	0.13	Left	Cheek	2	0710M	1	99.9	0.089	-	1.002	1.001	-	
2437	6	802.11b	DSSS	22	12.99	-0.01	Left	Tilt	2	0710M	1	99.9	0.075	-	1.002	1.001	-		
		ANSI / I	EEE C95.1 19								Head								
		ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak											1.6	W/kg (mW/	g)				
		Uncontro	lled Exposure	e/General P							aver	aged over 1 g	ram						

FCC ID: A	A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Documen	nt S/N:	Test Dates:	DUT Type:	Dogg 70 of 427
1M210610	00066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 70 of 137

Table 11-10 DTS MIMO Head SAR - Open

								ME	EASURE	MENT	RESULT	s									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed	Conducted Power (Ant 2)	Power	Side	Test	Antenna	Device Serial	Data Rate	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	[dBm]	[dBm]	υτιπ (αΒ)		Position	Config.	Number	(Mbps)	(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2462	11	802.11n	OFDM	20	13.0	12.84	13.0	12.63	0.05	Right	Cheek	MIMO	0710M	13	99.7	0.668	0.348	1.089	1.003	0.380	A9
2462	11	802.11n	OFDM	20	13.0	12.84	13.0	12.63	0.15	Right	Tilt	MIMO	0710M	13	99.7	0.388		1.089	1.003	-	
2462	11	802.11n	OFDM	20	13.0	12.84	13.0	12.63	0.17	Left	Cheek	MIMO	0710M	13	99.7	0.244		1.089	1.003	-	
2462	11	802.11n	OFDM	12.63	0.15	Left	Tilt	MIMO	0710M	13	99.7	0.251	-	1.089	1.003	-					
			ANSI / IE	EE C95.1 1	992 - SAFET	YLIMIT										Head					
										•	1.6 W/kg (mV	V/g)									
									av	eraged over 1	gram										

Note: To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 13.0 dBm.

Table 11-11 NII SISO Head SAR - Open

								MEASL	JREMEN	T RESUL	TS								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Side	Test	Antenna	Device Serial	Data Rate	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Position	Config.	Number	(Mbps)	(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5290	58	802.11ac	OFDM	80	11.0	10.69	0.07	Right	Cheek	1	0880M	29.3	99.7	0.060	-	1.074	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.69	0.17	Right	Tilt	1	0880M	29.3	99.7	0.058	-	1.074	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.69	0.13	Left	Cheek	1	0880M	29.3	99.7	0.085	0.052	1.074	1.003	0.056	
5290	58	802.11ac	OFDM	80	11.0	10.69	0.13	Left	Tilt	1	0880M	29.3	99.7	0.084	-	1.074	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.96	0.14	Right	Cheek	1	0880M	29.3	99.7	0.096	-	1.009	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.96	0.07	Right	Tilt	1	0880M	29.3	99.7	0.094	-	1.009	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.96	-0.13	Left	Cheek	1	0880M	29.3	99.7	0.106	-	1.009	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.96	0.21	Left	Tilt	1	0880M	29.3	99.7	0.109	0.077	1.009	1.003	0.078	
5775	155	802.11ac	OFDM	80	11.0	10.85	0.13	Right	Cheek	1	0880M	29.3	99.7	0.091	-	1.035	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	-0.18	Right	Tilt	1	0880M	29.3	99.7	0.076	-	1.035	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	0.01	Left	Cheek	1	0880M	29.3	99.7	0.105	-	1.035	1.003	-	
5775	155								Tilt	1	0880M	29.3	99.7	0.117	0.069	1.035	1.003	0.072	
		ANSI / II	EEE C95.1 19 Spatial		Y LIMIT					•				Head .6 W/kg (mW	//a)	•	•	•	
		Uncontro	lled Exposure		opulation									eraged over 1	٠,				

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 74 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 71 of 137

Table 11-12 NII MIMO Head SAR - Open

	Till Millio Tica								du OAN Open												
	MEASUREMENT RESULTS																				
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Side	Test	Antenna	Device Serial	al Rate	Duty Cycle	Peak SAR of Area Scan SAR (1g)	SAR (1g)	Scaling Factor	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	[dBm]	[dBm]	Drift [dB]		Position	Config.	Number		(%)	W/kg	(W/kg)	(Power)		(W/kg)	
5290	58	802.11ac	OFDM	80	11.0	10.69	11.0	10.95	0.04	Right	Cheek	MIMO	0880M	58.5	99.7	0.197	0.165	1.074	1.003	0.178	A10
5290	58	802.11ac	OFDM	80	11.0	10.69	11.0	10.95	-0.05	Right	Tilt	MIMO	0880M	58.5	99.7	0.119		1.074	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.69	11.0	10.95	-0.04	Left	Cheek	MIMO	0880M	58.5	99.7	0.095		1.074	1.003		
5290	58	802.11ac	OFDM	80	11.0	10.69	11.0	10.95	-0.14	Left	Tilt	MIMO	0880M	58.5	99.7	0.098	-	1.074	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.96	11.0	10.73	-0.04	Right	Cheek	MIMO	0880M	58.5	99.7	0.145	0.104	1.064	1.003	0.111	
5690	138	802.11ac	OFDM	80	11.0	10.96	11.0	10.73	-0.04	Right	Tilt	MIMO	0880M	58.5	99.7	0.089		1.064	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.96	11.0	10.73	-0.05	Left	Cheek	MIMO	0880M	58.5	99.7	0.104		1.064	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.96	11.0	10.73	-0.19	Left	Tilt	MIMO	0880M	58.5	99.7	0.100		1.064	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.67	0.04	Right	Cheek	MIMO	0880M	58.5	99.7	0.287	0.164	1.079	1.003	0.177	
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.67	-0.02	Right	Tilt	MIMO	0880M	58.5	99.7	0.162		1.079	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.67	0.04	Left	Cheek	MIMO	0880M	58.5	99.7	0.162	-	1.079	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.67	0.05	Left	Tilt	MIMO	0880M	58.5	99.7	0.142		1.079	1.003	-	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Head												
	Spatial Peak								1.6 W/kg (mW/g)												
	Uncontrolled Exposure/General Population								averaged over 1 gram												

Note: To achieve the 14.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 11.0 dBm.

Table 11-13 DSS Head SAR - Open

	Boo ficad OAN - Open																
	MEASUREMENT RESULTS																
FREQUE	NCY	Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.												(W/kg)	Power)	Cycle)	(W/kg)	
2441.00	39	Bluetooth	FHSS	10.0	8.62	0.15	Right	Cheek	1	0710M	1	76.80	0.039	1.374	1.302	0.070	
2441.00	39	Bluetooth	FHSS	10.0	8.62	0.17	Right	Tilt	1	0710M	1	76.80	0.027	1.374	1.302	0.048	
2441.00	39	Bluetooth	FHSS	10.0	8.62	0.16	Left	Cheek	1	0710M	1	76.80	0.072	1.374	1.302	0.129	
2441.00	39	Bluetooth	FHSS	10.0	8.62	0.04	Left	Tilt	1	0710M	1	76.80	0.063	1.374	1.302	0.113	
2441.00	39	Bluetooth	FHSS	10.0	9.29	0.14	Right	Cheek	2	0710M	1	76.80	0.123	1.178	1.302	0.189	A11
2441.00	39	Bluetooth	FHSS	10.0	9.29	0.18	Right	Tilt	2	0710M	1	76.80	0.069	1.178	1.302	0.106	
2441.00	39	Bluetooth	FHSS	10.0	9.29	0.13	Left	Cheek	2	0710M	1	76.80	0.024	1.178	1.302	0.037	
2441.00	39	Bluetooth	FHSS	10.0	9.29	0.19	Left	Tilt	2	0710M	1	76.80	0.018	1.178	1.302	0.028	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Head									
	Spatial Peak							1.6 W/kg (mW/g)									
	Uncontrolled Exposure/General Population							averaged over 1 gram									

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 70 of 407
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 72 of 137

11.2 Standalone Body-Worn SAR Data

Table 11-14 GSM/UMTS Body-Worn SAR Data

					00.11,	J. 11 1 0		y-110111	0,	Duta	•					
						MEAS	SUREM	ENT RESUI	_TS							
FREQUI	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Configuration	Device Serial	# of Time	Duty Cycle	Side	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		g	Number	Slots	, -,		(W/kg)	Factor	(W/kg)	
824.20	128	GSM 850	GSM	33.0	32.70	-0.01	15 mm	Open	0015M	1	1:8.3	back	0.120	1.072	0.129	
824.20	128	GSM 850	GSM	33.0	32.70	-0.01	15 mm	Closed	0006M	1	1:8.3	back	0.236	1.072	0.253	A12
1850.20	512	GSM 1900	GSM	30.0	28.86	-0.01	15 mm	Open	0006M	1	1:8.3	back	0.385	1.300	0.501	A14
1850.20	512	GSM 1900	GSM	30.0	28.86	0.04	15 mm	Closed	0006M	1	1:8.3	back	0.157	1.300	0.204	
826.40	4132	UMTS 850	RMC	25.5	24.27	0.02	15 mm	Open	0030M	N/A	1:1	back	0.249	1.327	0.330	
826.40	4132	UMTS 850	RMC	25.5	24.27	-0.02	15 mm	Closed	0030M	N/A	1:1	back	0.352	1.327	0.467	A16
		ANSI / IEEE (95.1 1992 - S	AFETY LIMIT								Body				
			Spatial Peak								1.6 W	/kg (mV	//g)			
		Uncontrolled E	xposure/Gen	eral Populati	on						average	d over 1	gram			

Table 11-15 LTE Body-Worn SAR

								М	EASUREMEN	IT RESU										
FI	REQUENCY	′	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Configuration	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.	mode	[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	iiii it [dD]	Comiguration	Number	modulation	ND GIZE	TLD GIIGGE	Opaomg	Oldo	buty Gyord	(W/kg)	Factor	(W/kg)	1101#
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.03	0	Open	0026M	QPSK	1	0	15 mm	back	1:1	0.149	1.178	0.176	A18
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	-0.01	1	Open	0026M	QPSK	25	0	15 mm	back	1:1	0.123	1.148	0.141	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.02	0	Closed	0037M	QPSK	1	0	15 mm	back	1:1	0.108	1.178	0.127	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.00	1	Closed	0037M	QPSK	25	0	15 mm	back	1:1	0.102	1.148	0.117	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.18	0	Open	0026M	QPSK	1	0	15 mm	back	1:1	0.131	1.208	0.158	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.02	1	Open	0026M	QPSK	25	25	15 mm	back	1:1	0.119	1.156	0.138	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.01	0	Closed	0026M	QPSK	1	0	15 mm	back	1:1	0.215	1.208	0.260	A20
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.08	1	Closed	0026M	QPSK	25	25	15 mm	back	1:1	0.183	1.156	0.212	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.7	25.11	-0.02	0	Open	0030M	QPSK	1	25	15 mm	back	1:1	0.231	1.146	0.265	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.7	24.23	0.01	1	Open	0030M	QPSK	25	12	15 mm	back	1:1	0.187	1.114	0.208	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.7	25.11	-0.02	0	Closed	0030M	QPSK	1	25	15 mm	back	1:1	0.328	1.146	0.376	A22
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.7	24.23	-0.05	1	Closed	0030M	QPSK	25	12	15 mm	back	1:1	0.270	1.114	0.301	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	0.03	0	Open	0006M	QPSK	1	50	15 mm	back	1:1	0.545	1.225	0.668	A24
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	0.01	1	Open	0006M	QPSK	50	25	15 mm	back	1:1	0.448	1.178	0.528	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	-0.10	0	Closed	0006M	QPSK	1	50	15 mm	back	1:1	0.222	1.225	0.272	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	-0.03	1	Closed	0006M	QPSK	50	25	15 mm	back	1:1	0.183	1.178	0.216	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT														Во	•				
			Uncontr		tial Peak	Population										(mW/g)				
			Uncontr	olled Expos	sure/General	Population								av	eraged o	ver 1 gram	1			

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 72 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 73 of 137

Table 11-16 LTE Band 41 Body-Worn SAR

								М	EASURE	EMENT RE	SULTS											
1 CC Uplink 2 CC Uplink,	Component	FF	REQUENC	Y	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Configuration	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
Power Class	Carrier	MHz	C	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	. ,		Number				.,		. , .,	(W/kg)	Factor	(W/kg)	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.36	0.01	0	Open	0080M	QPSK	1	0	15 mm	back	1:1.58	0.201	1.159	0.233	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	0.02	0	Open	0080M	QPSK	1	50	15 mm	back	1:1.58	0.229	1.033	0.237	A26
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	-0.08	1	Open	0080M	QPSK	50	50	15 mm	back	1:1.58	0.160	1.014	0.162	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	25.0	24 69	0.05	0	Open	0080M	QPSK		0	15 mm	back	1:1.58	0.226	1.074	0.243	
2 CC Opilik - Fowel Class 3	SCC	2660.20	41292	riigii	ETE Ballo 41	20	23.0	24.05	0.00	Ů	Орен	OODOW	QF SIX	,	99	1311111	Dack	1.1.50	0.220	1.074	0.243	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	-0.05	0	Closed	0080M	QPSK	1	50	15 mm	back	1:1.58	0.192	1.033	0.198	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	0.05	1	Closed	0080M	QPSK	50	50	15 mm	back	1:1.58	0.151	1.014	0.153	
		ANSI			92 - SAFETY LIMI	т										Body						
		Uncon		Spatial F Exposure	Peak /General Populat	ion										V/kg (mV ed over 1						

Table 11-17 DTS Body-Worn SISO SAR

									MEASUREMI	NT RESUL	TS									
FREQU	JENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna Config.	Configuration	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]				Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	18.5	18.40	0.17	15 mm	2	Open	0710M	1	back	99.9	0.058	0.047	1.023	1.001	0.048	
2437	6	802.11b	DSSS	22	18.5	18.40	-0.13	15 mm	2	Closed	0710M	1	back	99.9	0.011	0.009	1.023	1.001	0.009	
		ANSI / II	EEE C95.1 19 Spatial		YLIMIT									Body	-14//\					
		Uncontro	Spatiai lled Exposure		opulation									6 W/kg (m raged over	-					

Table 11-18 DTS MIMO Body-Worn SAR

									MEAS	SUREM	ENT RES	ULTS										
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed	Conducted Power (Ant 2)	Power	Spacing	Antenna	Configuration	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]		Config.		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	18.5	18.49	18.5	18.23	-0.03	15 mm	MIMO	Open	0710M	1	back	99.9	0.182	0.145	1.064	1.001	0.154	A28
2412	1	802.11b	DSSS	22	18.5	18.49	18.5	18.23	0.10	15 mm	MIMO	Closed	0710M	1	back	99.9	0.060	0.048	1.064	1.001	0.051	
			ANSI / IE		1992 - SAFET	Y LIMIT											lody			•		
				Spatia	al Peak											1.6 W/I	kg (mW/g)					
			Uncontrol	ed Exposu	re/General P									averaged	over 1 gram							

Note: To achieve the 21.5 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.5 dBm.

Table 11-19 NII SISO Body-Worn SAR

										, u. j i i i										
								M	EASUREI	MENT RESI	JLTS									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Configuration	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5300	60	802.11a	OFDM	20	18.0	17.66	-0.11	15 mm	1	Open	0880M	6	back	98.9	0.059	0.029	1.081	1.011	0.032	
5300	60	802.11a	OFDM	20	18.0	17.66	0.01	15 mm	1	Closed	0880M	6	back	98.9	0.007	0.000	1.081	1.011	0.000	
5600	120	802.11a	OFDM	20	18.0	17.92	-0.12	15 mm	1	Open	0880M	6	back	98.9	0.079	0.045	1.019	1.011	0.046	
5600	120	802.11a	OFDM	20	18.0	17.92	0.13	15 mm	1	Closed	0880M	6	back	98.9	0.000	0.000	1.019	1.011	0.000	
5745	149	802.11a	OFDM	20	18.0	17.87	0.13	15 mm	1	Open	0880M	6	back	98.9	0.092	0.056	1.030	1.011	0.058	
5745	149	802.11a	OFDM	20	18.0	17.87	0.11	15 mm	1	Closed	0880M	6	back	98.9	0.018	0.000	1.030	1.011	0.000	
		ANSI / I	EEE C95.1 19	92 - SAFET	YLIMIT		•							E	Body					
			Spatial	Peak				l						1.6 W/	kg (mW/g)					
		Uncontro	lled Exposure	e/General P	opulation									averaged	over 1 gram					

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 74 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 74 of 137

Table 11-20 NII MIMO Body-Worn SAR

									MEAS	SUREM	ENT RES	ULTS										
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed	Conducted Power (Ant 2)	Power	Spacing	Antenna	Configuration	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]	•	Config.		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5260	52	802.11n	OFDM	20	18.0	17.33	18.0	17.90	0.01	15 mm	MIMO	Open	0880M	13	back	99.7	0.112	0.077	1.167	1.003	0.090	A30
5260	52	802.11n	OFDM	20	18.0	17.33	18.0	17.90	-0.13	15 mm	MIMO	Closed	M0880	13	back	99.7	0.061	0.037	1.167	1.003	0.043	
5600	120	802.11n	OFDM	20	18.0	17.82	18.0	17.87	-0.10	15 mm	MIMO	Open	M0880	13	back	99.7	0.103	0.055	1.042	1.003	0.057	
5600	120	802.11n	OFDM	20	18.0	17.82	18.0	17.87	-0.05	15 mm	MIMO	Closed	M0880	13	back	99.7	0.005	0.000	1.042	1.003	0.000	
5745	149	802.11n	OFDM	20	18.0	17.89	18.0	17.76	0.18	15 mm	MIMO	Open	M0880	13	back	99.7	0.075	0.050	1.057	1.003	0.053	
5745	149	802.11n	OFDM	20	18.0	17.89	18.0	17.76	-0.15	15 mm	MIMO	Closed	M0880	13	back	99.7	0.011	0.004	1.057	1.003	0.004	
			ANSI / IE		1992 - SAFET										ody							
			Uncontrol	Spatia led Exposu										g (mW/g) over 1 gram								

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.0 dBm.

