



RF Exposure Part 1 Test Report

Applicant Name:
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052 USA

Date of Testing:
05/18/2026 – 07/06/2026
Test Site/Location:
Element, Columbia, MD, USA
Document Serial No.:
1M2606300059-01.C3K (Rev1)

FCC ID: C3K2114

APPLICANT: MICROSOFT CORPORATION

DUT Type: Wireless Module
Application Type: Class II Permissive Change – Limited Modular Approval
FCC Rule Part(s): CFR §2.1093
Model(s): 2114
Host Device Model Name: 2150
Host Device FCC ID: C3K2150
Permissive Change(s): FCC C2PC Cover Letter for 2150

Equipment Class	Band & Mode	Tx Frequency	SAR	
			DSI=3* 1g SAR (W/kg)	DSI=36 1g SAR (W/kg)
PCE	UMTS 800	826.40 - 846.60 MHz	<0.1	0.78
PCE	UMTS 1750	1712.4 - 1752.6 MHz	<0.1	0.51
PCE	UMTS 1900	1852.4 - 1907.6 MHz	<0.1	0.58
PCE	LTE Band 71	665.5 - 695.5 MHz	<0.1	0.41
PCE	LTE Band 12	698.7 - 715.3 MHz	<0.1	0.44
PCE	LTE Band 13	779.5 - 784.5 MHz	<0.1	0.44
PCE	LTE Band 14	760.5 - 785.5 MHz	<0.1	0.48
PCE	LTE Band 26	814.7 - 846.3 MHz	<0.1	0.55
PCE	LTE Band 5	824.7 - 846.3 MHz	<0.1	0.62
PCE	LTE Band 66	1710.7 - 1779.3 MHz	<0.1	0.57
PCE	LTE Band 4	1710.7 - 1754.3 MHz	N/A	N/A
PCE	LTE Band 25	1850.7 - 1914.3 MHz	<0.1	0.51
PCE	LTE Band 2	1850.7 - 1909.3 MHz	0.12	0.46
PCE	LTE Band 30	2307.5 - 2312.5 MHz	<0.1	0.68
PCE	LTE Band 41	2486.5 - 2687.5 MHz	<0.1	0.66
PCE	LTE Band 48	3522.5 - 3697.5 MHz	<0.1	0.82
PCE	NR Band n71	665.5 - 695.5 MHz	<0.1	0.60
PCE	NR Band n12	701.5 - 713.5 MHz	<0.1	0.57
PCE	NR Band n14	760.5 - 785.5 MHz	<0.1	0.62
PCE	NR Band n26	816.5 - 846.5 MHz	<0.1	0.69
PCE	NR Band n5	826.5 - 846.5 MHz	<0.1	0.79
PCE	NR Band n66	1712.5 - 1777.5 MHz	<0.1	0.84
PCE	NR Band n65	1852.5 - 1912.5 MHz	<0.1	0.81
PCE	NR Band n2	1852.5 - 1907.5 MHz	N/A	N/A
PCE	NR Band n30	2307.5 - 2312.5 MHz	<0.1	0.62
PCE	NR Band n41	2501.01 - 2686 MHz	<0.1	0.88
PCE	NR Band n48	3555 - 3694.98 MHz	<0.1	0.73
PCE	NR Band n77	3456.01 - 3544.98 MHz; 3705 - 3975 MHz	1.18	1.02
Simultaneous SAR per KDB 600783 D01v0103:			1.22	1.58

Note: DSI=3* refers to DSI=3 with Keyboard attached at <210deg.

Note, this report documents the RF exposure evaluation performed for the integration of FCC ID C3K2114 into a host device FCC ID C3K2150. Only the RF exposure conditions and operating configurations associated with this host integration were evaluated under this filing. All other transmitter characteristics and operating modes remain unchanged from the previously authorized module approval.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 2.8 of this report; for North American frequency bands only.

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

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.



R.J. Ortanez
VP - Connected Technologies



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

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Revision	Description	Issue Date	Revised By
-	Initial Release	07/13/2026	WKR017811
Rev1	Updated per TCB comments	07/15/2026	WKR017811

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1 TEST LABORATORY INFORMATION

1.1 Introduction

This test report for device subject to testing at an accredited testing laboratory has been generated by the testing laboratory that tested the device. Detailed location and accredited information regarding the testing laboratories are provided below.

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

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

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2 DEVICE UNDER TEST

2.1 Equipment Description

The equipment under test (EUT), Model 2150, is a portable computing device that incorporates two previously certified transmitter modules and host NFC components.

The integrated transmitter modules consist of the WLAN/Bluetooth module authorized under FCC ID C3K00002101 (Module Model: HWB-Q94) and the cellular module authorized under FCC ID C3K2114 (Module Model: 2114). No hardware or software modifications have been made to either certified module for this host integration.

This report documents the FCC RF exposure compliance evaluation of the WWAN transmitter module (FCC ID C3K2114) as integrated into host device FCC ID C3K2150. While the transmitter characteristics remain unchanged from the authorized module approval, RF exposure compliance depends upon the final host implementation and is therefore demonstrated for the applicable FCC compliance separation distances for this specific host configuration.

This report presents the operating configurations selected for formal FCC SAR compliance evaluation. The evaluated configurations were selected using the 0 mm SAR reference dataset documented in Appendix I. The reference dataset was established through complete SAR measurements performed in accordance with the FCC OET response documented in KDB Inquiry No. 332459 and provides the technical basis for the approved SAR test reduction methodology applied to this device.

Co-location and simultaneous transmission conditions involving the integrated transmitter modules are evaluated separately in the host device RF Exposure Report (Report No. 1M2603250028-01.C3K).

2.2 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26	Voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz 3705 - 3975 MHz

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2.3 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® Smart Transmit feature for 2G/3G/4G/5G modes. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 2.10 – Bibliography).

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit (i.e., P_{limit} for WWAN), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN found in Section 2.10 - Bibliography).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . The below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this DUT for various transmit conditions (Device State Index DSI).

This device operates using two different DSIs, each corresponding to a different RF output power level. Throughout this report, DSI 3 represents the No Motion operating condition (high-power test cases), while DSI 6 represents the Motion operating condition (low-power test cases).

Exposure Scenario		Maximum Tune-Up Output Power*	Body No Motion	Body Motion
			1g	1g
			0, 25mm	5mm
			3	6
Technology/Band	Antenna	P _{max}	P _{limit}	P _{limit}
UMTS 850	2	24.0	26.9	18.8
UMTS 1750	6	24.0	31.2	17.2
UMTS 1900	6	24.0	31.0	16.7
LTE Band 71	2	24.0	38.7	18.0
LTE Band 12	2	24.0	27.6	18.5
LTE Band 13	2	24.0	27.1	18.5
LTE Band 14	2	24.0	34.0	18.5
LTE Band 5	2	24.0	26.1	18.8
LTE Band 26	2	24.0	33.3	18.8
LTE Band 66/4	6	24.5	29.7	17.2
LTE Band 2	6	24.5	30.0	16.7
LTE Band 25	6	24.5	29.8	16.7
LTE Band 30	6	21.0	27.8	15.7
LTE Band 41 PC2	6	22.4	28.7	15.0
LTE Band 41 PC3	6	22.5	28.7	15.0
LTE Band 48	1	18.0	30.0	12.7
LTE Band 48	6	18.0	31.9	13.0
NR Band n71	2	24.0	27.3	18.0
NR Band n12	2	24.0	28.5	18.5
NR Band n14	2	24.0	32.9	18.5
NR Band n5	2	24.0	27.5	18.8
NR Band n26	2	24.0	28.8	18.8
NR Band n66	6	24.5	29.9	17.2
NR Band n25/n2	6	24.5	29.3	16.7
NR Band n30	6	21.0	27.4	15.7
NR Band n41 PC2	1	26.0	28.9	15.0
NR Band n41 PC3	1	24.5	28.9	15.0
NR Band n41 PC2	6	26.0	28.5	15.0
NR Band n41 PC3	6	24.5	28.5	15.0
NR Band n48 PC3	1	20.0	26.5	12.7
NR Band n48 PC3	6	20.0	31.4	13.0
NR Band n48 PC3	7	18.0	27.7	13.0
NR Band n48 PC3	8	18.0	28.3	13.0
NR Band n77 PC2	1	26.0	26.9	11.8
NR Band n77 PC3	1	24.0	26.9	11.8
NR Band n77 PC2	6	26.0	29.0	13.2
NR Band n77 PC3	6	24.0	29.0	13.2
NR Band n77 PC2	7	26.0	26.2	13.0
NR Band n77 PC3	7	24.0	26.2	13.0
NR Band n77 PC2	8	24.0	26.0	13.0
NR Band n77 PC3	8	23.0	26.0	13.0
NR Band n41 PC1.5 UL-MIMO	1	26.0	28.9	15.0
NR Band n41 PC1.5 UL-MIMO	6	26.0	28.5	15.0
NR Band n48 PC3 UL-MIMO	1	17.0	26.5	12.7
NR Band n48 PC3 UL-MIMO	6	17.0	31.4	13.0
NR Band n77 PC1.5 UL-MIMO	1	26.0	26.9	11.8
NR Band n77 PC1.5 UL-MIMO	6	26.0	29.0	13.2