Table 11-21 DSS Body-Worn SAR - Open

						N	IEASUF	REMENT	RESUL	TS							
FREQUI	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	16.0	15.43	0.03	15 mm	1	0710M	1	back	76.8	0.032	1.140	1.302	0.047	A32
2441	39	Bluetooth	FHSS	17.0	16.61	0.14	15 mm	2	0710M	1	back	76.80	0.027	1.094	1.302	0.038	
		ANSI / IEEE (95.1 1992 - S	SAFETY LIMIT									Body				
			Spatial Peak									1.6 W/	kg (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	on							averaged	d over 1 gran	า			

Table 11-22 DSS Body-Worn SAR - Closed

						ı	MEASU	REMENT F	RESULT	rs							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	16.0	15.43	-0.03	15 mm	1	0710M	1	back	76.80	0.011	1.140	1.302	0.016	
2441	39	Bluetooth	FHSS	17.0	16.61	-0.10	15 mm	2	0710M	1	back	76.80	0.004	1.094	1.302	0.006	
		ANSI / IEEE (095.1 1992 - S	AFETY LIMIT	Г							В	ody				
			Spatial Peak									1.6 W/k	g (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	ion							averaged	over 1 gram				

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 75 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 75 of 137

11.3 Standalone Hotspot SAR Data

Table 11-23 GPRS/UMTS Hotspot SAR Data

1						GPR			otspot		Jata						
Part				I			IVIEA	SUKEN	IENI KESU		I	I				Panorted SAP	
			Mode	Service	Allowed			Spacing	Configuration	Serial		Duty Cycle	Side			(1g)	Plot #
Part			0011050	CDDC		20.00	0.44	40	0			4:0.70	h1-		4.000		
									-								
									-								
									-								
													_				
March									-								
March																	A13
Column																	
Section Control Cont																	
Section Sect													front				
1800 180	824.20	128			29.0			5 mm	Closed	M0800			bottom	0.226	1.000		
180.00 180 1	824.20	128	GSM 850	GPRS	29.0	29.00	0.01	5 mm	Closed	M0800	3	1:2.76	right	0.111	1.000	0.111	
188000 681	824.20	128	GSM 850	GPRS	29.0	29.00	0.09	5 mm	Closed	M0800	3	1:2.76	left	0.172	1.000	0.172	
188000 681 GSM 19000 GPRS 21.5 21.02 2.019 10 mm Open 0.006M 3 12.76 front 0.254 1.117 0.284 189000 681 GSM 19000 GPRS 21.5 21.02 0	824.20	128	GSM 850	GPRS	29.0	29.00	-0.13	5 mm	Closed	M0800	3	1:2.76	back	0.816	1.000	0.816	
1880 186	1880.00	661	GSM 1900	GPRS	21.5	21.02	-0.04	10 mm	Open	0006M	3	1:2.76	back	0.353	1.117	0.394	
1880.00 661 GSM 1900 GPRS 21.5 21.02 21.02 21.02 10 mm Open 0006M 3 12.76 1ght 0.056 1.117 0.056 1.180 1880.00 661 GSM 1900 GPRS 21.5 21.02 20.03 5 mm Closed 0.710M 3 12.76 1eht 0.133 1.117 0.424 1.180 1.18	1880.00	661	GSM 1900	GPRS	21.5	21.02	-0.19	10 mm	Open	0006M	3	1:2.76	front	0.254	1.117	0.284	
1880.00 661 GSM 1900 GPRS 21.5 21.02 0.17 0.17m Open 0.006M 3. 12.76 left 0.133 1.117 0.149 1.118 1.119	1880.00	661	GSM 1900	GPRS	21.5	21.02	-0.05	10 mm	Open	0006M	3	1:2.76	bottom	0.523	1.117	0.584	
1880.00 661 CSM 1900 GPRS 21.5 21.02 0.02 5mm Closed 0710M 3 12.76 book 0.380 1.117 0.424 1.118 0.424 0.	1880.00	661	GSM 1900	GPRS	21.5	21.02	0.12	10 mm	Open	0006M	3	1:2.76	right	0.050	1.117	0.056	
1880.00 661 GSM 1900 GPRS 21.5 21.02 0.02 5 mm Closed 0710M 3 12.76 from 0.130 1.117 0.145 180.00 180.00 661 GSM 1900 GPRS 21.5 20.82 -0.10 5 mm Closed 0710M 3 12.76 bottom 0.678 1.168 0.783 180.00 661 GSM 1900 GPRS 21.5 20.82 -0.02 5 mm Closed 0710M 3 12.76 bottom 0.704 1.117 0.786 180.00 661 GSM 1900 GPRS 21.5 20.88 -0.02 5 mm Closed 0710M 3 12.76 bottom 0.704 1.117 0.786 180.00 661 GSM 1900 GPRS 21.5 21.02 0.04 5 mm Closed 0710M 3 12.76 bottom 0.704 1.117 0.047 180.00 661 GSM 1900 GPRS 21.5 21.02 0.04 5 mm Closed 0710M 3 12.76 bottom 0.708 1.117 0.047 180.00 661 GSM 1900 GPRS 21.5 21.02 0.04 5 mm Closed 0710M 3 12.76 bottom 0.783 1.127 0.884 At5 180.00 661 GSM 1900 GPRS 21.5 21.02 0.04 5 mm Closed 0710M 3 12.76 bottom 0.783 1.117 0.047 180.00 661 GSM 1900 GPRS 21.5 21.02 0.002 5 mm Closed 0710M 3 12.76 bottom 0.783 1.117 0.047 180.00 661 GSM 1900 GPRS 21.5 21.02 0.004 5 mm Closed 0710M 3 12.76 bottom 0.783 1.117 0.047 180.00 661 GSM 1900 GPRS 21.5 21.02 0.004 5 mm Closed 0710M 3 12.76 bottom 0.783 1.117 0.047 180.00 661 GSM 1900 GPRS 21.5 21.02 0.004 5 mm Closed 0710M 3 12.76 bottom 0.783 1.117 0.047 180.004 180.0	1880.00	661	GSM 1900	GPRS	21.5	21.02	0.17	10 mm	Open	0006M	3	1:2.76	left	0.133	1.117	0.149	
1880.00 512 GSM 1900 GPRS 21.5 20.82 -0.10 5 mm Closed 0710M 3 12.76 bottom 0.678 1.169 0.793 1880.00 661 GSM 1900 GPRS 21.5 21.02 -0.05 5 mm Closed 0710M 3 12.76 bottom 0.704 1.117 0.786 1900.80 810 GSM 1900 GPRS 21.5 21.02 0.04 5 mm Closed 0710M 3 12.76 bottom 0.704 1.117 0.078 1880.00 661 GSM 1900 GPRS 21.5 21.02 0.04 5 mm Closed 0710M 3 12.76 bottom 0.793 1.127 0.894 A15 1880.00 661 GSM 1900 GPRS 21.5 21.02 0.04 5 mm Closed 0710M 3 12.76 left 0.042 1.117 0.047 1880.00 661 GSM 1900 GPRS 21.5 21.02 0.04 5 mm Closed 0710M 3 12.76 left 0.097 1.117 0.010 1.117 0.010 1880.00 180 180 180 180 180 180 180 180 180 1	1880.00	661	GSM 1900	GPRS	21.5	21.02	0.03	5 mm	Closed	0710M	3	1:2.76	back	0.380	1.117	0.424	
1880.00 661 GSM 1900 GPRS 21.5 21.02 2.098 2.022 5mm Closed 0710M 3 12.76 bottom 0.704 1.117 0.786 1890.80 810 GSM 1900 GPRS 21.5 21.02 2.098 2.022 5mm Closed 0710M 3 12.76 bottom 0.793 1.127 0.894 A15 1880.00 661 GSM 1900 GPRS 21.5 21.02 2.002 5mm Closed 0710M 3 12.76 bottom 0.793 1.127 0.894 A15 1880.00 661 GSM 1900 GPRS 21.5 21.02 2.002 5mm Closed 0710M 3 12.76 bottom 0.793 1.117 0.004 1.117 0.004 1.118 0.004 1.117 0.004 1.118 0.004 0.00	1880.00	661	GSM 1900	GPRS	21.5	21.02	0.02	5 mm	Closed	0710M	3	1:2.76	front	0.130	1.117	0.145	
1909.80 190 1909.80 190 1909.80 19	1850.20	512	GSM 1900	GPRS	21.5	20.82	-0.10	5 mm	Closed	0710M	3	1:2.76	bottom	0.678	1.169	0.793	
1880.00 661 GSM 1900 GPRS 21.5 21.02 2.04 5mm Closed 0710M 3 12.76 right 0.042 1.117 0.047 1880.00 661 GSM 1900 GPRS 21.5 21.02 -0.02 5mm Closed 0710M 3 12.76 left 0.097 1.117 0.108 1800.00	1880.00	661	GSM 1900	GPRS	21.5	21.02	-0.05	5 mm	Closed	0710M	3	1:2.76	bottom	0.704	1.117	0.786	
1880.00 661 GSM 1900 GPRS 21.5 21.02 -0.02 5 mm Closed 0710M 3 1:2.76 left 0.097 1.117 0.108 1.064 0.310 1.064 0.3	1909.80	810	GSM 1900	GPRS	21.5	20.98	-0.02	5 mm	Closed	0710M	3	1:2.76	bottom	0.793	1.127	0.894	A15
826.40 4132 UMTS 850 RMC 24.0 23.73 -0.11 10 mm Open 0080M NA 1:1 back 0.291 1.064 0.310 1 mm Open 0080M NA 1:1 back 0.291 1.064 0.186 1.0	1880.00	661	GSM 1900	GPRS	21.5	21.02	0.04	5 mm	Closed	0710M	3	1:2.76	right	0.042	1.117	0.047	
826.40 4132 UMTS 850 RMC 24.0 23.73 -0.02 10 mm Open 0080M N/A 1:1 front 0.175 1.064 0.186 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.02 10 mm Open 0080M N/A 1:1 bottom 0.120 1.064 0.128 826.40 4132 UMTS 850 RMC 24.0 23.73 0.01 10 mm Open 0080M N/A 1:1 left 0.083 1.064 0.242 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.01 10 mm Open 0080M N/A 1:1 left 0.083 1.064 0.088 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.01 5 mm Closed 0.066M N/A 1:1 back 0.718 1.064 0.764 826.40 4132 UMTS 850 RMC 24.0 23.53 -0.03 5 mm Closed 0.066M N/A 1:1 back 0.789 1.114 0.879 A17 846.60 4233 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0.066M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0.066M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0.066M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0.066M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.05 5 mm Closed 0.066M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.05 5 mm Closed 0.066M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.05 5 mm Closed 0.066M N/A 1:1 back 0.687 1.169 0.232 826.40 4132 UMTS 850 RMC 24.0 23.73 0.05 5 mm Closed 0.066M N/A 1:1 back 0.068 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0.066M N/A 1:1 back 0.066 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0.066M N/A 1:1 back 0.066 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0.066M N/A 1:1 back 0.066 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0.066M N/A 1:1 back 0.11 back 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0.066M N/A 1:1 back 0.111 back 0.111 1.064 0.139	1880.00	661	GSM 1900	GPRS	21.5	21.02	-0.02	5 mm	Closed	0710M	3	1:2.76	left	0.097	1.117	0.108	
826.40 4132 UMTS 850 RMC 24.0 23.73 0.01 10 mm Open 0080M N/A 1:1 bottom 0.120 1.064 0.242 1.064 0.242 1.064 0.128	826.40	4132	UMTS 850	RMC	24.0	23.73	-0.11	10 mm	Open	M0800	N/A	1:1	back	0.291	1.064	0.310	
826.40 4132 UMTS 850 RMC 24.0 23.73 0.01 10 mm Open 0080M N/A 1:1 right 0.227 1.064 0.242 82.640 4132 UMTS 850 RMC 24.0 23.73 -0.01 10 mm Open 0080M N/A 1:1 left 0.083 1.064 0.088 82.640 4132 UMTS 850 RMC 24.0 23.73 -0.13 5 mm Closed 0006M N/A 1:1 back 0.718 1.064 0.764 836.60 4183 UMTS 850 RMC 24.0 23.53 -0.03 5 mm Closed 0006M N/A 1:1 back 0.789 1.114 0.879 A17 82.640 4132 UMTS 850 RMC 24.0 23.32 -0.03 5 mm Closed 0006M N/A 1:1 back 0.687 1.169 0.803 82.640 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0006M N/A 1:1 back 0.687 1.169 0.803 82.640 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0006M N/A 1:1 front 0.166 1.064 0.177 82.640 4132 UMTS 850 RMC 24.0 23.73 0.05 5 mm Closed 0006M N/A 1:1 bottom 0.218 1.064 0.232 82.640 4132 UMTS 850 RMC 24.0 23.73 0.05 5 mm Closed 0006M N/A 1:1 right 0.096 1.064 0.102 82.640 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 82.640 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 82.640 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 82.640 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 82.640 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139	826.40	4132	UMTS 850	RMC	24.0	23.73	-0.02	10 mm	Open	M0800	N/A	1:1	front	0.175	1.064	0.186	
826.40 4132 UMTS 850 RMC 24.0 23.73 -0.01 10 mm Open 0080M N/A 1:1 left 0.083 1.064 0.088 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.13 5 mm Closed 0006M N/A 1:1 back 0.718 1.064 0.764 836.60 4183 UMTS 850 RMC 24.0 23.53 -0.03 5 mm Closed 0006M N/A 1:1 back 0.789 1.114 0.879 A17 846.60 4233 UMTS 850 RMC 24.0 23.32 -0.03 5 mm Closed 0006M N/A 1:1 back 0.687 1.169 0.803 866.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0006M N/A 1:1 back 0.687 1.169 0.803 866.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0006M N/A 1:1 front 0.166 1.064 0.177 866.40 4132 UMTS 850 RMC 24.0 23.73 0.05 5 mm Closed 0006M N/A 1:1 bottom 0.218 1.064 0.232 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 bottom 0.218 1.064 0.102 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.102 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.102 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.102 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 866.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 866.40	826.40	4132	UMTS 850	RMC	24.0	23.73	-0.02	10 mm	Open	M0800	N/A	1:1	bottom	0.120	1.064	0.128	
826.40 4132 UMTS 850 RMC 24.0 23.73 -0.13 5 mm Closed 0006M N/A 1:1 back 0.718 1.064 0.764 836.60 4183 UMTS 850 RMC 24.0 23.53 -0.03 5 mm Closed 0006M N/A 1:1 back 0.789 1.114 0.879 A17 846.60 4233 UMTS 850 RMC 24.0 23.32 -0.03 5 mm Closed 0006M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0006M N/A 1:1 front 0.166 1.064 0.177 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.05 5 mm Closed 0006M N/A 1:1 bottom 0.218 1.064 0.232 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 right 0.096 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.192 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.12 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.12 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139	826.40	4132	UMTS 850	RMC	24.0	23.73	0.01	10 mm	Open	M0800	N/A	1:1	right	0.227	1.064	0.242	
836.60 4183 UMTS 850 RMC 24.0 23.53 -0.03 5 mm Closed 0006M N/A 1:1 back 0.789 1.114 0.879 A17 846.60 4233 UMTS 850 RMC 24.0 23.32 -0.03 5 mm Closed 0006M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0006M N/A 1:1 front 0.166 1.064 0.177 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.05 5 mm Closed 0006M N/A 1:1 bottom 0.218 1.064 0.232 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 right 0.096 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.12 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak	826.40	4132	UMTS 850	RMC	24.0	23.73	-0.01	10 mm	Open	0080M	N/A	1:1	left	0.083	1.064	0.088	
846.60 4233 UMTS 850 RMC 24.0 23.32 -0.03 5 mm Closed 0006M N/A 1:1 back 0.687 1.169 0.803 826.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0006M N/A 1:1 front 0.166 1.064 0.177 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.05 5 mm Closed 0006M N/A 1:1 bottom 0.218 1.064 0.232 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 right 0.096 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.12 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 32	826.40	4132	UMTS 850	RMC	24.0	23.73	-0.13	5 mm	Closed	0006M	N/A	1:1	back	0.718	1.064	0.764	
826.40 4132 UMTS 850 RMC 24.0 23.73 0.03 5 mm Closed 0006M N/A 1:1 front 0.166 1.064 0.177 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 bottom 0.218 1.064 0.232 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 right 0.096 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 826.40 4132 UMTS 850 RMC 24.0 25.73 826.40 4	836.60	4183	UMTS 850	RMC	24.0	23.53	-0.03	5 mm	Closed	0006M	N/A	1:1	back	0.789	1.114	0.879	A17
826.40 4132 UMTS 850 RMC 24.0 23.73 -0.05 5 mm Closed 0006M N/A 1:1 bottom 0.218 1.064 0.232 826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 right 0.096 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.12 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak	846.60	4233	UMTS 850	RMC	24.0	23.32	-0.03	5 mm	Closed	0006M	N/A	1:1	back	0.687	1.169	0.803	
826.40 4132 UMTS 850 RMC 24.0 23.73 0.10 5 mm Closed 0006M N/A 1:1 right 0.096 1.064 0.102 826.40 4132 UMTS 850 RMC 24.0 23.73 -0.12 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak	826.40	4132	UMTS 850	RMC	24.0	23.73	0.03	5 mm	Closed	0006M	N/A	1:1	front	0.166	1.064	0.177	
826.40 4132 UMTS 850 RMC 24.0 23.73 -0.12 5 mm Closed 0006M N/A 1:1 left 0.131 1.064 0.139 ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Spatial Peak Closed 0006M N/A 1:1 left 0.131 1.064 0.139 Body 1.6 W/kg (mW/g)	826.40	4132	UMTS 850	RMC	24.0	23.73	-0.05	5 mm	Closed	0006M	N/A	1:1	bottom	0.218	1.064	0.232	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak 1.6 W/kg (mW/g)	826.40	4132	UMTS 850	RMC	24.0	23.73	0.10	5 mm	Closed	0006M	N/A	1:1	right	0.096	1.064	0.102	
Spatial Peak 1.6 W/kg (mW/g)	826.40	4132	UMTS 850	RMC	24.0	23.73	-0.12	5 mm	Closed	0006M	N/A	1:1	left	0.131	1.064	0.139	
• • •			ANSI / IEEE (AFETY LIMIT			1					-	()			
			Uncontrolled E	-	eral Populati	on											

Note: Blue entries represent variability measurements.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dog 70 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 76 of 137

Table 11-24 LTE Band 12 Hotspot SAR

									EASUREME		LTS									
FI	REQUENCY	′	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Configuration	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		-	Number							(W/kg)	Factor	(W/kg)	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	0.03	0	Open	0026M	QPSK	1	0	10 mm	back	1:1	0.173	1.178	0.204	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.04	1	Open	0026M	QPSK	25	0	10 mm	back	1:1	0.144	1.148	0.165	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.01	0	Open	0026M	QPSK	1	0	10 mm	front	1:1	0.166	1.178	0.196	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.01	1	Open	0026M	QPSK	25	0	10 mm	front	1:1	0.136	1.148	0.156	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	0.06	0	Open	0026M	QPSK	1	0	10 mm	bottom	1:1	0.037	1.178	0.044	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.11	1	Open	0026M	QPSK	25	0	10 mm	bottom	1:1	0.026	1.148	0.030	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	0.04	0	Open	0026M	QPSK	1	0	10 mm	right	1:1	0.159	1.178	0.187	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.11	1	Open	0026M	QPSK	25	0	10 mm	right	1:1	0.135	1.148	0.155	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.02	0	Open	0026M	QPSK	1	0	10 mm	left	1:1	0.163	1.178	0.192	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	-0.05	1	Open	0026M	QPSK	25	0	10 mm	left	1:1	0.132	1.148	0.152	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.11	0	Closed	0037M	QPSK	1	0	5 mm	back	1:1	0.346	1.178	0.408	A19
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	-0.10	1	Closed	0037M	QPSK	25	0	5 mm	back	1:1	0.319	1.148	0.366	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.08	0	Closed	0037M	QPSK	1	0	5 mm	front	1:1	0.067	1.178	0.079	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.15	1	Closed	0037M	QPSK	25	0	5 mm	front	1:1	0.048	1.148	0.055	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	-0.07	0	Closed	0037M	QPSK	1	0	5 mm	bottom	1:1	0.058	1.178	0.068	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	-0.03	1	Closed	0037M	QPSK	25	0	5 mm	bottom	1:1	0.043	1.148	0.049	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	0.20	0	Closed	0037M	QPSK	1	0	5 mm	right	1:1	0.080	1.178	0.094	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.09	1	Closed	0037M	QPSK	25	0	5 mm	right	1:1	0.063	1.148	0.072	
707.50	23095	Mid	LTE Band 12	10	24.0	23.29	0.09	0	Closed	0037M	QPSK	1	0	5 mm	left	1:1	0.087	1.178	0.102	
707.50	23095	Mid	LTE Band 12	10	23.0	22.40	0.00	1	Closed	0037M	QPSK	25	0	5 mm	left	1:1	0.070	1.148	0.080	
		Al	NSI / IEEE C95.1		ETY LIMIT							•		Body						
			•	ial Peak										W/kg (m	٠,					
	Uncontrolled Exposure/General Population							l					avera	ged over	1 gram					

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 77 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 77 of 137

Table 11-25 LTE Band 13 Hotspot SAR

									EASUREMEN											
FF	REQUENC	Y	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Configuration	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	()		Number						, -,	(W/kg)	Factor	(W/kg)	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.02	0	Open	0026M	QPSK	1	0	10 mm	back	1:1	0.238	1.208	0.288	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	-0.07	1	Open	0026M	QPSK	25	25	10 mm	back	1:1	0.214	1.156	0.247	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.06	0	Open	0026M	QPSK	1	0	10 mm	front	1:1	0.182	1.208	0.220	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	-0.04	1	Open	0026M	QPSK	25	25	10 mm	front	1:1	0.165	1.156	0.191	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	0.01	0	Open	0026M	QPSK	1	0	10 mm	bottom	1:1	0.099	1.208	0.120	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	-0.04	1	Open	0026M	QPSK	25	25	10 mm	bottom	1:1	0.090	1.156	0.104	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	0.11	0	Open	0026M	QPSK	1	0	10 mm	right	1:1	0.174	1.208	0.210	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	-0.01	1	Open	0026M	QPSK	25	25	10 mm	right	1:1	0.144	1.156	0.166	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	0.03	0	Open	0026M	QPSK	1	0	10 mm	left	1:1	0.048	1.208	0.058	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.10	1	Open	0026M	QPSK	25	25	10 mm	left	1:1	0.045	1.156	0.052	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.17	0	Closed	0026M	QPSK	1	0	5 mm	back	1:1	0.639	1.208	0.772	A21
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	-0.13	1	Closed	0026M	QPSK	25	25	5 mm	back	1:1	0.552	1.156	0.638	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	0.08	0	Closed	0026M	QPSK	1	0	5 mm	front	1:1	0.223	1.208	0.269	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.09	1	Closed	0026M	QPSK	25	25	5 mm	front	1:1	0.191	1.156	0.221	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	0.08	0	Closed	0026M	QPSK	1	0	5 mm	bottom	1:1	0.158	1.208	0.191	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.00	1	Closed	0026M	QPSK	25	25	5 mm	bottom	1:1	0.137	1.156	0.158	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	-0.02	0	Closed	0026M	QPSK	1	0	5 mm	right	1:1	0.077	1.208	0.093	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.07	1	Closed	0026M	QPSK	25	25	5 mm	right	1:1	0.067	1.156	0.077	
782.00	23230	Mid	LTE Band 13	10	24.0	23.18	0.14	0	Closed	0026M	QPSK	1	0	5 mm	left	1:1	0.133	1.208	0.161	
782.00	23230	Mid	LTE Band 13	10	23.0	22.37	0.07	1	Closed	0026M	QPSK	25	25	5 mm	left	1:1	0.122	1.156	0.141	
			NSI / IEEE C95.1 Spati ontrolled Exposi	al Peak										Body W/kg (m ged over	•				•	

FCC ID: A3LSMF711JPN	Proof to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 70 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 78 of 137

Table 11-26 LTE Band 5 (Cell) Hotspot SAR

									EASUREME	-		<u> </u>								
F	REQUENCY	′	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Configuration	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot #
MHz	С	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]			Number						.,,,	(W/kg)	Factor	(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	-0.05	0	Open	0080M	QPSK	1	0	10 mm	back	1:1	0.258	1.219	0.315	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	-0.03	0	Open	0080M	QPSK	25	25	10 mm	back	1:1	0.256	1.211	0.310	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	0.03	0	Open	0080M	QPSK	1	0	10 mm	front	1:1	0.180	1.219	0.219	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	0.02	0	Open	0080M	QPSK	25	25	10 mm	front	1:1	0.177	1.211	0.214	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	0.10	0	Open	0080M	QPSK	1	0	10 mm	bottom	1:1	0.046	1.219	0.056	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	0.02	0	Open	0080M	QPSK	25	25	10 mm	bottom	1:1	0.044	1.211	0.053	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	0.04	0	Open	0080M	QPSK	1	0	10 mm	right	1:1	0.185	1.219	0.226	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	0.02	0	Open	0080M	QPSK	25	25	10 mm	right	1:1	0.179	1.211	0.217	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	0.03	0	Open	0080M	QPSK	1	0	10 mm	left	1:1	0.141	1.219	0.172	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	0.02	0	Open	0080M	QPSK	25	25	10 mm	left	1:1	0.146	1.211	0.177	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	-0.04	0	Closed	0080M	QPSK	1	0	5 mm	back	1:1	0.693	1.219	0.845	A23
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	-0.02	0	Closed	0080M	QPSK	25	25	5 mm	back	1:1	0.679	1.211	0.822	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.10	-0.06	0	Closed	0080M	QPSK	50	0	5 mm	back	1:1	0.680	1.230	0.836	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	-0.04	0	Closed	0080M	QPSK	1	0	5 mm	front	1:1	0.119	1.219	0.145	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	-0.04	0	Closed	0080M	QPSK	25	25	5 mm	front	1:1	0.121	1.211	0.147	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	-0.02	0	Closed	0080M	QPSK	1	0	5 mm	bottom	1:1	0.118	1.219	0.144	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	0.01	0	Closed	0080M	QPSK	25	25	5 mm	bottom	1:1	0.110	1.211	0.133	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	0.05	0	Closed	0080M	QPSK	1	0	5 mm	right	1:1	0.076	1.219	0.093	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	0.06	0	Closed	0080M	QPSK	25	25	5 mm	right	1:1	0.076	1.211	0.092	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.14	0.10	0	Closed	0080M	QPSK	1	0	5 mm	left	1:1	0.182	1.219	0.222	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.17	-0.01	0	Closed	0080M	QPSK	25	25	5 mm	left	1:1	0.183	1.211	0.222	
			NSI / IEEE C95.1 Spati	al Peak										Body W/kg (maged over						

FCC ID: A3LSMF711JPN	Proof to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 70 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 79 of 137

Table 11-27 LTE Band 4 (AWS) Hotspot SAR

						_			EASUREME											
F	REQUENCY	r	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Configuration	Device Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling	Reported SAR (1g)	Plot#
MHz	С	h.	illoud	[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	mii ii (ub)	Conniguration	Number	modulation	ND OIL	NB 011501	opaomg	oluc	Daily Oyule	(W/kg)	Factor	(W/kg)	1101#
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	-0.01	0	Open	0006M	QPSK	1	0	10 mm	back	1:1	0.394	1.117	0.440	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	0.01	0	Open	0006M	QPSK	50	50	10 mm	back	1:1	0.418	1.091	0.456	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	0.12	0	Open	0006M	QPSK	1	0	10 mm	front	1:1	0.309	1.117	0.345	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	0.01	0	Open	0006M	QPSK	50	50	10 mm	front	1:1	0.329	1.091	0.359	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	-0.04	0	Open	0006M	QPSK	1	0	10 mm	bottom	1:1	0.552	1.117	0.617	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	-0.02	0	Open	0006M	QPSK	50	50	10 mm	bottom	1:1	0.585	1.091	0.638	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	-0.18	0	Open	0006M	QPSK	1	0	10 mm	right	1:1	0.029	1.117	0.032	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	0.05	0	Open	0006M	QPSK	50	50	10 mm	right	1:1	0.031	1.091	0.034	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	0.05	0	Open	0006M	QPSK	1	0	10 mm	left	1:1	0.053	1.117	0.059	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	0.09	0	Open	0006M	QPSK	50	50	10 mm	left	1:1	0.053	1.091	0.058	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	-0.01	0	Closed	0006M	QPSK	1	0	5 mm	back	1:1	0.597	1.117	0.667	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	-0.07	0	Closed	0006M	QPSK	50	50	5 mm	back	1:1	0.617	1.091	0.673	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	-0.06	0	Closed	0006M	QPSK	1	0	5 mm	front	1:1	0.100	1.117	0.112	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	0.00	0	Closed	0006M	QPSK	50	50	5 mm	front	1:1	0.106	1.091	0.116	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	-0.11	0	Closed	0006M	QPSK	1	0	5 mm	bottom	1:1	0.800	1.117	0.894	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	-0.13	0	Closed	0006M	QPSK	50	50	5 mm	bottom	1:1	0.840	1.091	0.916	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.51	-0.20	0	Closed	0006M	QPSK	100	0	5 mm	bottom	1:1	0.852	1.119	0.953	A25
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	0.14	0	Closed	0006M	QPSK	1	0	5 mm	right	1:1	0.022	1.117	0.025	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	0.12	0	Closed	0006M	QPSK	50	50	5 mm	right	1:1	0.023	1.091	0.025	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.52	-0.02	0	Closed	0006M	QPSK	1	0	5 mm	left	1:1	0.140	1.117	0.156	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.62	-0.08	0	Closed	0006M	QPSK	50	50	5 mm	left	1:1	0.160	1.091	0.175	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	19.0	18.51	-0.01	0	Closed	0006M	QPSK	100	0	5 mm	bottom	1:1	0.847	1.119	0.948	
		Α	NSI / IEEE C95.1		ETY LIMIT									Body						
			•	al Peak										W/kg (m						
		Uno	controlled Exposu	ire/Genera	Population								avera	ged over	ı gram					

Note: Blue entries represent variability measurements.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 80 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 80 01 137

Table 11-28 LTE Band 41 Hotspot SAR

											ESULTS		`									
1 CC Uplink 2 CC Uplink, Power Class	Component Carrier	FI	REQUENC	Y Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Configuration	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.42	0.00	0	Open	0080M	QPSK	1	50	10 mm	back	1:1.58	0.128	1.019	0.130	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.46	-0.01	0	Open	0080M	QPSK	50	50	10 mm	back	1:1.58	0.128	1.009	0.129	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.42	-0.03	0	Open	0080M	QPSK	1	50	10 mm	front	1:1.58	0.085	1.019	0.087	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.46	-0.07	0	Open	0080M	QPSK	50	50	10 mm	front	1:1.58	0.084	1.009	0.085	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.42	0.00	0	Open	0080M	QPSK	1	50	10 mm	bottom	1:1.58	0.271	1.019	0.276	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.46	-0.04	0	Open	0080M	QPSK	50	50	10 mm	bottom	1:1.58	0.273	1.009	0.275	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.42	-0.14	0	Open	0080M	QPSK	1	50	10 mm	left	1:1.58	0.074	1.019	0.075	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.46	-0.07	0	Open	0080M	QPSK	50	50	10 mm	left	1:1.58	0.081	1.009	0.082	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.42	0.00	0	Closed	0080M	QPSK	1	50	5 mm	back	1:1.58	0.328	1.019	0.334	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.46	0.02	0	Closed	0080M	QPSK	50	50	5 mm	back	1:1.58	0.330	1.009	0.333	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.42	0.14	0	Closed	0080M	QPSK	1	50	5 mm	front	1:1.58	0.043	1.019	0.044	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.46	-0.02	0	Closed	0080M	QPSK	50	50	5 mm	front	1:1.58	0.047	1.009	0.047	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	19.5	18.35	0.00	0	Closed	0080M	QPSK	1	99	5 mm	bottom	1:1.58	0.587	1.303	0.765	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	19.5	18.89	0.01	0	Closed	0080M	QPSK	1	50	5 mm	bottom	1:1.58	0.611	1.151	0.703	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	19.5	18.38	0.05	0	Closed	0080M	QPSK	1	0	5 mm	bottom	1:1.58	0.639	1.294	0.827	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	19.5	18.68	0.04	0	Closed	0080M	QPSK	1	50	5 mm	bottom	1:1.58	0.681	1.208	0.823	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	19.5	19.14	0.02	0	Closed	0080M	QPSK	1	50	5 mm	bottom	1:1.58	0.744	1.086	0.808	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.42	0.19	0	Closed	0080M	QPSK	1	50	5 mm	bottom	1:1.58	0.661	1.019	0.674	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	19.5	18.37	0.05	0	Closed	0080M	QPSK	50	25	5 mm	bottom	1:1.58	0.584	1.297	0.757	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	19.5	18.96	0.04	0	Closed	0080M	QPSK	50	25	5 mm	bottom	1:1.58	0.622	1.132	0.704	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	19.5	18.80	0.13	0	Closed	0080M	QPSK	50	50	5 mm	bottom	1:1.58	0.692	1.175	0.813	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	19.5	19.23	0.08	0	Closed	0080M	QPSK	50	25	5 mm	bottom	1:1.58	0.751	1.064	0.799	A27
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.46	-0.05	0	Closed	0080M	QPSK	50	50	5 mm	bottom	1:1.58	0.652	1.009	0.658	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.34	0.10	0	Closed	0080M	QPSK	100	0	5 mm	bottom	1:1.58	0.644	1.038	0.668	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	LTE Band 41	20	19.5	18.65	0.02	0	Closed	0080M	QPSK	1	0	5 mm	Bottom	1:1.58	0.693	1.216	0.843	
Opmin	scc	2573.20	40422		_1		10.0		0.02	Ů	0.000	OGGGINI	ui oit		99	J	20110111	1.1.00	0.000		0.040	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.42	0.02	0	Closed	0080M	QPSK	1	50	5 mm	left	1:1.58	0.203	1.019	0.207	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.5	19.46	0.00	0	Closed	0080M	QPSK	50	50	5 mm	left	1:1.58	0.213	1.009	0.215	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body W/kg (n ged over						

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 94 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 81 of 137

Table 11-29 DTS SISO Hotspot SAR

										MENT RESU										
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Configuration	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	•	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2437	6	802.11b	DSSS	22	18.5	18.40	-0.21	10 mm	2	Open	0710M	1	back	99.9	0.133		1.023	1.001	-	
2437	6	802.11b	DSSS	22	18.5	18.40	0.01	10 mm	2	Open	0710M	1	front	99.9	0.203	0.148	1.023	1.001	0.152	
2437	6 802.11b DSSS 22 18.5 18.40							10 mm	2	Open	0710M	1	top	99.9	0.093		1.023	1.001	-	
2437	6 802.11b DSSS 22 18.5 18.40							10 mm	2	Open	0710M	1	left	99.9	0.180		1.023	1.001	-	
2437	6	802.11b	DSSS	22	18.5	18.40	-0.04	5 mm	2	Closed	0710M	1	back	99.9	0.049	0.040	1.023	1.001	0.041	
2437	6	802.11b	DSSS	22	18.5	18.40	-0.13	5 mm	2	Closed	0710M	1	front	99.9	0.294		1.023	1.001	-	
2437	6	802.11b	DSSS	22	18.5	18.40	0.00	5 mm	2	Closed	0710M	1	bottom	99.9	0.231	0.163	1.023	1.001	0.167	
2437	6 802.11b DSSS 22 18.5 18.40 -							5 mm	2	Closed	0710M	1	left	99.9	0.366	0.329	1.023	1.001	0.337	
		ANSI / I	EEE C95.1 19 Spatial									ody g (mW/g)								
		Uncontro	lled Exposure	/General P	opulation									averaged o	over 1 gram					

Table 11-30 DTS MIMO Hotspot SAR

									MEA		ENT RES											
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Configuration	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift [dB]		Config.		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
2412	1	802.11b	DSSS	22	18.5	18.49	18.5	18.23	-0.02	10 mm	MIMO	Open	0710M	1	back	99.9	0.374	0.315	1.064	1.001	0.335	
2412	1	802.11b	DSSS	22	18.5	18.49	18.5	18.23	0.04	10 mm	MIMO	Open	0710M	1	front	99.9	0.367	-	1.064	1.001	-	
2412	1	802.11b	DSSS	22	18.5	18.49	18.5	18.23	-0.06	10 mm	MIMO	Open	0710M	1	top	99.9	0.213	-	1.064	1.001	-	
2412										10 mm	MIMO	Open	0710M	1	right	99.9	0.075	-	1.064	1.001	-	
2412 1 802.11b DSSS 22 18.5 18.49 18.5									0.01	10 mm	MIMO	Open	0710M	1	left	99.9	0.325	-	1.064	1.001	-	
2412	1	802.11b	DSSS	22	18.5	18.49	18.5	18.23	-0.06	5 mm	MIMO	Closed	0710M	1	back	99.9	0.214	0.176	1.064	1.001	0.187	
2412	1	802.11b	DSSS	22	18.5	18.49	18.5	18.23	0.01	5 mm	MIMO	Closed	0710M	1	front	99.9	0.558	0.493	1.064	1.001	0.525	A29
2412	1	802.11b	DSSS	22	18.5	18.49	18.5	18.23	0.00	5 mm	MIMO	Closed	0710M	1	bottom	99.9	0.446	0.355	1.064	1.001	0.378	
2412	2 1 802.11b DSSS 22 18.5 18.49 18.5 18.23									5 mm	MIMO	Closed	0710M	1	right	99.9	0.177	-	1.064	1.001	-	
2412	1 802.11b DSSS 22 18.5 18.49 18.5 18.23									5 mm	MIMO	Closed	0710M	1	left	99.9	0.450	0.359	1.064	1.001	0.382	
	1 802.11b DSSS 22 18.5 18.49 18.5 18.23 0.															1.6 W/k	ody kg (mW/g) over 1 gram					

Note: To achieve the 21.5 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.5 dBm.