Notes:

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1. All P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (e.g. LTE TDD).
2. *Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.
3. The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and DSI = minimum of " P_{limit} EFS" and "Maximum tune up output power P_{max} " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.
4. The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

2.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

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2.4.1 Licensed Output Power

UMTS Band 5 (850 MHz)					
Antenna 2					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 3 (No Motion)	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 6 (Motion)	Max Allowed Power	19.8	19.8	19.8	19.8
	Nominal	18.8	18.8	18.8	18.8
UMTS Band 4 (1750 MHz)					
Antenna 6					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 3 (No Motion)	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 6 (Motion)	Max Allowed Power	18.2	18.2	18.2	18.2
	Nominal	17.2	17.2	17.2	17.2
UMTS Band 2 (1900 MHz)					
Antenna 6					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 3 (No Motion)	Max Allowed Power	25.0	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0	24.0
DSI = 6 (Motion)	Max Allowed Power	17.7	17.7	17.7	17.7
	Nominal	16.7	16.7	16.7	16.7

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 3 (No Motion)	DSI = 6 (Motion)
LTE Band 71	2	Max Allowed Power	25.0	25.0	19.0
		Nominal	24.0	24.0	18.0
LTE Band 12	2	Max Allowed Power	25.0	25.0	19.5
		Nominal	24.0	24.0	18.5
LTE Band 13	2	Max Allowed Power	25.0	25.0	19.5
		Nominal	24.0	24.0	18.5
LTE Band 14	2	Max Allowed Power	25.0	25.0	19.5
		Nominal	24.0	24.0	18.5
LTE Band 26/5	2	Max Allowed Power	25.0	25.0	19.8
		Nominal	24.0	24.0	18.8
LTE Band 66/4	6	Max Allowed Power	25.5	25.5	18.2
		Nominal	24.5	24.5	17.2
LTE Band 25/2	6	Max Allowed Power	25.5	25.5	17.7
		Nominal	24.5	24.5	16.7
LTE Band 30	6	Max Allowed Power	22.0	22.0	16.7
		Nominal	21.0	21.0	15.7
LTE Band 41 PC3	6	Max Allowed Power	25.5	25.5	18.0
		Nominal	24.5	24.5	17.0
LTE Band 41 PC2	6	Max Allowed Power	27.0	27.0	19.6
		Nominal	26.0	26.0	18.6
LTE Band 48	1	Max Allowed Power	21.0	21.0	15.7
		Nominal	20.0	20.0	14.7
LTE Band 48	6	Max Allowed Power	21.0	21.0	16.0
		Nominal	20.0	20.0	15.0

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

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 3 (No Motion)	DSI = 6 (Motion)
NR Band n71	2	Max Allowed Power	25.0	25.0	19.0
		Nominal	24.0	24.0	18.0
NR Band n12	2	Max Allowed Power	25.0	25.0	19.5
		Nominal	24.0	24.0	18.5
NR Band n14	2	Max Allowed Power	25.0	25.0	19.5
		Nominal	24.0	24.0	18.5
NR Band n26/n5	2	Max Allowed Power	25.0	25.0	19.8
		Nominal	24.0	24.0	18.8
NR Band n66	6	Max Allowed Power	25.5	25.5	18.2
		Nominal	24.5	24.5	17.2
NR Band n25/n2	6	Max Allowed Power	25.5	25.5	17.7
		Nominal	24.5	24.5	16.7
NR Band n30	6	Max Allowed Power	22.0	22.0	16.7
		Nominal	21.0	21.0	15.7
NR Band n41 PC3	1	Max Allowed Power	25.5	25.5	16.0
		Nominal	24.5	24.5	15.0
NR Band n41 PC3	6	Max Allowed Power	25.5	25.5	16.0
		Nominal	24.5	24.5	15.0
NR Band n41 PC2	1	Max Allowed Power	27.0	27.0	16.0
		Nominal	26.0	26.0	15.0
NR Band n41 PC2	6	Max Allowed Power	27.0	27.0	16.0
		Nominal	26.0	26.0	15.0
NR Band n41 PC1.5 UL-MIMO	1	Max Allowed Power	27.0	27.0	16.0
		Nominal	26.0	26.0	15.0
NR Band n41 PC1.5 UL-MIMO	6	Max Allowed Power	27.0	27.0	16.0
		Nominal	26.0	26.0	15.0
NR Band n48	1	Max Allowed Power	21.0	21.0	13.7
		Nominal	20.0	20.0	12.7
NR Band n48	6	Max Allowed Power	21.0	21.0	14.0
		Nominal	20.0	20.0	13.0
NR Band n48	7	Max Allowed Power	19.0	19.0	14.0
		Nominal	18.0	18.0	13.0
NR Band n48	8	Max Allowed Power	19.0	19.0	14.0
		Nominal	18.0	18.0	13.0
NR Band n48 PC3 UL-MIMO	1	Max Allowed Power	18.0	18.0	13.7
		Nominal	17.0	17.0	12.7
NR Band n48 PC3 UL-MIMO	6	Max Allowed Power	18.0	18.0	14.0
		Nominal	17.0	17.0	13.0
NR Band n77 PC2	1	Max Allowed Power	27.0	27.0	12.8
		Nominal	26.0	26.0	11.8
NR Band n77 PC2	6	Max Allowed Power	27.0	27.0	14.2
		Nominal	26.0	26.0	13.2
NR Band n77 PC2	7	Max Allowed Power	27.0	27.0	14.0
		Nominal	26.0	26.0	13.0
NR Band n77 PC2	8	Max Allowed Power	25.0	25.0	14.0
		Nominal	24.0	24.0	13.0
NR Band n77 PC1.5 UL-MIMO	1	Max Allowed Power	27.0	27.0	12.8
		Nominal	26.0	26.0	11.8
NR Band n77 PC1.5 UL-MIMO	6	Max Allowed Power	27.0	27.0	14.2
		Nominal	26.0	26.0	13.2

For NR TDD, the above powers listed are TDD burst average values

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2.5 DUT Antenna Locations

The overall dimensions of this device are > 200 mm. A diagram showing the location of the device antennas can be found in the DUT Antenna Diagram and SAR Test Setup Photographs Appendix. Exact dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Table 2-1
Device Edges/Sides for SAR Testing for DSI = 3/6 with no Keyboard or Keyboard attached at >210deg

Antenna	Back	Front	Top	Bottom	Right	Left
1	Yes	No	Yes	No	Yes	No
2	Yes	No	Yes	No	Yes	No
6	Yes	No	Yes	No	No	Yes
7	Yes	No	No	Yes	No	Yes
8	Yes	No	No	Yes	Yes	No

Notes:

1. At DSI = 0 (Laptop Mode with keyboard attached), bottom-edge testing is required for all antennas in accordance with FCC KDB 616217 D04.
2. Per FCC KDB Publication 616217 D04v01r01, particular edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D04v01. Additional edges may have been evaluated for simultaneous transmission analysis.

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2.6 Simultaneous Transmission Capabilities

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

This device contains multiple transmitters that may operate simultaneously and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 4.3.2 procedures.