Table 11-31 NII SISO Hotspot SAR

								MII 3	5150	потѕро	t SA	K								
								N	//EASURE	MENT RESU	LTS									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Configuration	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Config.		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5745	149	802.11a	OFDM	20	18.0	17.87	-0.07	10 mm	1	Open	0880M	6	back	98.9	0.202		1.030	1.011	-	
5745	149	802.11a	OFDM	20	18.0	17.87	0.12	10 mm	1	Open	0880M	6	front	98.9	0.155		1.030	1.011	-	
5745	149	802.11a	OFDM	20	18.0	0.15	10 mm	1	Open	0880M	6	top	98.9	0.374	0.256	1.030	1.011	0.267		
5745	149	802.11a	OFDM	20	18.0	0.13	10 mm	1	Open	0880M	6	right	98.9	0.105	-	1.030	1.011	-		
5745	149	802.11a	OFDM	20	18.0	17.87	-0.05	5 mm	1	Closed	0880M	6	back	98.9	0.096	0.065	1.030	1.011	0.068	
5745	149	802.11a	OFDM	20	18.0	17.87	0.02	5 mm	1	Closed	0880M	6	front	98.9	0.405		1.030	1.011	-	
5745	149	802.11a	OFDM	-0.03	5 mm	1	Closed	0880M	6	bottom	98.9	0.506	0.349	1.030	1.011	0.363				
5745	149	802.11a	OFDM	0.05	5 mm	1	Closed	0880M	6	right	98.9	0.174		1.030	1.011	-				
		ANSI / I	EEE C95.1 19	92 - SAFET								Вс	ody							
			Spatial	Peak										1.6 W/kg	g (mW/g)					
		Uncontro	lled Exposure	e/General F	opulation									averaged o	over 1 gram					

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 92 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 82 of 137

Table 11-32
NII SISO Hotspot SAR for Conditions with 2.4 GHz WLAN SAR – Closed

							ı	MEASU	REMENT	RESUL	TS.								
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5775	155	802.11ac	-0.18	5 mm	1	0710M	29.3	back	99.7	0.000	-	1.074	1.003	-					
5775	155	802.11ac	-0.12	5 mm	1	0710M	29.3	front	99.7	0.154	-	1.074	1.003	-					
5775	155	802.11ac	OFDM	80	15.0	14.69	-0.19	5 mm	1	0710M	29.3	bottom	99.7	0.189	0.099	1.074	1.003	0.107	
5775	5 155 802.11ac OFDM 80 15.0 14.69								1	0710M	29.3	right	99.7	0.015	-	1.074	1.003	-	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT													Body					
			Spatial	Peak										1.6 W/kg (m\	N/g)				
		Uncontro	lled Exposure	e/General P	opulation								a١	eraged over '	l gram				

Note: 5 GHZ WLAN SISO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 5 GHz WLAN and 2.4 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

Table 11-33 NII MIMO Hotspot SAR

									MEA	SUREM	ENT RES	BULTS										
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed	Conducted Power (Ant 2)	Power	Spacing	Antenna	Configuration	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	Power (Ant 2) [dBm]	[dBm]	Drift (dB)		Config.		Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5745	149	802.11n	OFDM	20	18.0	17.89	18.0	17.76	0.07	10 mm	MIMO	Open	0880M	13	back	99.7	0.145	-	1.057	1.003	-	
5745	149	802.11n	OFDM	20	18.0	17.89	18.0	17.76	0.13	10 mm	MIMO	Open	0880M	13	front	99.7	0.147	-	1.057	1.003	-	
5745										10 mm	MIMO	Open	0880M	13	top	99.7	0.225	0.176	1.057	1.003	0.187	
5745									0.10	10 mm	MIMO	Open	0880M	13	right	99.7	0.078	-	1.057	1.003	-	
5745									0.11	10 mm	MIMO	Open	0880M	13	left	99.7	0.133		1.057	1.003	-	
5745	149	802.11n	OFDM	20	18.0	17.89	18.0	17.76	0.01	5 mm	MIMO	Closed	0880M	13	back	99.7	0.134	-	1.057	1.003	-	
5745	149	802.11n	OFDM	20	18.0	17.89	18.0	17.76	0.09	5 mm	MIMO	Closed	0880M	13	front	99.7	0.530	0.356	1.057	1.003	0.377	
5745	149	802.11n	OFDM	20	18.0	17.89	18.0	17.76	-0.09	5 mm	MIMO	Closed	0880M	13	bottom	99.7	0.728	0.463	1.057	1.003	0.491	A31
5745	149 802:11n OFDM 20 18.0 17.89 18.0 17.76								-0.18	5 mm	MIMO	Closed	0880M	13	right	99.7	0.121	-	1.057	1.003	-	
5745	149 802.11n OFDM 20 18.0 17.89 18.0 17.76									5 mm	MIMO	Closed	0880M	13	left	99.7	0.440		1.057	1.003	-	
	149 802.11n OFDM 20 18.0 17.89 18.0 17.76 -0															1.6 W/	ody kg (mW/g) over 1 gram					

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.0 dBm.

Table 11-34
NII MIMO Hotspot SAR for Conditions with 2.4 GHz WLAN SAR - Closed

			1411	ALLIAIC) HOLS	pot 3	AIN IC		iuitii	פווכ	WILLI	Z.4	G1 12	_ ~ .		SAIL .	- Clus	eu			
								ME	ASURE	MENT F	RESULTS	;									
FREQU	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (1g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			[MHz]	Power (Ant 1) [dBm]	[dBm]	[dBm]	[dBm]	Drift (dB)		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5775	155	802.11ac	OFDM	80	15.0	14.53	15.0	14.79	-0.13	5 mm	MIMO	0880M	58.5	back	99.7	0.020		1.114	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.53	15.0	14.79	0.01	5 mm	MIMO	0880M	58.5	front	99.7	0.115		1.114	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.53	15.0	14.79	-0.14	5 mm	MIMO	0880M	58.5	bottom	99.7	0.142	0.044	1.114	1.003	0.049	
5775	155	802.11ac	OFDM	80	15.0	14.53	15.0	14.79	-0.15	5 mm	MIMO	0880M	58.5	right	99.7	0.007		1.114	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.53	15.0	14.79	-0.18	5 mm	MIMO	0880M	58.5	left	99.7	0.074	-	1.114	1.003	-	
			ANSI / IE								Body										
				Spatia	al Peak											1.6 W/kg (m)	W/g)				
			Unacutral	lad Evnagu	valCanaval D	anulation.				ı					-	meanad alone	1 00000				

Note: 5 GHZ WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 5 GHz WLAN and 2.4 GHz WLAN. 2.4 GHz WIFI was not transmitting during the above evaluations.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 92 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 83 of 137

Table 11-35 DSS Hotspot SAR - Open

								spot or	***	Opci	•						
						l	MEASU	REMENT F	RESULT	s							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	16.0	15.43	-0.09	10 mm	1	0710M	1	back	76.80	0.077	1.140	1.302	0.114	
2441	39	Bluetooth	FHSS	16.0	15.43	-0.14	10 mm	1	0710M	1	front	76.80	0.052	1.140	1.302	0.077	
2441	39	Bluetooth	-0.11	10 mm	1	0710M	1	top	76.80	0.029	1.140	1.302	0.043				
2441	39	Bluetooth	0.03	10 mm	1	0710M	1	right	76.80	0.022	1.140	1.302	0.033				
2441	39	Bluetooth	FHSS	17.0	16.61	-0.16	10 mm	2	0710M	1	back	76.80	0.068	1.094	1.302	0.097	
2441	39	Bluetooth	FHSS	17.0	16.61	-0.07	10 mm	2	0710M	1	front	76.80	0.081	1.094	1.302	0.115	
2441	39	Bluetooth	FHSS	17.0	16.61	0.07	10 mm	2	0710M	1	top	76.80	0.045	1.094	1.302	0.064	
2441	39	Bluetooth	FHSS	-0.14	10 mm	2	0710M	1	left	76.80	0.079	1.094	1.302	0.113			
		ANSI / IEEE C	C95.1 1992 - S	AFETY LIMIT								В	ody				
			Spatial Peak									1.6 W/k	g (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	on							averaged	over 1 gram				

Table 11-36 DSS Hotspot SAR - Closed

								REMENT		TS							
FREQU	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	(W/kg)	Power)	Cycle)	(W/kg)	
2441	39	Bluetooth	FHSS	16.0	15.43	-0.08	5 mm	1	0710M	1	back	76.80	0.036	1.140	1.302	0.053	
2441	39	Bluetooth	FHSS	16.0	15.43	0.05	5 mm	1	0710M	1	front	76.80	0.147	1.140	1.302	0.218	
2441	39	Bluetooth	FHSS	16.0	-0.13	5 mm	1	0710M	1	bottom	76.80	0.073	1.140	1.302	0.108		
2441	39	Bluetooth	FHSS	16.0	0.04	5 mm	1	0710M	1	right	76.80	0.041	1.140	1.302	0.061		
2441	39	Bluetooth	FHSS	17.0	16.61	0.01	5 mm	2	0710M	1	back	76.80	0.020	1.094	1.302	0.028	
2441	39	Bluetooth	FHSS	17.0	16.61	-0.01	5 mm	2	0710M	1	front	76.80	0.151	1.094	1.302	0.215	
2441	39	Bluetooth	FHSS	17.0	16.61	0.00	5 mm	2	0710M	1	bottom	76.80	0.101	1.094	1.302	0.144	
2441	39	Bluetooth	FHSS	17.0	16.61	-0.09	5 mm	2	0710M	1	left	76.80	0.227	1.094	1.302	0.323	A33
		ANSI / IEEE C							•	•			Body	•	•		
			Spatial Peak										kg (mW/g)				
		Uncontrolled E	xposure/Gen	eral Populati	on							averaged	d over 1 gram	1			

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 94 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 84 of 137

11.4 Standalone Phablet SAR Data

Table 11-37 GPRS1900 Phablet SAR Data - Open

					ME	ASURE				эрсп					
FREQUE	ENCY	Mode	Service	Maximum Allowed	Conducted	Power	Spacing	Device Serial	# of Time	Duty Cycle	Side	SAR (10g)	Scaling	Reported SAR (10g)	Plot#
MHz	Ch.			Power [dBm]	Power [dBm]	Drift [dB]		Number	Slots	, -,		(W/kg)	Factor	(W/kg)	
1850.20	512	GSM 1900	GPRS	26.5	26.36	0.11	8 mm	0006M	3	1:2.76	back	0.730	1.033	0.754	
1850.20	512	GSM 1900	GPRS	26.5	26.36	0.05	6 mm	0006M	3	1:2.76	front	0.823	1.033	0.850	
1850.20	512	GSM 1900	GPRS	26.5	26.36	0.05	11 mm	0006M	3	1:2.76	bottom	0.684	1.033	0.707	
1850.20	512	GSM 1900	GPRS	26.5	26.36	-0.05	0 mm	0006M	3	1:2.76	right	0.244	1.033	0.252	
1850.20	512	GSM 1900	GPRS	26.5	26.36	0.04	0 mm	0006M	3	1:2.76	left	0.224	1.033	0.231	
1850.20	512	GSM 1900	GPRS	23.5	22.88	0.06	0 mm	0006M	3	1:2.76	back	1.900	1.153	2.191	
1880.00	661	GSM 1900	GPRS	23.5	22.72	0.10	0 mm	0006M	3	1:2.76	back	1.960	1.197	2.346	
1909.80	810	GSM 1900	GPRS	23.5	22.73	0.04	0 mm	0006M	3	1:2.76	back	2.000	1.194	2.388	A34
1850.20	512	GSM 1900	GPRS	23.5	22.88	0.06	0 mm	0006M	3	1:2.76	front	1.330	1.153	1.533	
1850.20	512	GSM 1900	GPRS	23.5	22.88	-0.02	0 mm	0006M	3	1:2.76	bottom	1.280	1.153	1.476	
1909.80	810	GSM 1900	GPRS	23.5	22.73	-0.01	0 mm	0006M	3	1:2.76	back	1.970	1.194	2.352	
		ANSI / IEEE C		AFETY LIMIT	<u> </u>							ablet			
			Spatial Peak									kg (mW/g)			
		Uncontrolled E	xposure/Gen	erai Populati	on					a	veraged o	over 10 grams	<u> </u>		

Note: Blue entries represent variability measurements.

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 05 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 85 of 137

Table 11-38 LTE Band 4 (AWS) Phablet SAR - Open

	MEASUREMENT RESULTS																		
FF	REQUENC	Y	Mode	Bandwidth	Maximum Allowed	Conducted	Power	MPR [dB]	Serial	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling	Reported SAR (10g)	Plot#
MHz	c	h.		[MHz]	Power [dBm]	Power [dBm]	Drift [dB]		Number							(W/kg)	Factor	(W/kg)	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	0.04	0	0006M	QPSK	1	50	8 mm	back	1:1	0.897	1.225	1.099	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	-0.01	1	0006M	QPSK	50	25	8 mm	back	1:1	0.729	1.178	0.859	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	0.14	0	0006M	QPSK	1	50	6 mm	front	1:1	0.886	1.225	1.085	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	-0.04	1	0006M	QPSK	50	25	6 mm	front	1:1	0.776	1.178	0.914	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	0.00	0	0006M	QPSK	1	50	11 mm	bottom	1:1	0.721	1.225	0.883	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	-0.02	1	0006M	QPSK	50	25	11 mm	bottom	1:1	0.606	1.178	0.714	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	-0.05	0	0006M	QPSK	1	50	0 mm	right	1:1	0.230	1.225	0.282	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	0.00	1	0006M	QPSK	50	25	0 mm	right	1:1	0.186	1.178	0.219	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	24.0	23.12	-0.11	0	0006M	QPSK	1	50	0 mm	left	1:1	0.294	1.225	0.360	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	23.0	22.29	-0.06	1	0006M	QPSK	50	25	0 mm	left	1:1	0.241	1.178	0.284	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	21.0	19.99	0.03	0	0006M	QPSK	1	50	0 mm	back	1:1	2.170	1.262	2.739	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	21.0	20.10	0.10	0	0006M	QPSK	50	25	0 mm	back	1:1	2.350	1.230	2.891	A35
1732.50	20175	Mid	LTE Band 4 (AWS)	20	21.0	19.97	0.06	0	0006M	QPSK	100	0	0 mm	back	1:1	2.250	1.268	2.853	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	21.0	19.99	-0.03	0	0006M	QPSK	1	50	0 mm	front	1:1	1.460	1.262	1.843	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	21.0	20.10	0.01	0	0006M	QPSK	50	25	0 mm	front	1:1	1.550	1.230	1.907	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	21.0	19.99	0.01	0	0006M	QPSK	1	50	0 mm	bottom	1:1	1.600	1.262	2.019	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	21.0	20.10	-0.05	0	0006M	QPSK	50	25	0 mm	bottom	1:1	1.690	1.230	2.079	
1745.00	20300	High	LTE Band 4 (AWS)	20	21.0	19.97	-0.05	0	0006M	QPSK	100	0	0 mm	bottom	1:1	1.680	1.268	2.130	
1732.50	20175	Mid	LTE Band 4 (AWS)	20	21.0	20.10	0.16	0	0006M	QPSK	50	25	0 mm	back	1:1	2.340	1.230	2.878	
		Α	NSI / IEEE C95.1		ETY LIMIT								Pha						
	Spatial Peak												1.0 W/kg						
	Uncontrolled Exposure/General Population											ave	raged ov	er 10 gra	ms				

Note: Blue entries represent variability measurements.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 06 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 86 of 137

Table 11-39 LTE Band 41 Phablet SAR - Open

	LTE Ballu 41 Filablet SAN - Open																				
								MEASUR	EMENT	RESULT	s										
1 CC Uplink 2 CC Uplink, Power Class	Component Carrier	F	REQUENC	Y	Mode	Bandwidth [MHz]	Maximum Allowed	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
Fower Class	Carrier	MHz	(Ch.		[MI12]	Power [dBm]	rower (ubili)	Dilit [db]		Number							(W/kg)	racioi	(W/kg)	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	0.02	0	M0800	QPSK	1	50	8 mm	back	1:1.58	0.340	1.033	0.351	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	0.01	1	M0800	QPSK	50	50	8 mm	back	1:1.58	0.267	1.014	0.271	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	-0.03	0	0080M	QPSK	1	50	6 mm	front	1:1.58	0.291	1.033	0.301	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	-0.03	1	0080M	QPSK	50	50	6 mm	front	1:1.58	0.231	1.014	0.234	
1 CC Uplink - Power Class 3	CC Uplink - Power Class 3 N/A 2680.00 41490 High LTE Band 41 20 25.0 24.86 0												1	50	11 mm	bottom	1:1.58	0.404	1.033	0.417	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	-0.01	1	0080M	QPSK	50	50	11 mm	bottom	1:1.58	0.323	1.014	0.328	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.0	24.86	0.06	0	0080M	QPSK	1	50	0 mm	left	1:1.58	0.869	1.033	0.898	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.94	-0.01	1	0080M	QPSK	50	50	0 mm	left	1:1.58	0.719	1.014	0.729	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.43	-0.01	0	0080M	QPSK	1	0	0 mm	back	1:1.58	0.980	1.140	1.117	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.58	0.02	0	0080M	QPSK	50	25	0 mm	back	1:1.58	1.010	1.102	1.113	A36
2 CC Uplink - Power Class 3	PCC	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.59	-0.10	0	0080M	QPSK		0	0 mm	back	1:1.58	0.966	1.099	1.062	
2 CC Oplilik - Power Class 3	scc	2529.70	39987	LOW-IVIG	LTE Ballu 41	20	22.0	21.59	-0.10	U	UUBUW	QF3K		99	Ollilli	Dack	1.1.30	0.900	1.099	1.002	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.43	-0.10	0	0080M	QPSK	1	0	0 mm	front	1:1.58	0.415	1.140	0.473	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.58	0.04	0	0080M	QPSK	50	25	0 mm	front	1:1.58	0.428	1.102	0.472	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.43	0.01	0	0080M	QPSK	1	0	0 mm	bottom	1:1.58	0.800	1.140	0.912	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	22.0	21.58	0.00	0	0080M	QPSK	50	25	0 mm	bottom	1:1.58	0.827	1.102	0.911	
		ANS	/ IEEE		92 - SAFETY LIMI	т										Phablet					
				Spatial F												V/kg (mV	•				
	Uncontrolled Exposure/General Population														average	d over 10	grams				

Table 11-40 WLAN SISO Phablet SAR - Open

	WEAN 3130 Fliablet 3AK - Open																		
								MEASU	REMENT	RESU	TS								
FREQUE	ENCY	Mode	Service	Bandwidth	Maximum Allowed	Conducted	Power Drift [dB]	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (10g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (10g)	Plot #
MHz	Ch.			[MHz]	Power [dBm]	Power [dBm]	Drift [dB]	.,	Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5300	60	802.11a	OFDM	20	18.0	17.66	-0.02	0 mm	1	0880M	6	back	98.9	2.220	-	1.081	1.011	-	
5300	5300 60 802.11a OFDM 20 18.0 17.66								1	0880M	6	front	98.9	3.650	-	1.081	1.011	-	
5300	60	802.11a	OFDM	20	18.0	17.66	0.01	0 mm	1	0880M	6	top	98.9	5.390	0.592	1.081	1.011	0.647	
5300	60	802.11a	OFDM	20	18.0	17.66	0.21	0 mm	1	0880M	6	right	98.9	0.438	-	1.081	1.011	-	
5600	120	802.11a	OFDM	20	18.0	17.92	0.00	0 mm	1	0880M	6	back	98.9	2.470	-	1.019	1.011	-	
5600	120	802.11a	OFDM	20	18.0	17.92	-0.02	0 mm	1	0880M	6	front	98.9	2.950	0.570	1.019	1.011	0.587	
5600	120	802.11a	OFDM	20	18.0	17.92	0.10	0 mm	1	0880M	6	top	98.9	2.720	-	1.019	1.011	-	
5600	6600 120 802.11a OFDM 20 18.0 17.92 0.							0 mm	1	0880M	6	right	98.9	0.987		1.019	1.011	-	
		ANSI / II	EEE C95.1 19 Spatial		YLIMIT				•				•	Phablet 4.0 W/kg (m)	N/g)		•		
	Uncontrolled Exposure/General Population							averaged over 10 grams											

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 07 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 87 of 137

Table 11-41 WLAN MIMO Phablet SAR - Open

								•					<u> </u>								
								ME	ASURE	MENT F	RESULTS	3									
FREQU	ENCY	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1)	Conducted Power (Ant 1)	Maximum Allowed Power (Ant 2)	Conducted Power (Ant 2)	Power	Spacing	Antenna	Device Serial	Data Rate	Side	Duty Cycle	Peak SAR of Area Scan	SAR (10g)	Scaling Factor	Scaling Factor (Duty	Reported SAR (10g)	Plot#
MHz	Ch.			[MHZ]	[dBm]	[dBm]	[dBm]	[dBm]	Drift [dB]		Config.	Number	(Mbps)		(%)	W/kg	(W/kg)	(Power)	Cycle)	(W/kg)	
5260	52	802.11n	OFDM	20	18.0	17.33	18.0	17.90	0.03	0 mm	MIMO	0880M	13	back	99.7	1.960	-	1.167	1.003	-	
5260	52	802.11n	OFDM	20	18.0	17.33	18.0	17.90	0.00	0 mm	MIMO	0880M	13	front	99.7	4.680	0.907	1.167	1.003	1.062	A37
5260	52	802.11n	0.03	0 mm	MIMO	0880M	13	top	99.7	2.910	-	1.167	1.003	-							
5260	5260 52 802.11n OFDM 20 18.0 17.33 18.0 17.90									0 mm	MIMO	0880M	13	right	99.7	0.290		1.167	1.003	-	
5260	52	802.11n	OFDM	20	18.0	17.33	18.0	17.90	0.04	0 mm	MIMO	0880M	13	left	99.7	4.530	0.888	1.167	1.003	1.039	
5600	120	802.11n	OFDM	20	18.0	17.82	18.0	17.87	0.00	0 mm	MIMO	0880M	13	back	99.7	2.570	-	1.042	1.003	-	
5600	120	802.11n	OFDM	20	18.0	17.82	18.0	17.87	-0.04	0 mm	MIMO	0880M	13	front	99.7	2.870	0.589	1.042	1.003	0.616	
5600	120	802.11n	OFDM	20	18.0	17.82	18.0	17.87	0.10	0 mm	MIMO	0880M	13	top	99.7	2.553		1.042	1.003	-	
5600	120	802.11n	OFDM	20	18.0	17.82	18.0	17.87	0.03	0 mm	MIMO	0880M	13	right	99.7	0.737	-	1.042	1.003	-	
5600	500 120 802.11n OFDM 20 18.0 17.82 18.0 17.87 -0									0 mm	MIMO	0880M	13	left	99.7	2.270	-	1.042	1.003	-	
			ANSI / IE	EE C95.1 1	1992 - SAFET	YLIMIT				Phablet											
				Spatia	al Peak											4.0 W/kg (m	W/g)				
	Uncontrolled Exposure/General Population													av	eraged over 1	0 grams					

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 18.0 dBm.

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 00 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 88 of 137

11.5 SAR Test Notes

General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in IEC/IEEE 62209-1528, and FCC KDB Publication 447498 D01v06.
- 2. Batteries are fully charged at the beginning of the SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 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 D04v01r03, 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 13.1 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 6.7 for more details).
- 10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is > 160 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
- 11. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
- 12. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
- 13. This device has an open and closed configuration. When closed, 1g SAR test are required for back side at a test separation distance of 15mm for body-worn, and on all surfaces and edges with an antenna <=25 mm from that surface or edge at a test separation distance 5mm for hotspot.

GSM Test Notes:

- 1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice 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 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

FCC ID: A3LSMF711JPN	Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 89 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 69 01 137

UMTS Notes:

- 1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01, AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- 2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations 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 8.5.4.
- 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 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
- 4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
- 5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
- 6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
- 7. For LTE Band 41 SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest reported SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

FCC ID: A3LSMF711JPN	Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 90 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 90 01 137

WLAN Notes:

- 1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was 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.
- 2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI 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 8.6.5 for more information.
- 3. 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 8.6.5 for more information.
- 4. 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.
- 5. 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.
- 6. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 12 for complete analysis.
- 7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Bluetooth Notes

- 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 100% transmission duty factor to determine compliance. See Section 9.5 for the time
 domain plot and calculation for the duty factor of the device.
- 2. Head and Hotspot Bluetooth SAR were evaluated for BT BR tethering applications.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 04 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 91 of 137

12 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

12.1 Introduction

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

12.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("-").

(*) For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

FCC ID: A3LSMF711JPN	Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 92 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 92 01 137

© 2021 PCTEST

REV 21.4 M
09/11/2019

2021 PCTEST All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopyin

12.3 Head SAR Simultaneous Transmission Analysis

Table 12-1
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.183	0.078	0.261
	GSM 1900	0.068	0.078	0.146
	UMTS 850	0.401	0.078	0.479
Head SAR	LTE Band 12	0.174	0.078	0.252
neau SAR	LTE Band 13	0.159	0.078	0.237
	LTE Band 5 (Cell)	0.314	0.078	0.392
	LTE Band 4 (AWS)	0.107	0.078	0.185
	LTE Band 41	0.123	0.078	0.201

Table 12-2
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.183	0.178	0.361
	GSM 1900	0.068	0.178	0.246
	UMTS 850	0.401	0.178	0.579
Head SAR	LTE Band 12	0.174	0.178	0.352
I lead SAIN	LTE Band 13	0.159	0.178	0.337
	LTE Band 5 (Cell)	0.314	0.178	0.492
	LTE Band 4 (AWS)	0.107	0.178	0.285
	LTE Band 41	0.123	0.178	0.301

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 02 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 93 of 137

Table 12-3
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.183	0.380	0.563
	GSM 1900	0.068	0.380	0.448
	UMTS 850	0.401	0.380	0.781
Head SAR	LTE Band 12	0.174	0.380	0.554
Fleau SAN	LTE Band 13	0.159	0.380	0.539
	LTE Band 5 (Cell)	0.314	0.380	0.694
	LTE Band 4 (AWS)	0.107	0.380	0.487
	LTE Band 41	0.123	0.380	0.503

Table 12-4
Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.183	0.129	0.312
	GSM 1900	0.068	0.129	0.197
	UMTS 850	0.401	0.129	0.530
Head SAR	LTE Band 12	0.174	0.129	0.303
rieau SAN	LTE Band 13	0.159	0.129	0.288
	LTE Band 5 (Cell)	0.314	0.129	0.443
	LTE Band 4 (AWS)	0.107	0.129	0.236
	LTE Band 41	0.123	0.129	0.252

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dago 04 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 94 of 137

Table 12-5 Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Held to Ear)

Onnanance	Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Held to Lar)					
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	1+2		
	GSM 850	0.183	0.189	0.372		
	GSM 1900	0.068	0.189	0.257		
	UMTS 850	0.401	0.189	0.590		
Head SAR	LTE Band 12	0.174	0.189	0.363		
Heau SAK	LTE Band 13	0.159	0.189	0.348		
	LTE Band 5 (Cell)	0.314	0.189	0.503		
	LTE Band 4 (AWS)	0.107	0.189	0.296		
	LTE Band 41	0.123	0.189	0.312		

Table 12-6 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.183	0.129	0.078	0.390
	GSM 1900	0.068	0.129	0.078	0.275
	UMTS 850	0.401	0.129	0.078	0.608
Head SAR	LTE Band 12	0.174	0.129	0.078	0.381
Tieau SAN	LTE Band 13	0.159	0.129	0.078	0.366
	LTE Band 5 (Cell)	0.314	0.129	0.078	0.521
	LTE Band 4 (AWS)	0.107	0.129	0.078	0.314
	LTE Band 41	0.123	0.129	0.078	0.330

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 05 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 95 of 137

Table 12-7 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Held to Ear)

Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
	1	2	3	1+2+3
GSM 850	0.183	0.189	0.078	0.450
GSM 1900	0.068	0.189	0.078	0.335
UMTS 850	0.401	0.189	0.078	0.668
LTE Band 12	0.174	0.189	0.078	0.441
LTE Band 13	0.159	0.189	0.078	0.426
LTE Band 5 (Cell)	0.314	0.189	0.078	0.581
LTE Band 4 (AWS)	0.107	0.189	0.078	0.374
LTE Band 41	0.123	0.189	0.078	0.390
	GSM 850 GSM 1900 UMTS 850 LTE Band 12 LTE Band 13 LTE Band 5 (Cell) LTE Band 4 (AWS)	Mode 2G/3G/4G SAR (W/kg) 1 GSM 850 0.183 GSM 1900 0.068 UMTS 850 0.401 LTE Band 12 LTE Band 12 LTE Band 13 0.159 LTE Band 5 (Cell) LTE Band 4 (AWS) 0.107	Mode 2G/3G/4G SAR (W/kg) 1 2 GSM 850 0.183 0.189 GSM 1900 0.068 0.189 UMTS 850 0.401 0.189 LTE Band 12 LTE Band 13 0.159 0.189 LTE Band 5 (Cell) 0.314 0.189 LTE Band 4 (AWS) 0.107 0.189	Mode 2G/3G/4G SAR (W/kg) Bluetooth Ant 2 SAR (W/kg) WLAN Ant 1 SAR (W/kg) 1 2 3 GSM 850 0.183 0.189 0.078 GSM 1900 0.068 0.189 0.078 UMTS 850 0.401 0.189 0.078 LTE Band 12 0.174 0.189 0.078 LTE Band 13 0.159 0.189 0.078 LTE Band 5 (Cell) 0.314 0.189 0.078 LTE Band 4 (AWS) 0.107 0.189 0.078

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 00 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 96 of 137

Table 12-8 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Held to Ear)

i <u>iiiditalicous fi</u>	ansinission scenario with L	nactootii Aii	terma i ama	JOHE MINIO	WEAR (FICIA TO Ea
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.183	0.129	0.178	0.490
	GSM 1900	0.068	0.129	0.178	0.375
	UMTS 850	0.401	0.129	0.178	0.708
Hood SAP	LTE Band 12	0.174	0.129	0.178	0.481
Head SAR	LTE Band 13	0.159	0.129	0.178	0.466
	LTE Band 5 (Cell)	0.314	0.129	0.178	0.621
	LTE Band 4 (AWS)	0.107	0.129	0.178	0.414
	LTE Band 41	0.123	0.129	0.178	0.430

Table 12-9 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.183	0.189	0.178	0.550
	GSM 1900	0.068	0.189	0.178	0.435
	UMTS 850	0.401	0.189	0.178	0.768
Head SAR	LTE Band 12	0.174	0.189	0.178	0.541
neau SAR	LTE Band 13	0.159	0.189	0.178	0.526
	LTE Band 5 (Cell)	0.314	0.189	0.178	0.681
	LTE Band 4 (AWS)	0.107	0.189	0.178	0.474
	LTE Band 41	0.123	0.189	0.178	0.490

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ «General	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 97 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 97 01 137

Table 12-10 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5GHz MIMO WLAN (Held to Ear)

illiultarieous II	ansinission scenario with z	.+ OI IZ IVIIIVIC	VVLAIT allu	JOI 12 MINNO	WEAT (HEIG TO E
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.183	0.380	0.178	0.741
	GSM 1900	0.068	0.380	0.178	0.626
	UMTS 850	0.401	0.380	0.178	0.959
Head SAR	LTE Band 12	0.174	0.380	0.178	0.732
I lead SAN	LTE Band 13	0.159	0.380	0.178	0.717
	LTE Band 5 (Cell)	0.314	0.380	0.178	0.872
	LTE Band 4 (AWS)	0.107	0.380	0.178	0.665
	LTE Band 41	0.123	0.380	0.178	0.681

Table 12-11 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Held to Ear)

· · · · · · · · · · · · · · · · · · ·		(11010 to Ear)	1		
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.183	0.129	0.244	0.556
	GSM 1900	0.068	0.129	0.244	0.441
	UMTS 850	0.401	0.129	0.244	0.774
Head SAR	LTE Band 12	0.174	0.129	0.244	0.547
neau SAR	LTE Band 13	0.159	0.129	0.244	0.532
	LTE Band 5 (Cell)	0.314	0.129	0.244	0.687
	LTE Band 4 (AWS)	0.107	0.129	0.244	0.480
	LTE Band 41	0.123	0.129	0.244	0.496

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 00 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 98 of 137

Table 12-12 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
	GSM 850	0.183	0.129	0.078	0.244	0.634
	GSM 1900	0.068	0.129	0.078	0.244	0.519
	UMTS 850	0.401	0.129	0.078	0.244	0.852
Head SAR	LTE Band 12	0.174	0.129	0.078	0.244	0.625
rieau SAN	LTE Band 13	0.159	0.129	0.078	0.244	0.610
	LTE Band 5 (Cell)	0.314	0.129	0.078	0.244	0.765
	LTE Band 4 (AWS)	0.107	0.129	0.078	0.244	0.558
	LTE Band 41	0.123	0.129	0.078	0.244	0.574

Table 12-13
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz
MIMO WLAN (Held to Ear)

minio WEAR (ficia to Ear)							
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3+4	
	GSM 850	0.183	0.129	0.244	0.178	0.734	
	GSM 1900	0.068	0.129	0.244	0.178	0.619	
	UMTS 850	0.401	0.129	0.244	0.178	0.952	
Head SAR	LTE Band 12	0.174	0.129	0.244	0.178	0.725	
neau SAR	LTE Band 13	0.159	0.129	0.244	0.178	0.710	
	LTE Band 5 (Cell)	0.314	0.129	0.244	0.178	0.865	
	LTE Band 4 (AWS)	0.107	0.129	0.244	0.178	0.658	
	LTE Band 41	0.123	0.129	0.244	0.178	0.674	

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dags 00 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 99 of 137

REV 21.4 M 09/11/2019

12.4 Open Body-Worn Simultaneous Transmission Analysis

Table 12-14
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.129	0.058	0.187
	GSM 1900	0.501	0.058	0.559
	UMTS 850	0.330	0.058	0.388
Body Morn CAD	LTE Band 12	0.176	0.058	0.234
Body - Worn SAR	LTE Band 13	0.158	0.058	0.216
	LTE Band 5 (Cell)	0.265	0.058	0.323
	LTE Band 4 (AWS)	0.668	0.058	0.726
	LTE Band 41	0.243	0.058	0.301

Table 12-15
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.129	0.090	0.219
	GSM 1900	0.501	0.090	0.591
	UMTS 850	0.330	0.090	0.420
Body More CAD	LTE Band 12	0.176	0.090	0.266
Body - Worn SAR	LTE Band 13	0.158	0.090	0.248
	LTE Band 5 (Cell)	0.265	0.090	0.355
	LTE Band 4 (AWS)	0.668	0.090	0.758
	LTE Band 41	0.243	0.090	0.333

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 100 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 100 01 137

Table 12-16
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Body-Worn at 1.5 cm)

official edge Transmission ocenario with 2.4 one without Wear (body-worn at 1.5 cm)					
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	
	GSM 850	0.129	0.154	0.283	
	GSM 1900	0.501	0.154	0.655	
	UMTS 850	0.330	0.154	0.484	
Pody Morn SAP	LTE Band 12	0.176	0.154	0.330	
Body - Worn SAR	LTE Band 13	0.158	0.154	0.312	
	LTE Band 5 (Cell)	0.265	0.154	0.419	
	LTE Band 4 (AWS)	0.668	0.154	0.822	
	LTE Band 41	0.243	0.154	0.397	

Table 12-17
Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.129	0.047	0.176
	GSM 1900	0.501	0.047	0.548
	UMTS 850	0.330	0.047	0.377
Body - Worn SAR	LTE Band 12	0.176	0.047	0.223
Body - Worll SAR	LTE Band 13	0.158	0.047	0.205
	LTE Band 5 (Cell)	0.265	0.047	0.312
	LTE Band 4 (AWS)	0.668	0.047	0.715
	LTE Band 41	0.243	0.047	0.290

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 404 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 101 of 137

Table 12-18 Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.129	0.038	0.167
	GSM 1900	0.501	0.038	0.539
	UMTS 850	0.330	0.038	0.368
Body - Worn SAR	LTE Band 12	0.176	0.038	0.214
body - Wolfi SAR	LTE Band 13	0.158	0.038	0.196
	LTE Band 5 (Cell)	0.265	0.038	0.303
	LTE Band 4 (AWS)	0.668	0.038	0.706
	LTE Band 41	0.243	0.038	0.281

Table 12-19 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

at 1.5 cm)						
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2+3	
	GSM 850	0.129	0.047	0.058	0.234	
	GSM 1900	0.501	0.047	0.058	0.606	
	UMTS 850	0.330	0.047	0.058	0.435	
Dody Mars CAD	LTE Band 12	0.176	0.047	0.058	0.281	
Body - Worn SAR	LTE Band 13	0.158	0.047	0.058	0.263	
	LTE Band 5 (Cell)	0.265	0.047	0.058	0.370	
	LTE Band 4 (AWS)	0.668	0.047	0.058	0.773	
	LTE Band 41	0.243	0.047	0.058	0.348	

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 402 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 102 of 137

© 2021 PCTEST REV 21.4 M

Table 12-20 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.129	0.038	0.058	0.225
	GSM 1900	0.501	0.038	0.058	0.597
	UMTS 850	0.330	0.038	0.058	0.426
Pody Morn CAD	LTE Band 12	0.176	0.038	0.058	0.272
Body - Worn SAR	LTE Band 13	0.158	0.038	0.058	0.254
	LTE Band 5 (Cell)	0.265	0.038	0.058	0.361
	LTE Band 4 (AWS)	0.668	0.038	0.058	0.764
	LTE Band 41	0.243	0.038	0.058	0.339

Table 12-21 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Body-Worn at 1.5 cm)

(Body-Worll at 1.5 cm)						
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2+3	
	GSM 850	0.129	0.047	0.090	0.266	
	GSM 1900	0.501	0.047	0.090	0.638	
	UMTS 850	0.330	0.047	0.090	0.467	
Dody Mars CAD	LTE Band 12	0.176	0.047	0.090	0.313	
Body - Worn SAR	LTE Band 13	0.158	0.047	0.090	0.295	
	LTE Band 5 (Cell)	0.265	0.047	0.090	0.402	
	LTE Band 4 (AWS)	0.668	0.047	0.090	0.805	
	LTE Band 41	0.243	0.047	0.090	0.380	

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 402 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 103 of 137

Table 12-22 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.129	0.038	0.090	0.257
	GSM 1900	0.501	0.038	0.090	0.629
	UMTS 850	0.330	0.038	0.090	0.458
Pody Morn CAD	LTE Band 12	0.176	0.038	0.090	0.304
Body - Worn SAR	LTE Band 13	0.158	0.038	0.090	0.286
	LTE Band 5 (Cell)	0.265	0.038	0.090	0.393
	LTE Band 4 (AWS)	0.668	0.038	0.090	0.796
	LTE Band 41	0.243	0.038	0.090	0.371

Table 12-23 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.129	0.154	0.090	0.373
	GSM 1900	0.501	0.154	0.090	0.745
	UMTS 850	0.330	0.154	0.090	0.574
Pady Mara SAP	LTE Band 12	0.176	0.154	0.090	0.420
Body - Worn SAR	LTE Band 13	0.158	0.154	0.090	0.402
	LTE Band 5 (Cell)	0.265	0.154	0.090	0.509
	LTE Band 4 (AWS)	0.668	0.154	0.090	0.912
	LTE Band 41	0.243	0.154	0.090	0.487

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 404 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 104 of 137

© 2021 PCTEST REV 21.4 M

Table 12-24 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Body-Worn at 1.5 cm)

(Body-Worll at 1.5 cm)						
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2+3	
	GSM 850	0.129	0.047	0.048	0.224	
	GSM 1900	0.501	0.047	0.048	0.596	
	UMTS 850	0.330	0.047	0.048	0.425	
Pody More CAD	LTE Band 12	0.176	0.047	0.048	0.271	
Body - Worn SAR	LTE Band 13	0.158	0.047	0.048	0.253	
	LTE Band 5 (Cell)	0.265	0.047	0.048	0.360	
	LTE Band 4 (AWS)	0.668	0.047	0.048	0.763	
	LTE Band 41	0.243	0.047	0.048	0.338	

Table 12-25 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

and 3 GHz Antenna i WEAN			(Body Wor	ii at 1.5 ciii)		
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
	GSM 850	0.129	0.047	0.048	0.058	0.282
	GSM 1900	0.501	0.047	0.048	0.058	0.654
	UMTS 850	0.330	0.047	0.048	0.058	0.483
Body Morn CAD	LTE Band 12	0.176	0.047	0.048	0.058	0.329
Body - Worn SAR	LTE Band 13	0.158	0.047	0.048	0.058	0.311
	LTE Band 5 (Cell)	0.265	0.047	0.048	0.058	0.418
	LTE Band 4 (AWS)	0.668	0.047	0.048	0.058	0.821
	LTE Band 41	0.243	0.047	0.048	0.058	0.396

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 405 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 105 of 137

REV 21.4 M

Table 12-26 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
	GSM 850	0.129	0.047	0.048	0.090	0.314
	GSM 1900	0.501	0.047	0.048	0.090	0.686
	UMTS 850	0.330	0.047	0.048	0.090	0.515
Body Morn CAD	LTE Band 12	0.176	0.047	0.048	0.090	0.361
Body - Worn SAR	LTE Band 13	0.158	0.047	0.048	0.090	0.343
	LTE Band 5 (Cell)	0.265	0.047	0.048	0.090	0.450
	LTE Band 4 (AWS)	0.668	0.047	0.048	0.090	0.853
	LTE Band 41	0.243	0.047	0.048	0.090	0.428