**Table 2-2
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Body
1	2.4 GHz WLAN MIMO	Yes
2	5 GHz WLAN MIMO	Yes
3	6 GHz WLAN MIMO	Yes
4	2.4 GHz Bluetooth Beam Forming	Yes
5	2.4 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
6	2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1	Yes
7	5 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
8	6 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
9	2.4 GHz Bluetooth Chain 0 + 5 GHz WLAN Chain 1	Yes
10	2.4 GHz Bluetooth Chain 0 + 6 GHz WLAN Chain 1	Yes
11	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 0	Yes
12	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 0	Yes
13	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 1	Yes
14	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 1	Yes
15	2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes
16	2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes
17	5 GHz WLAN MIMO + 2.4 GHz WLAN Chain 0	Yes
18	6 GHz WLAN MIMO + 2.4 GHz WLAN Chain 0	Yes
19	5 GHz WLAN MIMO + 2.4 GHz WLAN Chain 1	Yes
20	6 GHz WLAN MIMO + 2.4 GHz WLAN Chain 1	Yes
21	2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1 + 5 GHz WLAN Chain 1	Yes
22	2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1 + 6 GHz WLAN Chain 1	Yes
23	2.4 GHz WLAN Chain 0 + 5 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
24	2.4 GHz WLAN Chain 0 + 6 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
25	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1	Yes
26	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1	Yes
27	5 GHz WLAN MIMO + 2.4 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
28	6 GHz WLAN MIMO + 2.4 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
29	2.4 GHz WLAN Chain 0 + 5 GHz WLAN Chain 1	Yes
30	2.4 GHz WLAN Chain 0 + 6 GHz WLAN Chain 1	Yes
31	5 GHz WLAN Chain 0 + 2.4 GHz WLAN Chain 1	Yes
32	6 GHz WLAN Chain 0 + 2.4 GHz WLAN Chain 1	Yes
33	5 GHz WLAN Chain 1 + 2.4 GHz Bluetooth Chain 1	Yes
34	6 GHz WLAN Chain 1 + 2.4 GHz Bluetooth Chain 1	Yes
35	5 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 0	Yes
36	6 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 0	Yes
37	2.4 GHz WLAN MIMO + 5 GHz WLAN Chain 0	Yes
38	2.4 GHz WLAN MIMO + 6 GHz WLAN Chain 0	Yes
39	2.4 GHz WLAN MIMO + 5 GHz WLAN Chain 1	Yes
40	2.4 GHz WLAN MIMO + 6 GHz WLAN Chain 1	Yes
41	2.4 GHz WLAN Chain 1 + 5 GHz WLAN Chain 1	Yes
42	2.4 GHz WLAN Chain 1 + 6 GHz WLAN Chain 1	Yes
43	2.4 GHz WLAN Chain 0 + 5 GHz WLAN Chain 0	Yes
44	2.4 GHz WLAN Chain 0 + 6 GHz WLAN Chain 0	Yes
45	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Beam Forming	Yes
46	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Beam Forming	Yes
47	2.4 GHz WLAN Chain 0 + WWAN	Yes
48	2.4 GHz WLAN Chain 1 + WWAN	Yes
49	2.4 GHz WLAN MIMO + WWAN	Yes
50	2.4 GHz Bluetooth Chain 0 + WWAN	Yes
51	2.4 GHz Bluetooth Chain 1 + WWAN	Yes
52	5 GHz WLAN Chain 0 + WWAN	Yes
53	5 GHz WLAN Chain 1 + WWAN	Yes
54	5 GHz WLAN MIMO + WWAN	Yes
55	6 GHz WLAN Chain 0 + WWAN	Yes
56	6 GHz WLAN Chain 1 + WWAN	Yes
57	6 GHz WLAN MIMO + WWAN	Yes
58	LTE + NR	Yes

- 2.4 GHz WLAN Antenna 3 and 2.4 GHz Bluetooth Ant 3 share the same antenna path and cannot transmit simultaneously.
- 2.4 GHz WLAN Antenna 4 and 2.4 GHz Bluetooth Ant 4 share the same antenna path and cannot transmit simultaneously.
- 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.
- This device supports 2x2 MIMO Tx for WLAN 802.11b/a/g/n/ac/ax/be. 802.11b/a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
- This device supports Bluetooth Tethering.
- For simultaneous scenarios 1-46, these WLAN simultaneous TX modes can also transmit simultaneously with WWAN and the NFC Antenna and/or WPT Coil.
- For simultaneous scenarios 1-58, these WLAN simultaneous TX modes can also transmit simultaneously with the NFC Antenna and/or WPT Coil.

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2.7 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02
- FCC KDB 648474 D04 (Accessories)
- IEC/IEEE 63195-1:2022
- IEC 62479:2010
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax/be)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)

2.8 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.

2.9 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1M2606300059-02.C3K
RF Exposure Part 2 Test Report	1M2606300059-03.C3K
RF Exposure Compliance Summary Report	1M2606300059-04.C3K
RF Exposure Part 1 Test Report (Host Model)	1M2603250028-01.C3K
RF Exposure Part 1 Test Report (Unlicensed Module)	1M2606300058-01.C3K

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3 LTE AND NR INFORMATION

LTE Information					
Frequency Range of each LTE transmission band	LTE Band 71: 665.5 - 695.5 MHz				
	LTE Band 12: 699.7 - 715.3 MHz				
	LTE Band 13: 779.5 - 784.5 MHz				
	LTE Band 14: 790.5 - 795.5 MHz				
	LTE Band 26: 814.7 - 848.3 MHz				
	LTE Band 5: 824.7 - 848.3 MHz				
	LTE Band 66: 1710.7 - 1779.3 MHz				
	LTE Band 4: 1710.7 - 1754.3 MHz				
	LTE Band 25: 1850.7 - 1914.3 MHz				
	LTE Band 2: 1850.7 - 1909.3 MHz				
	LTE Band 30: 2307.5 - 2312.5 MHz				
	LTE Band 41: 2498.5 - 2687.5 MHz				
	LTE Band 48: 3552.5 - 3697.5 MHz				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)		695.5 (133447)
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)		693 (133422)
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)		690.5 (133397)
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)		688 (133372)
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)		715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)		714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)		713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)		711 (23130)
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz	(N/A)		782 (23230)		(N/A)
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)		795.5 (23355)
LTE Band 14: 10 MHz	(N/A)		793 (23330)		(N/A)
LTE Band 26: 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26: 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26: 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26: 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 26: 15 MHz	821.5 (26765)		831.5 (26865)		841.5 (26965)
LTE Band 5: 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5: 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5: 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5: 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66: 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66: 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66: 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66: 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66: 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66: 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4: 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)
LTE Band 4: 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4: 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4: 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4: 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4: 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 25: 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)
LTE Band 25: 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25: 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25: 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25: 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25: 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 2: 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2: 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2: 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2: 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2: 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2: 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 30: 5 MHz	2307.5 (27685)		2310 (27710)		2312.5 (27735)
LTE Band 30: 10 MHz	(N/A)		2310 (27710)		(N/A)
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)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	(N/A)	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	(N/A)	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	(N/A)	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	(N/A)	3646.7 (56207)	3690 (56640)
UE Category	UL CAT18, DL CAT19				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 15. It supports carrier aggregation, downlink MIMO features. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 15 Features are not supported: Relay, HetNet, Enhanced MIMO, eCIC, eMBMS, Wifi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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Form Factor		NR Information			
Frequency Range of each NR transmission band		Tablet			
		NR Band n71: 665.5 - 695.5 MHz			
		NR Band n12: 701.5 - 713.5 MHz			
		NR Band n14: 790.5 - 795.5 MHz			
		NR Band n26: 816.5 - 846.5 MHz			
		NR Band n5: 826.5 - 846.5 MHz			
		NR Band n66: 1712.5 - 1777.5 MHz			
		NR Band n25: 1852.5 - 1912.5 MHz			
		NR Band n2: 1852.5 - 1907.5 MHz			
		NR Band n20: 2307.5 - 2312.5 MHz			
		NR Band n41: 2501.01 - 2585 MHz			
		NR Band n48: 3555 - 3694.98 MHz			
		NR Band n77: 3455.01 - 3544.98 MHz; 3705 - 3975 MHz			
		NR Band n71: 5 MHz; 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 35 MHz; 40 MHz; 45 MHz			
		NR Band n12: 5 MHz; 10 MHz; 15 MHz; 20 MHz			
Channel Bandwidths		NR Band n14: 5 MHz; 10 MHz			
		NR Band n26: 5 MHz; 10 MHz; 15 MHz; 20 MHz			
		NR Band n66: 5 MHz; 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 35 MHz; 40 MHz; 45 MHz			
		NR Band n25: 5 MHz; 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 35 MHz; 40 MHz			
		NR Band n2: 5 MHz; 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 35 MHz; 40 MHz			
		NR Band n41: 10 MHz; 15 MHz; 20 MHz; 30 MHz; 40 MHz; 45 MHz; 60 MHz; 70 MHz; 80 MHz; 90 MHz; 100 MHz			
		NR Band n48: 10 MHz; 15 MHz; 20 MHz; 30 MHz; 40 MHz			
		NR Band n77: 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 40 MHz; 50 MHz; 60 MHz; 70 MHz; 80 MHz; 90 MHz; 100 MHz			
Channel Numbers and Frequencies (MHz)		NR Band n71: 5 MHz			
		NR Band n71: 10 MHz			
		NR Band n71: 15 MHz			
		NR Band n71: 20 MHz			
		NR Band n71: 25 MHz			
		NR Band n71: 30 MHz			
		NR Band n71: 35 MHz			
		NR Band n12: 5 MHz			
		NR Band n12: 10 MHz			
		NR Band n12: 15 MHz			
		NR Band n14: 5 MHz			
		NR Band n14: 10 MHz			
		NR Band n26: 5 MHz			
		NR Band n26: 10 MHz			
		NR Band n26: 15 MHz			
		NR Band n26: 20 MHz			
		NR Band n26: 25 MHz			
		NR Band n26: 30 MHz			
		NR Band n26: 35 MHz			
		NR Band n26: 40 MHz			
		NR Band n25: 5 MHz			
		NR Band n25: 10 MHz			
		NR Band n25: 15 MHz			
		NR Band n25: 20 MHz			
		NR Band n25: 25 MHz			
		NR Band n25: 30 MHz			
		NR Band n25: 35 MHz			
		NR Band n25: 40 MHz			
		NR Band n2: 5 MHz			
		NR Band n2: 10 MHz			
		NR Band n2: 15 MHz			
		NR Band n2: 20 MHz			
		NR Band n2: 25 MHz			
		NR Band n2: 30 MHz			
		NR Band n2: 35 MHz			
		NR Band n2: 40 MHz			
		NR Band n30: 5 MHz			
		NR Band n30: 10 MHz			
		NR Band n41: 10 MHz			
		NR Band n41: 15 MHz			
		NR Band n41: 20 MHz			
		NR Band n41: 30 MHz			
		NR Band n41: 35 MHz			
		NR Band n41: 40 MHz			
		NR Band n41: 45 MHz			
		NR Band n41: 50 MHz			
		NR Band n41: 60 MHz			
		NR Band n41: 70 MHz			
		NR Band n41: 80 MHz			
		NR Band n41: 90 MHz			
		NR Band n41: 100 MHz			
		NR Band n48: 10 MHz			
		NR Band n48: 15 MHz			
		NR Band n48: 20 MHz			
		NR Band n48: 30 MHz			
		NR Band n48: 40 MHz			
		NR Band n77 DoD: 15 MHz			
		NR Band n77 DoD: 15 MHz			
		NR Band n77 DoD: 20 MHz			
		NR Band n77 DoD: 25 MHz			
		NR Band n77 DoD: 30 MHz			
		NR Band n77 DoD: 40 MHz			
		NR Band n77 DoD: 50 MHz			
		NR Band n77 DoD: 60 MHz			
		NR Band n77 DoD: 70 MHz			
		NR Band n77 DoD: 80 MHz			
		NR Band n77 DoD: 90 MHz			
		NR Band n77 DoD: 100 MHz			
		NR Band n77: 10 MHz			
		NR Band n77: 15 MHz			
		NR Band n77: 20 MHz			
		NR Band n77: 25 MHz			
		NR Band n77: 30 MHz			
		NR Band n77: 40 MHz			
		NR Band n77: 50 MHz			
		NR Band n77: 60 MHz			
		NR Band n77: 70 MHz			
		NR Band n77: 80 MHz			
		NR Band n77: 90 MHz			
		NR Band n77: 100 MHz			
SCS for NR Band n71, n12, n14, n26, n5, n66, n25, n2, n30		NR Band n41: n48, n77			
		Modulations Supported in 5G			
		A-MPR (Additional MP) disabled for SAR Testing?			
		E-UTRA and NR Carrier Aggregation Possible Combinations			
		LTE Anchor Bands for NR Band n71			
		LTE Anchor Bands for NR Band n12			
		LTE Anchor Bands for NR Band n14			
		LTE Anchor Bands for NR Band n26			
		LTE Anchor Bands for NR Band n25			
		LTE Anchor Bands for NR Band n2			
		LTE Anchor Bands for NR Band n30			
		LTE Anchor Bands for NR Band n48			
		LTE Anchor Bands for NR Band n77			
		LTE Anchor Bands for NR Band n77			
		LTE Anchor Bands for NR Band n77			

3.1 UL MIMO Assessment

The device supports WWAN FR1 UL MIMO operation using Qualcomm Smart Transmit EFS v19. The two UL MIMO antennas are assigned to the same antenna group (AG) in the EFS configuration and operate using the corresponding SISO Plimit entries without implementation of MIMO-specific Plimit values. No MIMO-specific transmit power increase is implemented, and the nominal transmit power for each UL MIMO antenna port is identical or lower to that of the corresponding SISO operating configuration.

An assessment was performed to evaluate the localized RF exposure characteristics of simultaneous UL MIMO transmission. The individual SISO SAR distributions were confirmed to be spatially separated with no overlapping SAR distributions, as demonstrated by an SPLSR value of less than 0.04, together with the antenna implementation and SAR distribution analysis.

Based on the Qualcomm Smart Transmit implementation guidance, this implementation approach is applicable when the absence of overlap between the individual SISO SAR distributions can be demonstrated. This assessment is also consistent with the simultaneous transmission SAR evaluation principles described in FCC KDB Publications 447498 D01 and 248227 D01. Accordingly, the corresponding individual SISO SAR evaluations are considered representative of the localized RF exposure characteristics for this UL MIMO implementation, and separate UL MIMO SAR measurements were not considered necessary.

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4 INTRODUCTION

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

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

4.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 4-1).

Equation 4-1
SAR Mathematical Equation

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

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

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

where:

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

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

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5 DOSIMETRIC ASSESSMENT

5.1 Measurement Procedure

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

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

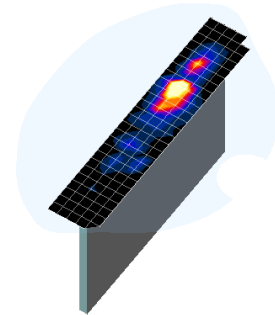


Figure 5-1
Sample SAR Area
Scan

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

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom1}}, \Delta y_{\text{zoom1}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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6 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 $\epsilon = 3$ and loss tangent $\delta = 0.02$.

6.2 SAR Testing per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, for devices containing a keyboard, SAR is required for the bottom surface. For devices with overall dimensions $>200\text{mm}$, the back surface and edges of the device should be tested for SAR compliance with the device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom. Please see the exact antenna locations shown in the Technical Descriptions document.

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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.

7.3 RF Exposure Limits for Frequencies Below 6 GHz

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

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

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

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

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.

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8.4.2 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.

8.4.3 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.

8.4.4 SAR Measurements with Rel 6 HSUPA

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

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

8.4.5 SAR Measurement Conditions for DC-HSDPA

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

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.

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

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.

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.

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9 RF CONDUCTED POWERS

All conducted power measurements for Sub6 WWAN technologies and bands in this section were performed with Time-Averaged SAR Peak exposure mode enabled such that the EUT transmitted continuously at the maximum time averaged transmit power limit (Plimit) or the maximum tune-up power (Pmax), whichever is lower.