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ «General	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Daga 406 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 106 of 137

12.5 Open Hotspot SAR Simultaneous Transmission Analysis

Table 12-27
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Hotspot at 1.0 cm)

Simultaneous i	ransinission scenario with a	GIIZ WLAN	Antenna i (noispoi at 1.0 cm
Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.319	0.267	0.586
	GPRS 1900	0.584	0.267	0.851
	UMTS 850	0.310	0.267	0.577
Hotopot CAD	LTE Band 12	0.204	0.267	0.471
Hotspot SAR	LTE Band 13	0.288	0.267	0.555
	LTE Band 5 (Cell)	0.315	0.267	0.582
	LTE Band 4 (AWS)	0.638	0.267	0.905
	LTE Band 41	0.276	0.267	0.543

Table 12-28
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Hotspot at 1.0 cm)

- Cilitariano Ca	official cods Transmission occurring with 5 one minio WEAR (Hotspot at 1:0 cm					
Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)		
		1	2	1+2		
	GPRS 850	0.319	0.187	0.506		
	GPRS 1900	0.584	0.187	0.771		
	UMTS 850	0.310	0.187	0.497		
Hotopot CAD	LTE Band 12	0.204	0.187	0.391		
Hotspot SAR	LTE Band 13	0.288	0.187	0.475		
	LTE Band 5 (Cell)	0.315	0.187	0.502		
	LTE Band 4 (AWS)	0.638	0.187	0.825		
	LTE Band 41	0.276	0.187	0.463		

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 407 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 107 of 137

Table 12-29 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.319	0.335	0.654
	GPRS 1900	0.584	0.335	0.919
	UMTS 850	0.310	0.335	0.645
Hotopot CAD	LTE Band 12	0.204	0.335	0.539
Hotspot SAR	LTE Band 13	0.288	0.335	0.623
	LTE Band 5 (Cell)	0.315	0.335	0.650
	LTE Band 4 (AWS)	0.638	0.335	0.973
	LTE Band 41	0.276	0.335	0.611

Table 12-30 Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Hotspot at 1.0 cm)

Simultaneous Transmission Scenario with Bluetooth Antenna 1 (notspot at 1.0 cm)					
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	
	GPRS 850	0.319	0.114	0.433	
	GPRS 1900	0.584	0.114	0.698	
	UMTS 850	0.310	0.114	0.424	
Hotopot CAD	LTE Band 12	0.204	0.114	0.318	
Hotspot SAR	LTE Band 13	0.288	0.114	0.402	
	LTE Band 5 (Cell)	0.315	0.114	0.429	
	LTE Band 4 (AWS)	0.638	0.114	0.752	
	LTE Band 41	0.276	0.114	0.390	

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 100 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 108 of 137

Table 12-31
Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Hotspot at 1.0 cm)

	Transmission ocenano witi	- Diaotootii 7	,	otspot at 1:0 om/
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.319	0.115	0.434
	GPRS 1900	0.584	0.115	0.699
	UMTS 850	0.310	0.115	0.425
Hotonot CAD	LTE Band 12	0.204	0.115	0.319
Hotspot SAR	LTE Band 13	0.288	0.115	0.403
	LTE Band 5 (Cell)	0.315	0.115	0.430
	LTE Band 4 (AWS)	0.638	0.115	0.753
	LTE Band 41	0.276	0.115	0.391

Table 12-32 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

	1.0 0111)						
Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	1+2+3		
	GPRS 850	0.319	0.267	0.114	0.700		
	GPRS 1900	0.584	0.267	0.114	0.965		
	UMTS 850	0.310	0.267	0.114	0.691		
Hotopot CAD	LTE Band 12	0.204	0.267	0.114	0.585		
Hotspot SAR	LTE Band 13	0.288	0.267	0.114	0.669		
	LTE Band 5 (Cell)	0.315	0.267	0.114	0.696		
	LTE Band 4 (AWS)	0.638	0.267	0.114	1.019		
	LTE Band 41	0.276	0.267	0.114	0.657		

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 109 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 109 01 137

Table 12-33 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

	,	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR	5 GHz WLAN Ant 1 SAR	Σ SAR (W/kg)
Configuration	Mode	SAIT (W/Kg)	(W/kg)	(W/kg)	
		1	2	3	1+2+3
	GPRS 850	0.319	0.115	0.267	0.701
	GPRS 1900	0.584	0.115	0.267	0.966
	UMTS 850	0.310	0.115	0.267	0.692
Hotopot CAD	LTE Band 12	0.204	0.115	0.267	0.586
Hotspot SAR	LTE Band 13	0.288	0.115	0.267	0.670
	LTE Band 5 (Cell)	0.315	0.115	0.267	0.697
	LTE Band 4 (AWS)	0.638	0.115	0.267	1.020
	LTE Band 41	0.276	0.115	0.267	0.658

Table 12-34 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.319	0.114	0.187	0.620
	GPRS 1900	0.584	0.114	0.187	0.885
	UMTS 850	0.310	0.114	0.187	0.611
Hotopot CAD	LTE Band 12	0.204	0.114	0.187	0.505
Hotspot SAR	LTE Band 13	0.288	0.114	0.187	0.589
	LTE Band 5 (Cell)	0.315	0.114	0.187	0.616
	LTE Band 4 (AWS)	0.638	0.114	0.187	0.939
	LTE Band 41	0.276	0.114	0.187	0.577

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 440 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 110 of 137

REV 21.4 M

Table 12-35
Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN
(Hotspot at 1.0 cm)

Configuration Mode		2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.319	0.115	0.187	0.621
	GPRS 1900	0.584	0.115	0.187	0.886
	UMTS 850	0.310	0.115	0.187	0.612
Hotspot SAR	LTE Band 12	0.204	0.115	0.187	0.506
	LTE Band 13	0.288	0.115	0.187	0.590
	LTE Band 5 (Cell)	0.315	0.115	0.187	0.617
	LTE Band 4 (AWS)	0.638	0.115	0.187	0.940
	LTE Band 41	0.276	0.115	0.187	0.578

Table 12-36
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.319	0.335	0.187	0.841
	GPRS 1900	0.584	0.335	0.187	1.106
	UMTS 850	0.310	0.335	0.187	0.832
Hotopot CAD	LTE Band 12	0.204	0.335	0.187	0.726
Hotspot SAR	LTE Band 13	0.288	0.335	0.187	0.810
	LTE Band 5 (Cell)	0.315	0.335	0.187	0.837
	LTE Band 4 (AWS)	0.638	0.335	0.187	1.160
	LTE Band 41	0.276	0.335	0.187	0.798

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 444 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 111 of 137

Table 12-37 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Hotspot at 1.0 cm)

(notspot at 1.0 cm)						
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2+3	
	GPRS 850	0.319	0.114	0.152	0.585	
	GPRS 1900	0.584	0.114	0.152	0.850	
	UMTS 850	0.310	0.114	0.152	0.576	
Hotopot CAD	LTE Band 12	0.204	0.114	0.152	0.470	
Hotspot SAR	LTE Band 13	0.288	0.114	0.152	0.554	
	LTE Band 5 (Cell)	0.315	0.114	0.152	0.581	
	LTE Band 4 (AWS)	0.638	0.114	0.152	0.904	
	LTE Band 41	0.276	0.114	0.152	0.542	

Table 12-38 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

	and 5 GHZ Antenna 1 WLAN (Hotspot at 1.0 cm)							
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3+4		
	GPRS 850	0.319	0.114	0.152	0.267	0.852		
	GPRS 1900	0.584	0.114	0.152	0.267	1.117		
	UMTS 850	0.310	0.114	0.152	0.267	0.843		
Hotopot CAD	LTE Band 12	0.204	0.114	0.152	0.267	0.737		
Hotspot SAR	LTE Band 13	0.288	0.114	0.152	0.267	0.821		
	LTE Band 5 (Cell)	0.315	0.114	0.152	0.267	0.848		
	LTE Band 4 (AWS)	0.638	0.114	0.152	0.267	1.171		
	LTE Band 41	0.276	0.114	0.152	0.267	0.809		

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 442 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 112 of 137

REV 21.4 M

Table 12-39 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (Hotspot at 1.0 cm)

Millio WEAR (Hotspot at 1.0 om)						
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
	GPRS 850	0.319	0.114	0.152	0.187	0.772
	GPRS 1900	0.584	0.114	0.152	0.187	1.037
	UMTS 850	0.310	0.114	0.152	0.187	0.763
Hotopot CAD	LTE Band 12	0.204	0.114	0.152	0.187	0.657
Hotspot SAR	LTE Band 13	0.288	0.114	0.152	0.187	0.741
	LTE Band 5 (Cell)	0.315	0.114	0.152	0.187	0.768
	LTE Band 4 (AWS)	0.638	0.114	0.152	0.187	1.091
	LTE Band 41	0.276	0.114	0.152	0.187	0.729

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 442 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 113 of 137

12.6 Phablet Simultaneous Transmission Analysis

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("-").

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore, no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

Table 12-40
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 1900	2.388	0.647	3.035
Phablet SAR	LTE Band 4 (AWS)	2.891	0.647	3.538
	LTE Band 41	1.117	0.647	1.764

Table 12-41
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 1900	2.388	1.062	3.450
Phablet SAR	LTE Band 4 (AWS)	2.891	1.062	3.953
	LTE Band 41	1.117	1.062	2.179

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 114 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 114 01 137

12.7 Closed Body-Worn Simultaneous Transmission Analysis

Table 12-42
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.253	0.000	0.253
	GSM 1900	0.204	0.000	0.204
	UMTS 850	0.467	0.000	0.467
Pody Morn SAP	LTE Band 12	0.127	0.000	0.127
Body - Worn SAR	LTE Band 13	0.260	0.000	0.260
	LTE Band 5 (Cell)	0.376	0.000	0.376
	LTE Band 4 (AWS)	0.272	0.000	0.272
	LTE Band 41	0.198	0.000	0.198

Table 12-43
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.253	0.043	0.296
	GSM 1900	0.204	0.043	0.247
	UMTS 850	0.467	0.043	0.510
Pody Morn SAP	LTE Band 12	0.127	0.043	0.170
Body - Worn SAR	LTE Band 13	0.260	0.043	0.303
	LTE Band 5 (Cell)	0.376	0.043	0.419
	LTE Band 4 (AWS)	0.272	0.043	0.315
	LTE Band 41	0.198	0.043	0.241

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ «General	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 115 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 115 01 137

Table 12-44 Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.253	0.051	0.304
	GSM 1900	0.204	0.051	0.255
	UMTS 850	0.467	0.051	0.518
Pody Worn SAP	LTE Band 12	0.127	0.051	0.178
Body - Worn SAR	LTE Band 13	0.260	0.051	0.311
	LTE Band 5 (Cell)	0.376	0.051	0.427
	LTE Band 4 (AWS)	0.272	0.051	0.323
	LTE Band 41	0.198	0.051	0.249

Table 12-45 Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.253	0.016	0.269
	GSM 1900	0.204	0.016	0.220
	UMTS 850	0.467	0.016	0.483
Pady Mars CAD	LTE Band 12	0.127	0.016	0.143
Body - Worn SAR	LTE Band 13	0.260	0.016	0.276
	LTE Band 5 (Cell)	0.376	0.016	0.392
	LTE Band 4 (AWS)	0.272	0.016	0.288
	LTE Band 41	0.198	0.016	0.214

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 116 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 116 of 137

Table 12-46
Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GSM 850	0.253	0.006	0.259
	GSM 1900	0.204	0.006	0.210
	UMTS 850	0.467	0.006	0.473
Pody Morn SAP	LTE Band 12	0.127	0.006	0.133
Body - Worn SAR	LTE Band 13	0.260	0.006	0.266
	LTE Band 5 (Cell)	0.376	0.006	0.382
	LTE Band 4 (AWS)	0.272	0.006	0.278
	LTE Band 41	0.198	0.006	0.204

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 447 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 117 of 137

Table 12-47
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN
(Body-Worn at 1.5 cm)

Configuration	Ì	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR	5 GHz WLAN Ant 1 SAR	Σ SAR (W/kg)
Configuration	Mode	· · · · · · · · ·	(W/kg)	(W/kg)	
		1	2	3	1+2+3
	GSM 850	0.253	0.016	0.000	0.269
	GSM 1900	0.204	0.016	0.000	0.220
	UMTS 850	0.467	0.016	0.000	0.483
Dody Mars CAD	LTE Band 12	0.127	0.016	0.000	0.143
Body - Worn SAR	LTE Band 13	0.260	0.016	0.000	0.276
	LTE Band 5 (Cell)	0.376	0.016	0.000	0.392
	LTE Band 4 (AWS)	0.272	0.016	0.000	0.288
	LTE Band 41	0.198	0.016	0.000	0.214

Table 12-48
Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

(Body-Worll at 1.5 cm)								
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2+3			
	GSM 850	0.253	0.006	0.000	0.259			
	GSM 1900	0.204	0.006	0.000	0.210			
	UMTS 850	0.467	0.006	0.000	0.473			
Pody Morn SAP	LTE Band 12	0.127	0.006	0.000	0.133			
Body - Worn SAR	LTE Band 13	0.260	0.006	0.000	0.266			
	LTE Band 5 (Cell)	0.376	0.006	0.000	0.382			
	LTE Band 4 (AWS)	0.272	0.006	0.000	0.278			
	LTE Band 41	0.198	0.006	0.000	0.204			

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 449 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 118 of 137

© 2021 PCTEST REV 21.4 M 09/11/2019

Table 12-49
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN
(Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR	5 GHz WLAN MIMO SAR	Σ SAR (W/kg)
	euc		(W/kg)	(W/kg)	4.0.0
		1	2	3	1+2+3
	GSM 850	0.253	0.016	0.043	0.312
	GSM 1900	0.204	0.016	0.043	0.263
	UMTS 850	0.467	0.016	0.043	0.526
Pody More CAD	LTE Band 12	0.127	0.016	0.043	0.186
Body - Worn SAR	LTE Band 13	0.260	0.016	0.043	0.319
	LTE Band 5 (Cell)	0.376	0.016	0.043	0.435
	LTE Band 4 (AWS)	0.272	0.016	0.043	0.331
	LTE Band 41	0.198	0.016	0.043	0.257

Table 12-50 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.253	0.006	0.043	0.302
	GSM 1900	0.204	0.006	0.043	0.253
	UMTS 850	0.467	0.006	0.043	0.516
Pody Morn CAD	LTE Band 12	0.127	0.006	0.043	0.176
Body - Worn SAR	LTE Band 13	0.260	0.006	0.043	0.309
	LTE Band 5 (Cell)	0.376	0.006	0.043	0.425
	LTE Band 4 (AWS)	0.272	0.006	0.043	0.321
	LTE Band 41	0.198	0.006	0.043	0.247

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ «General	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dago 110 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 119 of 137

REV 21.4 M 09/11/2019 Table 12-51
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5GHz MIMO WLAN
(Body-Work at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.253	0.051	0.043	0.347
	GSM 1900	0.204	0.051	0.043	0.298
	UMTS 850	0.467	0.051	0.043	0.561
Pody More CAD	LTE Band 12	0.127	0.051	0.043	0.221
Body - Worn SAR	LTE Band 13	0.260	0.051	0.043	0.354
	LTE Band 5 (Cell)	0.376	0.051	0.043	0.470
	LTE Band 4 (AWS)	0.272	0.051	0.043	0.366
	LTE Band 41	0.198	0.051	0.043	0.292

Table 12-52 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GSM 850	0.253	0.016	0.009	0.278
	GSM 1900	0.204	0.016	0.009	0.229
	UMTS 850	0.467	0.016	0.009	0.492
Body - Worn SAR	LTE Band 12	0.127	0.016	0.009	0.152
Body - Wolfi SAR	LTE Band 13	0.260	0.016	0.009	0.285
	LTE Band 5 (Cell)	0.376	0.016	0.009	0.401
	LTE Band 4 (AWS)	0.272	0.016	0.009	0.297
	LTE Band 41	0.198	0.016	0.009	0.223

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 120 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 120 of 137

REV 21.4 M 09/11/2019

Table 12-53 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

2110 0 0112 / 111011110 1 1 1 1 2 1 1 1		(Dody troin at the only				
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
	GSM 850	0.253	0.016	0.009	0.000	0.278
	GSM 1900	0.204	0.016	0.009	0.000	0.229
	UMTS 850	0.467	0.016	0.009	0.000	0.492
Body Morn CAD	LTE Band 12	0.127	0.016	0.009	0.000	0.152
Body - Worn SAR	LTE Band 13	0.260	0.016	0.009	0.000	0.285
	LTE Band 5 (Cell)	0.376	0.016	0.009	0.000	0.401
	LTE Band 4 (AWS)	0.272	0.016	0.009	0.000	0.297
	LTE Band 41	0.198	0.016	0.009	0.000	0.223

Table 12-54 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
	GSM 850	0.253	0.016	0.009	0.043	0.321
	GSM 1900	0.204	0.016	0.009	0.043	0.272
	UMTS 850	0.467	0.016	0.009	0.043	0.535
Body - Worn SAR	LTE Band 12	0.127	0.016	0.009	0.043	0.195
Body - Wolfi SAR	LTE Band 13	0.260	0.016	0.009	0.043	0.328
	LTE Band 5 (Cell)	0.376	0.016	0.009	0.043	0.444
	LTE Band 4 (AWS)	0.272	0.016	0.009	0.043	0.340
	LTE Band 41	0.198	0.016	0.009	0.043	0.266

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogo 424 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 121 of 137

REV 21.4 M

12.8 Closed Hotspot SAR Simultaneous Transmission Analysis

Table 12-55
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Hotspot at 0.5 cm)

Simultaneous i	ransinission scenario with	S GHZ WLAN	Antenna i	(Hotspot at 0.5 cm
Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.949	0.363	1.312
	GPRS 1900	0.894	0.363	1.257
	UMTS 850	0.879	0.363	1.242
Hotonot CAD	LTE Band 12	0.408	0.363	0.771
Hotspot SAR	LTE Band 13	0.772	0.363	1.135
	LTE Band 5 (Cell)	0.845	0.363	1.208
	LTE Band 4 (AWS)	0.953	0.363	1.316
	LTE Band 41	0.843	0.363	1.206

Table 12-56
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Hotspot at 0.5 cm)

Configuration	Mode Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.949	0.491	1.440
	GPRS 1900	0.894	0.491	1.385
	UMTS 850	0.879	0.491	1.370
Hotopot CAD	LTE Band 12	0.408	0.491	0.899
Hotspot SAR	LTE Band 13	0.772	0.491	1.263
	LTE Band 5 (Cell)	0.845	0.491	1.336
	LTE Band 4 (AWS)	0.953	0.491	1.444
	LTE Band 41	0.843	0.491	1.334

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Daga 422 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 122 of 137	

Table 12-57
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Hotspot at 0.5 cm)

Omnananooao	Transmission occitatio with	. 2 0	110 11127 (11 (1	iotopot at old ollij
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.949	0.525	1.474
	GPRS 1900	0.894	0.525	1.419
	UMTS 850	0.879	0.525	1.404
Hotopot CAD	LTE Band 12	0.408	0.525	0.933
Hotspot SAR	LTE Band 13	0.772	0.525	1.297
	LTE Band 5 (Cell)	0.845	0.525	1.370
	LTE Band 4 (AWS)	0.953	0.525	1.478
	LTE Band 41	0.843	0.525	1.368