9.1 UMTS

Table 9-1
UMTS 850 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	24.29	24.10	24.33	-
6	HSDPA	Subtest 1	23.32	23.34	23.25	0
6		Subtest 2	23.35	23.31	23.26	0
6		Subtest 3	22.86	22.84	22.74	0.5
6		Subtest 4	22.84	22.85	22.75	0.5
6	HSUPA	Subtest 1	23.37	23.32	23.22	0
6		Subtest 2	21.33	21.31	21.23	2
6		Subtest 3	22.28	22.30	22.24	1
6		Subtest 4	21.32	21.28	21.21	2
6		Subtest 5	23.35	23.34	23.22	0
8	DC-HSDPA	Subtest 1	23.30	23.31	23.24	0
8		Subtest 2	23.34	23.33	23.26	0
8		Subtest 3	22.84	22.80	22.77	0.5
8		Subtest 4	22.85	22.81	22.76	0.5

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Table 9-2
UMTS 850 Antenna 2 Measured Plimit for DSI = 6 (Motion)

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	19.43	19.36	19.29	-
6	HSDPA	Subtest 1	18.11	18.10	18.03	0
6		Subtest 2	18.14	18.12	18.02	0
6		Subtest 3	17.64	17.63	17.55	0.5
6		Subtest 4	17.64	17.62	17.54	0.5
6	HSUPA	Subtest 1	18.17	18.12	18.06	0
6		Subtest 2	16.13	16.14	16.03	2
6		Subtest 3	17.12	17.13	17.02	1
6		Subtest 4	16.15	16.12	16.05	2
6		Subtest 5	18.14	18.11	18.04	0
8	DC-HSDPA	Subtest 1	18.10	18.11	18.02	0
8		Subtest 2	18.15	18.12	18.03	0
8		Subtest 3	17.65	17.62	17.56	0.5
8		Subtest 4	17.63	17.61	17.57	0.5

Table 9-3
UMTS 1750, 1900 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	24.77	24.60	24.56	24.79	24.72	24.48	-
6	HSDPA	Subtest 1	23.38	23.19	23.10	23.28	23.31	23.11	0
6		Subtest 2	23.33	23.13	23.05	23.34	23.37	23.02	0
6		Subtest 3	22.81	22.66	22.57	22.86	22.83	22.57	0.5
6		Subtest 4	22.85	22.60	22.54	22.91	22.80	22.57	0.5
6	HSUPA	Subtest 1	23.37	23.13	23.08	23.35	23.28	23.11	0
6		Subtest 2	21.32	21.20	21.09	21.37	21.28	21.10	2
6		Subtest 3	22.34	22.10	22.00	22.37	22.29	22.10	1
6		Subtest 4	21.29	21.05	21.02	21.33	21.28	21.01	2
6		Subtest 5	23.29	23.10	23.00	23.34	23.29	23.07	0
8	DC-HSDPA	Subtest 1	23.35	23.16	23.09	23.39	23.30	23.04	0
8		Subtest 2	23.35	23.14	23.05	23.37	23.32	23.06	0
8		Subtest 3	22.78	22.59	22.55	22.85	22.84	22.60	0.5
8		Subtest 4	22.80	22.62	22.52	22.84	22.82	22.55	0.5

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Table 9-4
UMTS 1750, 1900 Antenna 6 Measured Plimit for DSI = 6 (Motion)

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	17.36	17.23	17.26	16.51	16.48	16.40	-
6	HSDPA	Subtest 1	16.53	16.44	16.31	15.85	15.87	15.79	0
6		Subtest 2	16.61	16.42	16.27	15.88	15.85	15.77	0
6		Subtest 3	16.06	15.87	15.71	15.38	15.34	15.23	0.5
6		Subtest 4	16.09	15.93	15.78	15.40	15.36	15.25	0.5
6	HSUPA	Subtest 1	16.61	16.41	16.36	15.91	15.85	15.75	0
6		Subtest 2	14.60	14.43	14.32	13.90	13.76	13.72	2
6		Subtest 3	15.50	15.34	15.29	14.86	14.88	14.76	1
6		Subtest 4	14.54	14.36	14.26	13.88	13.86	13.73	2
6		Subtest 5	16.61	16.38	16.28	15.91	15.86	15.74	0
8	DC-HSDPA	Subtest 1	16.44	16.31	16.26	15.81	15.72	15.73	0
8		Subtest 2	16.59	16.39	16.30	15.89	15.85	15.73	0
8		Subtest 3	16.09	15.84	15.74	15.40	15.35	15.25	0.5
8		Subtest 4	16.05	15.86	15.78	15.38	15.31	15.22	0.5

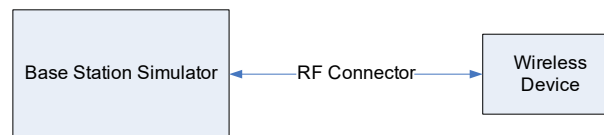


Figure 9-1
Power Measurement Setup

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9.2 LTE Conducted Powers

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

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

LTE Carrier Aggregation Notes:

1. This device supports uplink carrier aggregation for LTE CA_66B, LTE CA_66C, CA_2C, LTE CA_5B, LTE CA_41C, and LTE CA_48C, with a maximum of two component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

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9.2.1 LTE Band 71

Table 9-5
LTE Band 71 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297.0 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.83	0	0
	1	50	23.69		0
	1	99	23.53		0
	50	0	22.91	0-1	1
	50	25	22.86		1
	50	50	22.78		1
	100	0	22.84		1
16QAM	1	0	23.07	0-1	1
	1	50	23.06		1
	1	99	22.92		1
	50	0	21.86	0-2	2
	50	25	21.84		2
	50	50	21.84		2
	100	0	21.79		2
64QAM	1	0	21.92	0-2	2
	1	50	21.91		2
	1	99	21.84		2
	50	0	20.93	0-3	3
	50	25	20.88		3
	50	50	20.82		3
	100	0	20.87		3
256QAM	1	0	19.04	0-5	5
	1	50	18.94		5
	1	99	18.90		5
	50	0	18.88		5
	50	25	18.81		5
	50	50	18.86		5
	100	0	18.81		5

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Table 9-6
LTE Band 71 Antenna 2 Measured Plimit for DSI = 6 (Motion)

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297.0 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.73	0	0
	1	50	18.60		0
	1	99	18.46		0
	50	0	18.82	0-1	0
	50	25	18.68		0
	50	50	18.72		0
	100	0	18.68		0
16QAM	1	0	18.91	0-1	0
	1	50	18.96		0
	1	99	18.71		0
	50	0	18.82	0-2	0
	50	25	18.71		0
	50	50	18.74		0
	100	0	18.73		0
64QAM	1	0	18.83	0-2	0
	1	50	18.76		0
	1	99	18.76		0
	50	0	18.80	0-3	0
	50	25	18.70		0
	50	50	18.73		0
	100	0	18.63		0
256QAM	1	0	18.93	0-5	0
	1	50	18.79		0
	1	99	18.88		0
	50	0	18.77		0
	50	25	18.73		0
	50	50	18.78		0
	100	0	18.73		0

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9.2.2 LTE Band 12

Table 9-7
LTE Band 12 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.20	0	0
	1	25	24.12		0
	1	49	24.02		0
	25	0	23.07	0-1	1
	25	12	23.07		1
	25	25	23.14		1
	50	0	23.12		1
16QAM	1	0	23.36	0-1	1
	1	25	23.26		1
	1	49	23.26		1
	25	0	22.10	0-2	2
	25	12	22.11		2
	25	25	22.13		2
	50	0	22.09		2
64QAM	1	0	22.39	0-2	2
	1	25	22.27		2
	1	49	22.14		2
	25	0	21.13	0-3	3
	25	12	21.14		3
	25	25	21.15		3
	50	0	21.16		3
256QAM	1	0	19.25	0-5	5
	1	25	19.32		5
	1	49	19.21		5
	25	0	19.12		5
	25	12	19.19		5
	25	25	19.21		5
	50	0	19.19		5

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Table 9-8
LTE Band 12 Antenna 2 Measured Plimit for DSI = 6 (Motion)

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.10	0	0
	1	25	19.09		0
	1	49	18.93		0
	25	0	19.05	0-1	0
	25	12	19.01		0
	25	25	19.12		0
	50	0	19.09		0
16QAM	1	0	19.29	0-1	0
	1	25	19.23		0
	1	49	19.14		0
	25	0	19.03	0-2	0
	25	12	19.18		0
	25	25	19.07		0
	50	0	19.10		0
64QAM	1	0	19.25	0-2	0
	1	25	19.19		0
	1	49	19.17		0
	25	0	19.12	0-3	0
	25	12	19.11		0
	25	25	19.11		0
	50	0	19.11		0
256QAM	1	0	19.20	0-5	0
	1	25	19.22		0
	1	49	19.06		0
	25	0	19.10		0
	25	12	19.10		0
	25	25	19.01		0
	50	0	19.10		0

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9.2.3 LTE Band 13

Table 9-9
LTE Band 13 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.98	0	0
	1	25	23.92		0
	1	49	23.86		0
	25	0	22.88	0-1	1
	25	12	23.03		1
	25	25	22.94		1
	50	0	23.00		1
16QAM	1	0	23.21	0-1	1
	1	25	23.10		1
	1	49	23.08		1
	25	0	21.93	0-2	2
	25	12	22.10		2
	25	25	22.04		2
	50	0	22.00		2
64QAM	1	0	22.11	0-2	2
	1	25	22.25		2
	1	49	22.02		2
	25	0	20.98	0-3	3
	25	12	21.03		3
	25	25	20.94		3
	50	0	21.06		3
256QAM	1	0	19.07	0-5	5
	1	25	19.11		5
	1	49	19.03		5
	25	0	18.93		5
	25	12	19.03		5
	25	25	19.01		5
	50	0	18.97		5

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Table 9-10
LTE Band 13 Antenna 2 Measured Plimit for DSI = 6 (Motion)

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.08	0	0
	1	25	19.18		0
	1	49	18.87		0
	25	0	19.00	0-1	0
	25	12	18.87		0
	25	25	19.01		0
	50	0	18.95		0
16QAM	1	0	19.41	0-1	0
	1	25	19.11		0
	1	49	19.06		0
	25	0	19.09	0-2	0
	25	12	18.99		0
	25	25	19.02		0
	50	0	18.97		0
64QAM	1	0	19.27	0-2	0
	1	25	19.25		0
	1	49	18.99		0
	25	0	19.05	0-3	0
	25	12	19.01		0
	25	25	18.97		0
	50	0	18.97		0
256QAM	1	0	19.06	0-5	0
	1	25	19.09		0
	1	49	19.07		0
	25	0	19.06		0
	25	12	19.01		0
	25	25	19.02		0
	50	0	18.99		0

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9.2.4 LTE Band 14

Table 9-11
LTE Band 14 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330.0 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.62	0	0
	1	25	24.82		0
	1	49	24.68		0
	25	0	22.97	0-1	1
	25	12	23.00		1
	25	25	22.94		1
	50	0	22.92		1
16QAM	1	0	23.88	0-1	1
	1	25	23.89		1
	1	49	23.84		1
	25	0	22.75	0-2	2
	25	12	22.81		2
	25	25	22.76		2
	50	0	22.77		2
64QAM	1	0	22.83	0-2	2
	1	25	22.80		2
	1	49	22.85		2
	25	0	21.78	0-3	3
	25	12	21.77		3
	25	25	21.82		3
	50	0	21.75		3
256QAM	1	0	19.81	0-5	5
	1	25	19.83		5
	1	49	19.77		5
	25	0	19.78		5
	25	12	19.77		5
	25	25	19.78		5
	50	0	19.50		5

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Table 9-12
LTE Band 14 Antenna 2 Measured Plimit for DSI = 6 (Motion)

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330.0 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.74	0	0
	1	25	18.82		0
	1	49	18.81		0
	25	0	18.79	0-1	0
	25	12	18.85		0
	25	25	18.93		0
	50	0	18.78		0
16QAM	1	0	19.08	0-1	0
	1	25	18.99		0
	1	49	18.93		0
	25	0	18.81	0-2	0
	25	12	18.84		0
	25	25	18.90		0
	50	0	18.77		0
64QAM	1	0	19.07	0-2	0
	1	25	19.05		0
	1	49	18.86		0
	25	0	18.83	0-3	0
	25	12	18.83		0
	25	25	18.82		0
	50	0	18.82		0
256QAM	1	0	18.94	0-5	0
	1	25	18.96		0
	1	49	18.93		0
	25	0	18.88		0
	25	12	18.94		0
	25	25	18.95		0
	50	0	18.83		0

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9.2.5 LTE Band 5

Table 9-13
LTE Band 5 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

LTE Band 5 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525.0 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.14	0	0
	1	25	24.10		0
	1	49	23.98		0
	25	0	23.09	0-1	1
	25	12	23.08		1
	25	25	23.11		1
	50	0	23.09		1
16QAM	1	0	23.27	0-1	1
	1	25	23.16		1
	1	49	23.19		1
	25	0	22.08	0-2	2
	25	12	22.04		2
	25	25	22.15		2
	50	0	22.13		2
64QAM	1	0	22.24	0-2	2
	1	25	22.27		2
	1	49	22.14		2
	25	0	21.11	0-3	3
	25	12	21.08		3
	25	25	21.12		3
	50	0	21.16		3
256QAM	1	0	19.11	0-5	5
	1	25	19.19		5
	1	49	19.16		5
	25	0	19.06		5
	25	12	19.07		5
	25	25	19.05		5
	50	0	19.14		5

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Table 9-14
LTE Band 5 Antenna 2 Uplink Carrier Aggregation Measured Pmax for DSI = 3 (No Motion)

Combination	PCC									SCC									Power	
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC 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)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	24.37	24.14

Table 9-15
LTE Band 5 Antenna 2 Measured Plimit for DSI = 6 (Motion)

LTE Band 5 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525.0 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.27	0	0
	1	25	19.21		0
	1	49	19.18		0
	25	0	19.26	0-1	0
	25	12	19.22		0
	25	25	19.29		0
	50	0	19.21		0
16QAM	1	0	19.51	0-1	0
	1	25	19.44		0
	1	49	19.50		0
	25	0	19.34	0-2	0
	25	12	19.25		0
	25	25	19.29		0
	50	0	19.28		0
64QAM	1	0	19.49	0-2	0
	1	25	19.50		0
	1	49	19.43		0
	25	0	19.26	0-3	0
	25	12	19.14		0
	25	25	19.20		0
	50	0	19.38		0
256QAM	1	0	19.36	0-5	0
	1	25	19.40		0
	1	49	19.55		0
	25	0	19.35		0
	25	12	19.31		0
	25	25	19.29		0
	50	0	19.41		0

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9.2.6 LTE Band 26

Table 9-16
LTE Band 26 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.99	0	0
	1	36	23.86		0
	1	74	23.74		0
	36	0	22.99	0-1	1
	36	18	22.98		1
	36	37	23.03		1
	75	0	22.94		1
16QAM	1	0	23.13	0-1	1
	1	36	23.31		1
	1	74	23.13		1
	36	0	22.02	0-2	2
	36	18	22.03		2
	36	37	22.01		2
	75	0	21.95		2
64QAM	1	0	22.19	0-2	2
	1	36	22.11		2
	1	74	22.15		2
	36	0	21.06	0-3	3
	36	18	21.03		3
	36	37	21.07		3
	75	0	20.99		3
256QAM	1	0	19.04	0-5	5
	1	36	19.11		5
	1	74	19.14		5
	36	0	19.01		5
	36	18	19.00		5
	36	37	19.06		5
	75	0	19.04		5

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Table 9-17
LTE Band 26 Antenna 2 Measured Plimit for DSI = 6 (Motion)

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.17	0	0
	1	36	19.09		0
	1	74	18.91		0
	36	0	19.22	0-1	0
	36	18	19.10		0
	36	37	19.14		0
	75	0	19.08		0
16QAM	1	0	19.43	0-1	0
	1	36	19.51		0
	1	74	19.37		0
	36	0	19.20	0-2	0
	36	18	19.21		0
	36	37	19.18		0
	75	0	19.17		0
64QAM	1	0	19.42	0-2	0
	1	36	19.26		0
	1	74	19.20		0
	36	0	19.33	0-3	0
	36	18	19.20		0
	36	37	19.26		0
	75	0	19.26		0
256QAM	1	0	19.24	0-5	0
	1	36	19.31		0
	1	74	19.33		0
	36	0	19.34		0
	36	18	19.21		0
	36	37	19.22		0
	75	0	19.28		0