Table 12-58
Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Hotspot at 0.5 cm)

Configuration	Mode Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.949	0.218	1.167
	GPRS 1900	0.894	0.218	1.112
	UMTS 850	0.879	0.218	1.097
Hotopot CAD	LTE Band 12	0.408	0.218	0.626
Hotspot SAR	LTE Band 13	0.772	0.218	0.990
	LTE Band 5 (Cell)	0.845	0.218	1.063
	LTE Band 4 (AWS)	0.953	0.218	1.171
	LTE Band 41	0.843	0.218	1.061

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Done 122 of 127	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 123 of 137	

Table 12-59 Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Hotspot at 0.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
	GPRS 850	0.949	0.323	1.272
	GPRS 1900	0.894	0.323	1.217
	UMTS 850	0.879	0.323	1.202
Hotopot CAD	LTE Band 12	0.408	0.323	0.731
Hotspot SAR	LTE Band 13	0.772	0.323	1.095
	LTE Band 5 (Cell)	0.845	0.323	1.168
	LTE Band 4 (AWS)	0.953	0.323	1.276
	LTE Band 41	0.843	0.323	1.166

Table 12-60 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Hotspot at 0.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2+3	
	GPRS 850	0.949	0.218	0.363	1.530	
	GPRS 1900	0.894	0.218	0.363	1.475	
	UMTS 850	0.879	0.218	0.363	1.460	
Hotopot CAD	LTE Band 12	0.408	0.218	0.363	0.989	
Hotspot SAR	LTE Band 13	0.772	0.218	0.363	1.353	
	LTE Band 5 (Cell)	0.845	0.218	0.363	1.426	
	LTE Band 4 (AWS)	0.953	0.218	0.363	1.534	
	LTE Band 41	0.843	0.218	0.363	1.424	

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Domo 424 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 124 of 137

Table 12-61 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Hotspot at 0.5 cm)

						0.5	cm)										
Con		figuration		Mode		2G/30 SAR (\		Bl An	.4 GHz luetooth at 2 SAR W/kg)	5 GHz WL Ant 1 SA (W/kg)	١R	Σ	SAR (W/k	(g)			
									2	3			1+2+3				
			GPRS 850			0.9	49		0.323	0.363		See	Table Be	low			
			GPRS 1900			0.8	94		0.323	0.363			1.580	0			
Hote		UMTS 850		0.8	79		0.323	0.363		1.565							
	-n-at CAD	LTE Bar		12	0.4	08		0.323	0.363			1.094					
	HOI:	spot SAR	L	TE Band	13	0.7	72		0.323	0.363			1.458				
		-	LTE	Band 5 ((Cell)	0.8	45		0.323	0.363	3 1.531						
			LTE Band 4 (A		AWS)	0.9	53		0.323	0.363		See	Table Be	low			
		•	L	TE Band	41	0.8	43		0.323	0.363			1.529				
Sim	ult Tx	Configuration	GPRS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	(\\//\ca\				Configuration	LTE Band 4 (AWS) SAR (W/kg)	Blue Ant 2	GHz tooth SAR /kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ S. (W/I	
			1	2	3	1+2+3				1	:	2	3	1+2	+3		
		Back	0.949	0.028	0.068	1.045			Back	0.673	0.0	028	0.068	0.7	69		
		Front	0.303	0.215	0.363*	0.791	I		Eront	0.116	0.1	215	0.363*	0.6	QΛ		

Simult Tx	Configuration	GPRS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx		LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
	Back	0.949	0.028	0.068	1.045		Back	0.673	0.028	0.068	0.769
	Front	0.203	0.215	0.363*	0.781		Front	0.116	0.215	0.363*	0.694
Body SAR	Bottom	0.226	0.144	0.363	0.733	Body SAR	Bottom	0.953	0.144	0.363	1.460
	Right	0.111	-	0.363*	0.474		Right	0.025	-	0.363*	0.388
	Left	0.172	0.323	-	0.495		Left	0.175	0.323	-	0.498

FCC ID: A3LSMF711JPN	PCTEST* Prout to be post of @ violented	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 125 of 127	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset		Page 125 of 137
21 PCTEST				REV 21.4 M

Table 12-62 Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Hotspot at 0.5 cm)

				(h	iotspot a	at 0.5 (cm)					
Cor	nfiguration		Mode			G/4G N/kg)	Blue Ant 1	GHz tooth SAR /kg)	5 GHz WLAN MIMO SAR (W/kg)		Σ SAR (W/kg)	
					1		2		3		1+2+3	
			GPRS 8	50	0.94	49	0.2	218	0.491	S	See Table Be	low
			GPRS 19	00	0.89	94	0.2	218	0.491	S	See Table Be	low
			UMTS 85	50	0.8	79	0.2	218	0.491		1.588	
		L	TE Band		0.40		0.2	218	0.491		1.117	
Hotspot SAR		LTE Band 13			0.7			218	0.491		1.481	
			E Band 5		0.84		0.218		0.491		1.554	
			Band 4 (,	0.9			218	0.491	S	See Table Be	low
			TE Band		0.84		0.2	218	0.491		1.552	
Simult Tx	Configuration	GPRS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult 7	It Tx Configuration		GPRS 1900 SAR (W/kg)	2.4 GHz Bluetootl Ant 1 SA (W/kg)	th WLAN AR MIMO SAR	Σ SAR (W/kg)
		1	2	3	1+2+3				1	2	3	1+2+3
	Back	0.949	0.053	0.491*	1.493			Back	0.424	0.053	0.491*	0.968
	Front	0.203	0.218	0.377	0.798			Front	0.145	0.218	0.377	0.740
Body SAR	Bottom	0.226	0.108	0.491	0.825	Body SA	AR	Bottom	0.894	0.108	0.491	1.493
	Right	0.111	0.061	0.491*	0.663			Right	0.047	0.061	0.491*	0.599
	Left	0.172	-	0.491*	0.663			Left	0.108	-	0.491*	0.599
			Simult Tx	Configuration	LTE Band 4 (AWS) SAF (W/kg)		oth SAR M	5 GHz WLAN IMO SAR (W/kg)	Σ SAR (W/kg)			
					1	2		3	1+2+3			

Simult Tx	Configuration	LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	Back	0.673	0.053	0.491*	1.217
	Front	0.116	0.218	0.377	0.711
Body SAR	Bottom	0.953	0.108	0.491	1.552
	Right	0.025	0.061	0.491*	0.577
	Left	0.175	-	0.491*	0.666

FCC ID: A3LSMF711JPN	Proof to be part of the schemen	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:		Dage 426 of 427
1M2106100066-01.A3L (Re	v 1) 06/28/2021 – 07/31/2021	Portable Handset		Page 126 of 137

Table 12-63 Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Hotspot at 0.5 cm)

					Cr	m)						
С	onfiguration		Mode		2G/30 SAR (V		BI An	.4 GHz uetooth t 2 SAR W/kg)	5 GHz WL MIMO S/ (W/kg)	AR Σ	Σ SAR (W/kg)	
					1	1		2	3		1+2+3	
			GPRS 85	60	0.94	49		0.323	0.491	S	ee Table Be	elow
		GPRS 1900		00	0.89	94		0.323	0.491	S	ee Table Be	elow
			UMTS 85	0	0.87	79		0.323	0.491	S	ee Table Be	low
	-11 0 4 D	L	TE Band	12	0.40	08		0.323	0.491		1.222	
	otspot SAR	L	TE Band	13	0.77	72		0.323	0.491		1.586	
		LTE	Band 5	(Cell)	0.84	45		0.323	0.491	S	ee Table Be	elow
			Band 4 (0.9			0.323	0.491	S	ee Table Be	elow
			TE Band		0.84			0.323	0.491		ee Table Be	
Simult T	x Configuration	GPRS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult		Configuration	LTE Band 5 (Cell) SAR	2.4 GHz Bluetootl Ant 2 SA (W/kg)	5 GHz N WLAN	Σ SAR (W/kg)
		1	2	3	1+2+3				1	2	3	1+2+3
	Back	0.949	0.028	0.491*	1.468			Back	0.845	0.028	0.491*	1.364
	Front	0.203	0.215	0.377	0.795			Front	0.147	0.215	0.377	0.739
Body SA		0.226	0.144	0.491	0.861	Body S	SAR	Bottom	0.144	0.144	0.491	0.779
	Right Left	0.111	0.323	0.491* 0.491*	0.602		ŀ	Right Left	0.093	0.323	0.491* 0.491*	0.584 1.036
Simult T		0.172 GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	0.986 Σ SAR (W/kg)	Simult	: Tx	Configuration	LTE Band 4 (AWS) SAR	2.4 GHz Bluetoott Ant 2 SA (W/kg)	5 GHz n WLAN	Σ SAR (W/kg)
	Deal			0.491*				DI				
	Back Front	0.424 0.145	0.028 0.215	0.491	0.943		ŀ	Back Front	0.673 0.116	0.028 0.215	0.491*	1.192 0.708
Body SA		0.894	0.144	0.491	1.529	Body S	SAR	Bottom	0.953	0.144	0.491	1.588
	Right	0.047	-	0.491*	0.538	1	İ	Right	0.025	-	0.491*	0.516
	Left	0.108	0.323	0.491*	0.922]		Left	0.175	0.323	0.491*	0.989
Simult T	x Configuration	UMTS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx		Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetootl Ant 2 SA (W/kg)	n WLAN	Σ SAR (W/kg)
		1	2	3	1+2+3				1	2	3	1+2+3
	Back	0.879	0.028	0.491*	1.398			Back	0.334	0.028	0.491*	0.853
	Front	0.177	0.215	0.377	0.769			Front	0.047	0.215	0.377	0.639
Body SA		0.232	0.144	0.491	0.867	Body S	SAR	Bottom	0.843	0.144	0.491	1.478
	Right	0.102	-	0.491*	0.593			Right	-	-	0.491*	0.491

FCC ID: A3LSMF711JPN	PCTEST* Proof to be part of @ comment	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 127 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 127 of 137

Left

0.139

0.323

0.491*

0.953

Left

0.215

0.323

0.491*

1.029

Table 12-64
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Hotspot at 0.5 cm)

(notspot at 0.5 cm)								
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)			
		1	2	3	1+2+3			
	GPRS 850	0.949	0.525	0.049	1.523			
	GPRS 1900	0.894	0.525	0.049	1.468			
	UMTS 850	0.879	0.525	0.049	1.453			
Hotopot CAD	LTE Band 12	0.408	0.525	0.049	0.982			
Hotspot SAR	LTE Band 13	0.772	0.525	0.049	1.346			
	LTE Band 5 (Cell)	0.845	0.525	0.049	1.419			
	LTE Band 4 (AWS)	0.953	0.525	0.049	1.527			
	LTE Band 41	0.843	0.525	0.049	1.417			

Table 12-65
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2
(Hotspot at 0.5 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
	GPRS 850	0.949	0.218	0.340	1.507
	GPRS 1900	0.894	0.218	0.340	1.452
	UMTS 850	0.879	0.218	0.340	1.437
Hotopot CAD	LTE Band 12	0.408	0.218	0.340	0.966
Hotspot SAR	LTE Band 13	0.772	0.218	0.340	1.330
	LTE Band 5 (Cell)	0.845	0.218	0.340	1.403
	LTE Band 4 (AWS)	0.953	0.218	0.340	1.511
	LTE Band 41	0.843	0.218	0.340	1.401

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 128 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 128 01 137

Table 12-66 Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz Antenna 1 WLAN (Hotspot at 0.5 cm)

	and 5 GHZ AI				Z AIICI	iiia i	** = \	Oto	pot at	0.0 0111)				
Configuration		Mode			2G/30 SAR (V	G/4G V/kg)	2.4 GHz Bluetooth 1 SAR (W/			z WLAN at 17 dB (W/kg)	2.4 G WLAN SAR (V	Ant 2	ΣSAR (W/kg)
			1		2			3	4		1+2+	3+4		
		GI	PRS 850		0.94	49	0.218		0.	107	0.33	37	See Table	Below
			RS 1900		0.89	94	0.218		0.	107	0.33	37	1.55	56
		UN	VITS 850		0.87	79	0.218		0.	107	0.33	37	1.541	
		LTE	Band 1	2	0.40	08	0.218		0.	107	0.337		1.070	
Hotspot	SAR		Band 1		0.77		0.218			107	0.33		1.43	
			and 5 (C		0.84	45	0.218			107	0.33	37	1.50	
			and 4 (A)		0.9	53	0.218		0.107		0.337		See Table Below	
		LTE	Band 4	1	0.84	43	0.218		0.	107	0.337		1.505	
Simult Tx	Configuration	GPRS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 at 17 dB SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAF (W/kg		Simult Tx Conf		LTE Band 4 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN An 1 at 17 dB SAR (W/kg	2 SAR	Σ SAR (W/kg)
		1	2	3	4	1+2+3-	+4			1	2	3	4	1+2+3+4
	Back	0.949	0.053	0.107*	0.041	1.150)		Back	0.673	0.053	0.107*	0.041	0.874
	Front	0.203	0.218	0.107*	0.337*	0.865		_	Front	0.116	0.218	0.107*	0.337*	0.778
Body SAR	Bottom	0.226	0.108	0.107	0.167	0.608		-	Bottom	0.953	0.108	0.107	0.167	1.335
	Right	0.111	0.061	0.107*	-	0.279			Right	0.025	0.061	0.107*	-	0.193
	Left	0.172	-	-	0.337	0.509)		Left	0.175	-	-	0.337	0.512

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dogg 120 of 127
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 129 of 137

Table 12-67
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz
MIMO WLAN (Hotspot at 0.5 cm)

			Arrest are error error					
Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)		
		1	2	3	4	1+2+3+4		
	GPRS 850	0.949	0.218	0.337	0.049	1.553		
	GPRS 1900	0.894	0.218	0.337	0.049	1.498		
	UMTS 850	0.879	0.218	0.337	0.049	1.483		
Hotopot CAD	LTE Band 12	0.408	0.218	0.337	0.049	1.012		
Hotspot SAR	LTE Band 13	0.772	0.218	0.337	0.049	1.376		
	LTE Band 5 (Cell)	0.845	0.218	0.337	0.049	1.449		
	LTE Band 4 (AWS)	0.953	0.218	0.337	0.049	1.557		
	LTE Band 41	0.843	0.218	0.337	0.049	1.447		

12.9 Simultaneous Transmission Conclusion

The above numerical summed SAR results are sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogg 420 of 427	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 130 of 137	

© 2021 PCTEST REV 21.4 M 09/11/2019

13 SAR MEASUREMENT VARIABILITY

13.1 **Measurement Variability**

thereof, please contact INFO@PCTEST.COM.

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 \geq 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	# of Time Slots	Side II	Configuration	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)	(W/kg)		
835	824.20	128	GSM 850	GPRS	3	back	Closed	5 mm	0.949	0.816	1.16	N/A	N/A	N/A	N/A
1750	1732.50	20175	LTE Band 4 (AWS), 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	N/A	bottom	Closed	5 mm	0.852	0.847	1.01	N/A	N/A	N/A	N/A
		Α	NSI / IEEE C95.1 1992 - SAFET	YLIMIT				Body							
	Spatial Peak							1.6 W/kg (mW/g)							
	Uncontrolled Exposure/General Population									ave	eraged o	ver 1 gram			

	FCC ID: A3LSMF711JPN	Proud to be part of ® element	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager				
	Document S/N:	Test Dates:	DUT Type:		Dage 424 of 427				
	1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset		Page 131 of 137				
© 202	2021 PCTEST								

Table 13-2
Phablet SAR Measurement Variability Results

			1 Habiot C	or till inidadi	ai 01110	,,,,,	41 IGO11	,	uito					Thablet OAR measurement variability Results										
	PHABLET VARIABILITY RESULTS																							
Band	FREQU	IENCY	Mode	Service	# of Time Slots	of Time Side Spacing SA		Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio										
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)											
1750	1732.50	20175	LTE Band 4 (AWS), 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	N/A	back	0 mm	2.350	2.340	1.00	N/A	N/A	N/A	N/A										
1900	1909.80	810	GSM 1900	GPRS	3	back	0 mm	2.000	1.970	1.02	N/A	N/A	N/A	N/A										
		1A	NSI / IEEE C95.1 1992 - SAFETY	LIMIT			Phablet																	
	Spatial Peak					4.0 W/kg (mW/g)																		
		Unc	ontrolled Exposure/General Po	pulation					ave	averaged over 10 grams														

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.

FCC ID: A3LSMF711JPN	PCTEST* Froud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	D 400 -f 407	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 132 of 137	