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9.2.7 LTE Band 66

Table 9-18
LTE Band 66 Antenna 6 – 20 MHz Bandwidth Measured Pmax for DSI = 3 (No Motion)

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.22	24.22	23.80	0	0
	1	50	24.23	24.08	23.82		0
	1	99	24.25	23.98	23.76		0
	50	0	23.47	23.14	22.87	0-1	1
	50	25	23.51	23.15	22.90		1
	50	50	23.40	23.12	22.88		1
	100	0	23.47	23.13	22.86		1
16QAM	1	0	23.73	23.63	23.09	0-1	1
	1	50	23.96	23.58	23.10		1
	1	99	23.68	23.30	23.00		1
	50	0	22.46	22.13	21.87	0-2	2
	50	25	22.63	22.20	21.90		2
	50	50	22.49	22.10	21.87		2
	100	0	22.45	22.12	21.84		2
64QAM	1	0	22.69	22.33	22.08	0-2	2
	1	50	22.53	22.36	22.03		2
	1	99	22.47	22.23	21.84		2
	50	0	21.46	21.05	20.87	0-3	3
	50	25	21.51	21.11	20.85		3
	50	50	21.45	20.99	20.82		3
	100	0	21.52	21.06	20.98		3
256QAM	1	0	19.54	19.09	18.89	0-5	5
	1	50	19.53	19.03	18.90		5
	1	99	19.37	19.03	19.01		5
	50	0	19.54	18.98	18.82		5
	50	25	19.53	19.09	18.84		5
	50	50	19.36	18.90	18.80		5
	100	0	19.52	18.96	18.85		5

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Table 9-19
LTE Band 66 Antenna 6 – 10 MHz Bandwidth Measured Pmax for DSI = 3 (No Motion)

LTE Band 66 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022.0 (1715.0 MHz)	132322.0 (1745.0 MHz)	132622.0 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.26	24.15	23.91	0	0
	1	25	24.23	23.89	23.89		0
	1	49	23.88	23.67	23.88		0
	25	0	23.20	22.91	22.78	0-1	1
	25	12	23.22	22.95	22.91		1
	25	25	23.18	22.90	22.87		1
	50	0	23.16	22.82	22.77		1
16QAM	1	0	23.66	23.54	23.19	0-1	1
	1	25	23.65	23.30	23.24		1
	1	49	23.37	23.00	22.90		1
	25	0	22.15	21.82	21.91	0-2	2
	25	12	22.32	21.89	22.00		2
	25	25	22.18	21.79	21.68		2
	50	0	22.14	21.81	21.77		2
64QAM	1	0	22.38	22.12	21.93	0-2	2
	1	25	22.22	22.05	22.00		2
	1	49	22.16	21.92	21.78		2
	25	0	21.15	20.74	20.67	0-3	3
	25	12	21.20	20.91	20.72		3
	25	25	21.14	20.68	20.78		3
	50	0	21.21	20.75	20.66		3
256QAM	1	0	19.44	19.02	18.89	0-5	5
	1	25	19.22	18.98	18.91		5
	1	49	19.06	18.90	18.88		5
	25	0	19.23	18.89	18.79		5
	25	12	19.22	18.78	18.80		5
	25	25	19.05	18.59	18.70		5
	50	0	19.21	18.65	18.71		5

Table 9-20
LTE Band 66 Antenna 6 Uplink Carrier Aggregation Measured Pmax for DSI = 3 (No Motion)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC							SCC							Power		
				PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (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)
CA_66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	1	99	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	1	0	24.35	24.25
CA_66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	1	49	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	1	0	23.64	23.88

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Table 9-21
LTE Band 66 Antenna 6 – 20 MHz Bandwidth Measured Plimit for DSI = 6 (Motion)

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.67	17.66	16.95	0	0
	1	50	17.32	17.15	17.02		0
	1	99	17.33	17.11	16.99		0
	50	0	17.43	17.18	17.14	0-1	0
	50	25	17.47	17.25	17.13		0
	50	50	17.45	17.19	17.18		0
	100	0	17.46	17.28	17.22		0
16QAM	1	0	17.64	17.46	17.30	0-1	0
	1	50	17.58	17.57	17.32		0
	1	99	17.50	17.51	17.15		0
	50	0	17.40	17.22	17.05	0-2	0
	50	25	17.43	17.20	17.16		0
	50	50	17.45	17.22	17.25		0
	100	0	17.50	17.22	17.19		0
64QAM	1	0	17.61	17.43	17.11	0-2	0
	1	50	17.61	17.39	17.37		0
	1	99	17.47	17.21	17.15		0
	50	0	17.33	17.28	17.13	0-3	0
	50	25	17.51	17.33	17.19		0
	50	50	17.47	17.26	17.15		0
	100	0	17.48	17.27	17.16		0
256QAM	1	0	17.59	17.36	17.16	0-5	0
	1	50	17.51	17.24	17.30		0
	1	99	17.67	17.25	17.36		0
	50	0	17.48	17.29	17.21		0
	50	25	17.51	17.29	17.23		0
	50	50	17.45	17.25	17.24		0
	100	0	17.48	17.32	17.23		0

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9.2.8 LTE Band 25

Table 9-22
LTE Band 25 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.10	24.15	23.99	0	0
	1	50	24.08	24.08	23.70		0
	1	99	24.11	23.98	23.66		0
	50	0	23.18	23.25	23.05	0-1	1
	50	25	23.28	23.30	22.92		1
	50	50	23.31	23.33	22.80		1
	100	0	23.24	23.20	22.93		1
16QAM	1	0	23.44	23.40	23.37	0-1	1
	1	50	23.55	23.65	23.24		1
	1	99	23.50	23.40	22.70		1
	50	0	22.25	22.30	22.00	0-2	2
	50	25	22.33	22.27	21.90		2
	50	50	22.32	22.25	21.77		2
	100	0	22.30	22.18	21.91		2
64QAM	1	0	22.43	22.43	22.12	0-2	2
	1	50	22.32	22.34	21.96		2
	1	99	22.26	22.20	21.80		2
	50	0	21.19	21.25	21.02	0-3	3
	50	25	21.41	21.24	20.98		3
	50	50	21.25	21.24	20.87		3
	100	0	21.29	21.22	21.01		3
256QAM	1	0	19.20	19.36	19.15	0-5	5
	1	50	19.22	19.34	18.94		5
	1	99	19.32	19.18	18.60		5
	50	0	19.20	19.26	18.91		5
	50	25	19.26	19.23	18.85		5
	50	50	19.33	19.26	18.77		5
	100	0	19.28	19.20	18.90		5

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Table 9-23
LTE Band 25 Antenna 6 Measured Plimit for DSI = 6 (Motion)

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.54	16.46	16.39	0	0
	1	50	16.62	16.51	16.52		0
	1	99	16.55	16.45	16.48		0
	50	0	16.58	16.31	16.50	0-1	0
	50	25	16.65	16.26	16.57		0
	50	50	16.64	16.36	16.59		0
	100	0	16.57	16.25	16.55		0
16QAM	1	0	16.59	16.52	16.61	0-1	0
	1	50	16.67	16.65	16.79		0
	1	99	16.63	16.66	16.66		0
	50	0	16.59	16.43	16.53	0-2	0
	50	25	16.67	16.41	16.60		0
	50	50	16.70	16.50	16.65		0
	100	0	16.66	16.37	16.64		0
64QAM	1	0	16.66	16.54	16.60	0-2	0
	1	50	16.67	16.83	16.73		0
	1	99	16.70	16.69	16.64		0
	50	0	16.60	16.27	16.49	0-3	0
	50	25	16.65	16.30	16.60		0
	50	50	16.69	16.42	16.62		0
	100	0	16.67	16.35	16.62		0
256QAM	1	0	16.74	16.68	16.63	0-5	0
	1	50	16.72	16.67	16.68		0
	1	99	16.75	16.74	16.68		0
	50	0	16.44	16.37	16.48		0
	50	25	16.54	16.45	16.61		0
	50	50	16.53	16.47	16.62		0
	100	0	16.66	16.29	16.60		0