Manufacturer	Model 8594A	Description	Cal Date CBT	Cal Interval N/A	Cal Due CBT	Serial Number 3051A00187
Agilent Agilent	8594A E4438C	(9kHz-2.9GHz) Spectrum Analyzer ESG Vector Signal Generator	12/14/2020	N/A Biennial	12/14/2022	MY42082385
Agilent	E4438C	ESG Vector Signal Generator ESG Vector Signal Generator	8/10/2020	Annual	8/10/2021	MY47270002
Agilent	E4432B	ESG-D Series Signal Generator	2/24/2021	Annual	2/24/2022	US40053896
Agilent	N5182A	MXG Vector Signal Generator	12/1/2020	Annual	12/1/2021	MY47420837
Agilent	8753FS	S-Parameter Network Analyzer	2/2/2020	Annual	2/2/2021	US39170122
Agilent	8753ES	S-Parameter Vector Network Analyzer	12/15/2020	Annual	12/15/2021	MY40003841
Agilent	E5515C	Wireless Communications Test Set	2/4/2021	Annual	2/4/2022	GB43193563
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB44450273
Agilent	N4010A N4010A	Wireless Connectivity Test Set Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	353317
Amplifier Research	1551G6 1551G6	Amplifier	CBT	N/A N/A	CBT	433978
				-		
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881 941001
Anritsu	ML2495A	Power Meter	1/18/2021	Annual	1/18/2022	
Anritsu	ML2496A	Power Meter	3/3/2021	Annual	3/3/2022	1306009
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Anritsu	MA2411B	Pulse Power Sensor	2/5/2021	Annual	2/5/2022	846215
Anritsu	MT8821C	Radio Communication Analyzer	3/23/2021	Annual	3/23/2022	6201144418
Anritsu	MT8821C	Radio Communication Analyzer	2/1/2021	Annual	2/1/2022	6201664756
Anritsu	MT8821C	Radio Communication Analyzer	4/16/2021	Annual	4/16/2022	6200901190
Anritsu	MA24106A	USB Power Sensor	3/2/2021	Annual	3/2/2022	1244524
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1520505
Anritsu	MT8862A	Wireless Connectivity Test Set	10/29/2020	Annual	10/29/2021	6261782395
COMTech	AR85729-5	Solid State Amplifier	CBT	N/A	CBT	M1S5A00-009
COMTECH	AR85729-5/5759B	Solid State Amplifier	CBT	N/A	CBT	M3W1A00-1002
Control Company	4352	Long Stem Thermometer	3/2/2021	Annual	3/2/2022	160508097
Control Company	4352	Long Stem Thermometer	5/16/2020	Biennial	5/16/2022	200294567
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/17/2020	Biennial	2/17/2022	200113269
Control Company	4040	Therm./Clock/Humidity Monitor	3/12/2021	Biennial	3/12/2023	210201956
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	N9020A	MXA Signal Analyzer	2/24/2021	Annual	2/24/2022	MY48010233
Keysight Technologies	N9020A	MXA Signal Analyzer	8/14/2020	Annual	8/14/2021	US46470561
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	9/1/2020	Annual	9/1/2021	MY53401181
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NI P-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A N/A	CBT	N/A 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
Insize	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	409193536
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	1445
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
Rohde & Schwarz	CMU200	Base Station Simulator	5/10/2021	Annual	5/10/2022	109892
Rohde & Schwarz	CMW500	Radio Communication Tester	1/19/2021	Annual	1/19/2022	111427
Rohde & Schwarz	CMW500	Radio Communication Tester	10/16/2020	Annual	10/16/2021	101699
Rohde & Schwarz	ZNLE6	Vector Network Analyzer	9/29/2020	Annual	9/29/2021	101307
SPEAG	D750V3	750 MHz SAR Dipole	3/16/2020	Biennial	3/16/2022	1003
SPEAG	D750V3	750 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	1161
SPEAG	D835V2	835 MHz SAR Dipole	3/13/2019	Triennial	3/13/2022	4d047
SPEAG	D835V2	835 MHz SAR Dipole	1/21/2021	Annual	1/21/2022	
SPEAG	D835V2	835 MHz SAR Dipole				4d132
SPEAG			10/19/2018	Triennial	10/19/2021	4d132 4d133
	D1750V2		10/19/2018 5/12/2020	Triennial Biennial	10/19/2021 5/12/2022	
SPEAG		1750 MHz SAR Dipole	5/12/2020	Biennial	5/12/2022	4d133
SPEAG SPEAG	D1750V2 D1750V2 D1900V2					4d133 1148
	D1750V2	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1900 MHz SAR Dipole	5/12/2020 10/22/2018 10/23/2018	Biennial Triennial	5/12/2022 10/22/2021	4d133 1148 1150
SPEAG SPEAG	D1750V2 D1900V2 D2450V2	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1900 MHz SAR Dipole 2450 MHz SAR Dipole	5/12/2020 10/22/2018 10/23/2018 8/14/2020	Biennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021	4d133 1148 1150 5d149 719
SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1900 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021	Biennial Triennial Triennial Annual Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022	4d133 1148 1150 5d149 719 981
SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2600V2	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1900 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole	5/12/2020 10/22/2018 10/23/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019	Biennial Triennial Triennial Annual Annual Triennial	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022	4d133 1148 1150 5d149 719 981 1064
SPEAG SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1900 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 5 GHz SAR Dipole	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020	Biennial Triennial Triennial Annual Annual Triennial Annual Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 9/10/2021	4d133 1148 1150 5d149 719 981
SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2600V2 D5GH2V2 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1900 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHz SAR Dipole Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021	Biennial Triennial Triennial Annual Annual Triennial Annual Annual Annual Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 9/10/2021 3/18/2022	4d133 1148 1150 5d149 719 981 1064 1191
SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2600V2 D5GH2V2 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1790 MHz SAR Dipole 1900 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 7/15/2020	Biennial Triennial Triennial Annual Annual Triennial Annual Annual Annual Annual Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 9/10/2021 3/18/2022 7/15/2021	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322
SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2600V2 D5GHzV2 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1300 MHz SAR Dipole 1300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 2600 MHz SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 7/15/2020 10/16/2020	Biennial Triennial Triennial Annual Annual Triennial Annual Annual Annual Annual Annual Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 9/10/2021 3/18/2022 7/15/2021 10/16/2021	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333
SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2600V2 D5GH2V2 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole Day Data Acquisition Electronics Day Data Acquisition Electronics Day Data Acquisition Electronics Day Data Acquisition Electronics Day Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 7/15/2020 10/16/2020 6/5/2021	Biennial Triennial Triennial Annual Annual Triennial Annual Annual Annual Annual Annual Annual Annual Annual Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 9/10/2021 3/18/2022 7/15/2021 10/16/2021 6/15/2022	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333 1334
SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2600V2 D5GHzV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 7/15/2020 10/16/2020 6/5/2021 4/7/2021	Biennial Triennial Triennial Annual Annual Triennial Annual	5/12/2022 10/22/2021 10/23/2021 10/23/2021 1/19/2022 6/14/2022 9/10/2021 3/18/2022 7/15/2021 10/16/2021 6/15/2022 4/7/2022	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333 1334
SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2450V2 D5GHzV2 D5GHzV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1900 MHz SAR Dipole 1900 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 2600 MHz SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 10/23/2018 10/23/2018 1/19/2021 6/14/2019 9/10/2020 10/16/2020 10/16/2020 6/5/2021 4/7/2021 3/10/2021	Biennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 8/14/2022 6/14/2022 9/10/2021 3/18/2022 7/15/2021 10/16/2021 4/7/2022 3/10/2022	4d133 1148 1150 5d149 719 981 1064 1191 1272 1332 1333 1334 1407
SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG SPEAG	D1750V2 D1900V2 D1900V2 D2450V2 D2450V2 D2600V2 D5GHzV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1300 MHz SAR Dipole 1300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 560 MHz SAR Dipole 5 GHz SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 10/16/2020 10/16/2020 4/7/2021 4/7/2021 9/10/2020	Biennial Triennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 10/23/2021 1/19/2022 6/14/2022 9/10/2021 3/18/2022 7/15/2021 10/16/2021 6/15/2022 4/7/2022 9/10/2022 9/10/2022	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333 1334 1407
SPEAG SPEAG	D1750V2 D1900V2 D1900V2 D2450V2 D2450V2 D2600V2 D5600V2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 7/15/2020 10/16/2020 6/5/2021 4/7/2021 3/10/2021 3/10/2020 8/11/2020	Biennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 3/18/2022 7/15/2021 10/16/2021 6/15/2022 4/7/2022 3/10/2022 8/11/2021	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333 1407 1415
SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2450V2 D2500V2 D2600V2 D360HV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1300 MHz SAR Dipole 1300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 5 GHZ SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 10/16/2020 6/5/2021 4/7/2021 3/10/2020 9/10/2020 10/16/20 10/16/20	Biennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 10/23/2021 1/19/2022 6/14/2022 9/10/2021 3/18/2022 7/15/2021 10/16/2021 6/15/2022 4/7/2022 3/10/2022 9/10/2021 12/7/2021	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333 1334 1407 1415 1449 1450
SPEAG SPEAG	D1750V2 D190V2 D190V2 D2450V2 D2450V2 D2450V2 D2500V2 D56HtV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2600 MHz SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole 0 Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 7/15/2020 10/16/2020 6/5/2021 4/7/2021 3/10/2021 9/10/2020 8/11/2020 12/7/2020 1/13/2021	Biennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 9/10/2021 3/18/2022 7/15/2021 6/15/2022 4/7/2022 9/10/2021 8/11/2021 12/7/2021	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333 1407 1415 1449 1450 1533 1558
SPEAG SPEAG	D1750V2 D1900V2 D1900V2 D2450V2 D2450V2 D2450V2 D560V2 D560V2 D560V2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1900 MHz SAR Dipole 1900 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 2600 MHz SAR Dipole 5 GHz SAR Dipole 15 GHZ SAR Dipole 16 GHZ SAR Di	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 10/16/2020 6/5/2021 3/10/2021 3/10/2021 8/11/2020 12/7/2020 1/13/2021	Biennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 9/10/2021 3/18/2022 10/16/2021 10/16/2021 10/16/2022 4/7/2022 3/10/2022 9/10/2021 8/11/2021 12/7/2021 12/7/2021 12/7/2022 5/1/2022	4d133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333 1334 1407 1415 1449 1450 1538
SPEAG SPEAG	D1750V2 D1900V2 D1900V2 D2450V2 D2450V2 D2450V2 D2450V2 D3660V2 D3664V2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Disy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 10/16/2020 10/16/2020 4/7/2021 4/7/2021 9/10/2020 8/11/2020 12/7/2020 1/13/2021 5/12/2021	Biennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 9/10/2021 3/18/2022 9/10/2021 10/16/2021 6/15/2022 4/17/2022 3/10/2021 12/7/2021 12/7/2021 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022	4d133 1148 1150 5d149 719 981 1064 1191 1272 1332 1333 1407 1415 1449 1450 1533 1558
SPEAG SPEAG	D1750V2 D190V2 D190V2 D245VV2 D245VV2 D245VV2 D245VV2 D250VV2 D56HVV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5600 MHz SAR Dipole 5604 SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dielectric Assessment Kit Dielectric Assessment Kit SAR Probe	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 9/10/2020 9/10/2020 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021	Biennial Triennial Triennial Annual	\$/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 6/14/2022 7/15/2021 10/16/2021 4/7/2022 4/7/2022 3/10/2022 5/10/2022 5/10/2021 8/11/2021 10/14/2021 10/14/2021	40133 1148 1150 56149 791 1961 1272 1323 1334 1407 1415 1449 1450 1533 1538 1070 1091
SPEAG SPEAG	D1750V2 D1900V2 D1900V2 D2450V2 D2450V2 D2450V2 D2450V2 D3660V2 D3664V2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Disy Data Acquisition Electronics	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 10/16/2020 10/16/2020 4/7/2021 4/7/2021 9/10/2020 8/11/2020 12/7/2020 1/13/2021 5/12/2021	Biennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 9/10/2021 3/18/2022 9/10/2021 10/16/2021 6/15/2022 4/17/2022 3/10/2021 12/7/2021 12/7/2021 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022 1/3/2022	4d133 1148 1150 5d149 719 981 1064 1191 1272 1332 1333 1407 1415 1449 1450 1533 1538
SPEAG SPEAG	D1750V2 D190V2 D190V2 D245VV2 D245VV2 D245VV2 D245VV2 D250VV2 D56HVV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5600 MHz SAR Dipole 5604 SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dielectric Assessment Kit Dielectric Assessment Kit SAR Probe	5/12/2020 10/22/2018 10/23/2018 8/14/2020 1/19/2021 9/10/2020 9/10/2020 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021 1/18/2021	Biennial Triennial Triennial Annual	\$/12/2022 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 6/14/2022 7/15/2021 10/16/2021 4/7/2022 4/7/2022 3/10/2022 5/10/2022 5/10/2021 8/11/2021 10/14/2021 10/14/2021	40133 1148 1150 56149 791 1961 1272 1323 1334 1407 1415 1449 1450 1533 1538 1070 1091
SPEAG SPEAG	D1750V2 D1900V2 D1900V2 D2450V2 D2450V2 D2450V2 D2500V2 D56HV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1300 MHz SAR Dipole 1300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 560 MHz SAR Dipole 5 GHz SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dielectric Assessment Kit Dielectric Assessment Kit SAR Probe SAR Probe	5/12/2020 10/22/2018 10/23/2018 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 10/15/2020 10/15/2020 11/7/2020 11/7/2020 11/7/2020 11/7/2020 11/16/2020 11/16/2020	Biennial Triennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/22/2021 10/23/2051 8/14/2031 1/19/2002 6/14/2032 6/14/2032 6/14/2032 7/15/2031 10/15/2031 10/15/2031 10/15/2031 11/17/2031	46133 1148 1150 56149 719 981 1064 1191 1272 1332 1333 1407 1415 1449 1450 1533 1558 1070 1091 3369 7368
SPEAG SPEAG	D1750V2 D190V2 D2450V2 D2450V2 D2450V2 D2450V2 D2450V2 D2500V2 D56HV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1800 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquis	5/12/2020 10/22/203 10/23/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 1/15/2020 10/15/2020 10/15/2020 10/15/2020 12/7/2020 12/7/2020 12/7/2020 12/7/2020 12/7/2020 12/7/2020 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021 1/13/2021	Biennial Triennial Triennial Triennial Annual	5/12/2022 10/22/2021 10/22/2021 10/23/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 6/14/2022 7/15/2021 10/16/2021 10/16/2021 10/16/2021 11/2022 11/2021 11/3/2022 11/3/2022 10/14/2021 11/3/2022 10/14/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021 11/3/2021	46133 1148 1150 5d149 719 981 1064 1191 1272 1322 1333 1407 1415 1449 1450 1533 1558 1070 1091 1091
SPEAG SPEAG	D1750V2 D1900V2 D1900V2 D2450V2 D2450V2 D2450V2 D2500V2 D56HV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHz SAR Dipole 5 GHz SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dielectric Assessment Kit Dielectric Assessment Kit SAR Probe SAR Probe SAR Probe	\$/12/2020 10/22/2018 10/22/2018 10/22/2018 8/14/2020 1/14/2020 1/14/2020 3/18/2021 7/15/2020 3/18/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021 3/10/2021	Biennial Triennial Triennial Triennial Annual	\$/12/2022 10/22/2021 10/22/2021 10/23/2021 8/14/2021 1/19/2022 6/14/2022 9/10/2021 7/15/2021 10/16/2021 4/7/2022 9/10/2021 1/16/2021 1/1	4d133 1148 1150 5d149 719 981 1101 1272 1322 1333 1407 1407 1445 1450 1558 1070 1091 1091 1329 1331 1407 1415 1533 1558
SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2450V2 D2450V2 D2500V2 D56HVX DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1300 MHz SAR Dipole 1300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Diselectric Assessment Kit Diselectric Assessment Kit SAR Probe SAR Probe SAR Probe SAR Probe SAR Probe	\$/12/2020 10/22/2018 10/22/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 7/15/2020 10/16/2020 8/11/2020 10/16/2020 8/11/2020 11/7/2020	Biennial Triennial Triennial Annual	\$/12/2022 10/22/2021 10/22/2021 10/22/2021 10/22/2021 10/22/2021 10/22/2021 1/19/2022 6/14/2022 9/10/2021 10/16/2021 6/15/2022 4/7/2022 4/7/2022 4/7/2022 4/7/2022 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021	46133 1148 1150 56149 719 981 1105 1127 1322 1333 1407 1415 1449 1450 1533 1558 1070 1091 1357 7308 7357 7409 7410
SPEAG SPEAG	D1750V2 D1900V2 D2450V2 D2450V2 D2450V2 D2450V2 D2450V2 D2500V2 D56HVX DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole 1300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Diselectric Assessment Kit Dielectric Assessment Kit Dielectric Assessment Kit SAR Probe SAR Probe SAR Probe SAR Probe SAR Probe SAR Probe	\$/12/2020 10/22/2018 10/22/2018 10/22/2018 8/14/2020 1/19/2021 6/14/2019 9/10/2020 3/18/2021 10/16/2020 10/16/2020 10/16/2020 1/17/2021 3/10/2021 1/17/2021	Biennial Triennial Triennial Annual	\$/12/2002 10/22/2021 10/23/2021 10/23/2021 8/14/2021 1/19/2002 6/14/2002 9/10/2001 10/16/2021 6/15/2002 4/17/2002 3/10/2002 3/10/2002 3/10/2002 3/10/2002 1/13/2002	46133 1148 1150 56149 719 981 1191 1272 1333 1407 1415 1449 1450 1558 1070 1091 1588 1758 1758 1758 1758 1758 1758 175
SPEAG SPEAG	D1750V2 D1900V2 D1900V2 D2450V2 D2450V2 D2450V2 D2500V2 D56HVV2 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4 DAE4	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1300 MHz SAR Dipole 1300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole 2500 MHz SAR Dipole 5 GHZ SAR Dipole 5 GHZ SAR Dipole Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Diselectric Assessment Kit Diselectric Assessment Kit SAR Probe SAR Probe SAR Probe SAR Probe SAR Probe	\$/12/2020 \$/12/2020 \$10/23/2018 \$10/23/2018 \$10/23/2018 \$10/23/2018 \$14/2020 \$14/2020 \$14/2020 \$14/2020 \$18/2020 \$18/2020 \$1/2	Biennial Tiennial Triennial Triennial Annual	\$/12/2022 10/22/2021 10/22/2021 10/22/2021 10/22/2021 10/22/2021 10/22/2021 1/19/2022 6/14/2022 9/10/2021 10/16/2021 6/15/2022 4/7/2022 4/7/2022 4/7/2022 4/7/2022 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 10/16/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021 1/20/2021	46133 1148 1150 56149 719 981 1105 1127 1322 1333 1407 1415 1449 1450 1533 1558 1070 1091 1357 7308 7357 7409 7410

Notes:

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

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of the element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Dage 422 of 427
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 133 of 137

© 2021 PCTEST

REV 21.4 M 09/11/2019

а	b	С	d	e=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x q/e	
	IEEE	Tol.	Prob.	(, ,	Ci	Ci	1gm	10gms	
Uncertainty Component	1528	(± %)	Dist.	Div.	1gm	10 gms	u _i	u _i	Vi
	Sec.	(± 70)	Dist.	DIV.	igiii	TO gills	(± %)	(± %)	V
Measurement System				I			(= 13)	(=)	
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	Ν	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	Ν	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	Ν	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	8
Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	8
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	8
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	Ν	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters				_					
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	Ν	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	Ν	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS	l		1	12.2	12.0	191
Expanded Uncertainty			k=2				24.4	24.0	
(95% CONFIDENCE LEVEL)									

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

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	D 404 407	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 134 of 137	

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]

	FCC ID: A3LSMF711JPN	Proud to be part of ® element	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager				
	Document S/N:	Test Dates:	DUT Type:		Page 135 of 137				
	1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page					
© 202	021 PCTEST								

09/11/2019
© 2021 PCTEST All rights reserved. Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying an microfilm, without permission in writing from PCTEST. If you have any questions about this international copyright or have an enquiry about obtaining additional rights to this report or assembly of content thereof, please contact INFO@PCTEST.COM.

17 REFERENCES

- [1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.
- [2] ANSI/IEEE C95.1-2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, 2006.
- [3] ANSI/IEEE C95.1-1992, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, Sept. 1992.
- [4] ANSI/IEEE C95.3-2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields RF and Microwave, New York: IEEE, December 2002.
- [5] IEEE Standards Coordinating Committee 39 Standards Coordinating Committee 34 IEEE Std. 1528-2013, IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.
- [6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for RadioFrequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.
- [7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.
- [8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 1 -124.
- [9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.
- [10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.
- [11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.
- [12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.
- [13] G. Hartsgrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectromagnetics, Canada: 1987, pp. 29-36.
- [14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.
- [15] W. Gander, Computermathematick, Birkhaeuser, Basel, 1992.
- [16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recipes in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.
- [17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

FCC ID: A3LSMF711JPN	Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager
Document S/N:	Test Dates:	DUT Type:	Page 136 of 137
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Fage 136 01 137

© 2021 PCTEST REV 21.4 M 09/11/2019

- [18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz, Jan. 1995.
- [19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hoschschule Zürich, Dosimetric Evaluation of the Cellular Phone.
- [20] IEC 62209-1, Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz), July 2016.
- [21] Innovation, Science, Economic Development Canada RSS-102 Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Issue 5, March 2015.
- [22] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz 300 GHz, 2015
- [23] FCC SAR Test Procedures for 2G-3G Devices, Mobile Hotspot and UMPC Devices KDB Publications 941225, D01-D07
- [24] SAR Measurement Guidance for IEEE 802.11 Transmitters, KDB Publication 248227 D01
- [25] FCC SAR Considerations for Handsets with Multiple Transmitters and Antennas, KDB Publications 648474 D03-D04
- [26] FCC SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers, FCC KDB Publication 616217 D04
- [27] FCC SAR Measurement and Reporting Requirements for 100MHz 6 GHz, KDB Publications 865664 D01-D02
- [28] FCC General RF Exposure Guidance and SAR Procedures for Dongles, KDB Publication 447498, D01-D02
- [29] Anexo à Resolução No. 533, de 10 de Septembro de 2009.
- [30] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), Mar. 2010.

FCC ID: A3LSMF711JPN	PCTEST* Proud to be part of @ element	SAR EVALUATION REPORT	Approved by: Quality Manager	
Document S/N:	Test Dates:	DUT Type:	Dogo 127 of 127	
1M2106100066-01.A3L (Rev 1)	06/28/2021 - 07/31/2021	Portable Handset	Page 137 of 137	