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9.2.9 LTE Band 2

Table 9-24
LTE Band 2 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

LTE Band 2 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700.0 (1860.0 MHz)	18900.0 (1880.0 MHz)	19100.0 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.01	24.12	24.03	0	0
	1	50	24.00	24.08	24.02		0
	1	99	23.89	24.01	23.85		0
	50	0	23.10	23.20	23.15	0-1	1
	50	25	23.21	23.21	23.11		1
	50	50	23.17	23.25	23.17		1
	100	0	23.19	23.14	23.08		1
16QAM	1	0	23.30	23.48	23.71	0-1	1
	1	50	23.41	23.61	23.41		1
	1	99	23.30	23.46	23.10		1
	50	0	22.10	22.25	22.18	0-2	2
	50	25	22.21	22.21	22.12		2
	50	50	22.17	22.23	22.14		2
	100	0	22.22	22.22	22.13		2
64QAM	1	0	22.19	22.26	22.40	0-2	2
	1	50	22.32	22.40	22.42		2
	1	99	22.25	22.33	22.19		2
	50	0	21.17	21.18	21.13	0-3	3
	50	25	21.18	21.20	21.10		3
	50	50	21.15	21.24	21.14		3
	100	0	21.29	21.20	21.07		3
256QAM	1	0	19.26	19.27	19.20	0-5	5
	1	50	19.10	19.22	19.38		5
	1	99	19.31	19.35	19.23		5
	50	0	19.13	19.22	19.15		5
	50	25	19.25	19.23	19.10		5
	50	50	19.24	19.26	19.12		5
	100	0	19.17	19.31	19.11		5

Table 9-25
LTE Band 2 Antenna 6 Uplink Carrier Aggregation Measured Pmax for DSI = 3 (No Motion)

Combination	PCC									SCC									Power	
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC 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)
CA_2C	LTE B2	20	18900	1880.0	900	1960.0	QPSK	1	0	LTE B2	20	18702	1860.2	702	1940.2	QPSK	1	99	24.59	24.12

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Table 9-26
LTE Band 2 Antenna 6 Measured Plimit for DSI = 6 (Motion)

LTE Band 2 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700.0 (1860.0 MHz)	18900.0 (1880.0 MHz)	19100.0 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.48	16.51	16.46	0	0
	1	50	16.54	16.56	16.52		0
	1	99	16.65	16.56	16.53		0
	50	0	16.57	16.55	16.56	0-1	0
	50	25	16.66	16.58	16.57		0
	50	50	16.68	16.66	16.67		0
	100	0	16.60	16.56	16.57		0
16QAM	1	0	16.57	16.70	16.59	0-1	0
	1	50	16.82	16.81	16.95		0
	1	99	16.59	16.77	16.66		0
	50	0	16.55	16.53	16.58	0-2	0
	50	25	16.64	16.56	16.59		0
	50	50	16.69	16.65	16.65		0
	100	0	16.64	16.54	16.58		0
64QAM	1	0	16.75	16.70	16.74	0-2	0
	1	50	16.88	16.85	16.90		0
	1	99	16.65	16.68	16.73		0
	50	0	16.52	16.55	16.57	0-3	0
	50	25	16.67	16.59	16.59		0
	50	50	16.67	16.67	16.69		0
	100	0	16.66	16.59	16.60		0
256QAM	1	0	16.60	16.84	16.60	0-5	0
	1	50	16.71	16.81	16.66		0
	1	99	16.79	16.81	16.71		0
	50	0	16.52	16.56	16.59		0
	50	25	16.65	16.60	16.60		0
	50	50	16.66	16.65	16.69		0
	100	0	16.67	16.59	16.63		0

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9.2.10 LTE Band 30

Table 9-27
LTE Band 30 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710.0 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.09	0	0
	1	25	21.20		0
	1	49	21.16		0
	25	0	20.10	0-1	1
	25	12	20.15		1
	25	25	20.22		1
	50	0	20.13		1
16QAM	1	0	20.35	0-1	1
	1	25	20.46		1
	1	49	20.42		1
	25	0	19.10	0-2	2
	25	12	19.14		2
	25	25	19.24		2
	50	0	19.09		2
64QAM	1	0	19.38	0-2	2
	1	25	19.43		2
	1	49	19.56		2
	25	0	18.09	0-3	3
	25	12	18.12		3
	25	25	18.21		3
	50	0	18.11		3
256QAM	1	0	16.12	0-5	5
	1	25	16.34		5
	1	49	16.32		5
	25	0	16.10		5
	25	12	16.15		5
	25	25	16.21		5
	50	0	16.08		5

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Table 9-28
LTE Band 30 Antenna 6 Measured Plimit for DSI = 6 (Motion)

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710.0 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	15.74	0	0
	1	25	15.82		0
	1	49	15.84		0
	25	0	15.72	0-1	0
	25	12	15.76		0
	25	25	15.85		0
	50	0	15.75		0
16QAM	1	0	16.04	0-1	0
	1	25	16.15		0
	1	49	16.17		0
	25	0	15.74	0-2	0
	25	12	15.85		0
	25	25	15.92		0
	50	0	15.80		0
64QAM	1	0	16.00	0-2	0
	1	25	16.05		0
	1	49	16.11		0
	25	0	15.79	0-3	0
	25	12	15.81		0
	25	25	15.91		0
	50	0	15.84		0
256QAM	1	0	15.89	0-5	0
	1	25	16.07		0
	1	49	16.05		0
	25	0	15.76		0
	25	12	15.83		0
	25	25	15.87		0
	50	0	15.79		0

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9.2.11 LTE Band 41

Table 9-29
LTE Band 41 PC3 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.11	24.12	24.07	23.95	23.95	0	0
	1	50	24.19	24.16	24.08	23.99	23.95		0
	1	99	24.13	24.13	24.18	24.09	23.98		0
	50	0	23.20	23.20	23.17	23.09	23.07	0-1	1
	50	25	23.33	23.31	23.16	23.20	23.06		1
	50	50	23.34	23.29	23.26	23.24	23.13		1
16QAM	100	0	23.33	23.30	23.17	23.17	23.05	0-1	1
	1	0	23.16	23.20	23.07	23.05	23.15		1
	1	50	23.24	23.22	23.11	23.14	23.11		1
	1	99	23.29	23.14	23.10	23.23	23.09	0-2	1
	50	0	22.16	22.18	22.18	22.11	22.08		2
	50	25	22.30	22.26	22.21	22.20	22.09		2
64QAM	50	50	22.28	22.25	22.28	22.23	22.18	0-2	2
	100	0	22.30	22.26	22.15	22.18	22.04		2
	1	0	22.02	22.09	22.12	21.91	21.99		0-2
	1	50	22.05	22.04	22.11	21.98	21.92	2	
	1	99	22.12	22.12	22.14	22.07	21.96	2	
	50	0	21.19	21.15	21.15	21.11	21.07	0-3	3
50	25	21.32	21.27	21.15	21.21	21.09	3		
50	50	21.29	21.23	21.24	21.24	21.14	3		
256QAM	100	0	21.32	21.24	21.13	21.22	21.05	0-5	3
	1	0	19.11	19.20	18.99	19.06	19.02		5
	1	50	19.18	19.17	19.07	19.09	19.02		5
	1	99	19.31	19.30	19.14	19.20	19.10		5
	50	0	19.24	19.13	19.14	19.06	19.02		5
	50	25	19.37	19.26	19.21	19.17	19.04		5
	50	50	19.38	19.25	19.24	19.20	19.07	5	
	100	0	19.34	19.33	19.16	19.16	19.05	5	

Table 9-30
LTE Band 41 PC2 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	26.17	26.13	26.15	25.96	26.01	0	0
	1	50	26.20	26.21	26.10	25.99	26.01		0
	1	99	26.18	26.22	26.19	26.12	26.01		0
	50	0	24.93	25.17	25.15	24.92	25.04	0-1	1
	50	25	25.36	25.32	25.17	25.14	25.05		1
	50	50	25.37	25.29	25.25	25.18	25.11		1
	100	0	25.35	25.31	25.10	25.14	25.02		1

Table 9-31
LTE Band 41 PC3 Antenna 6 Uplink Carrier Aggregation Measured Pmax for DSI = 3 (No Motion)

	PCC							SCC							Power	
Combination	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)
CA_41C	LTE B41	20	39750	2506.0	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	23.97	24.13

Table 9-32
LTE Band 41 PC2 Antenna 6 Uplink Carrier Aggregation Measured Pmax for DSI = 3 (No Motion)

Combination	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)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	1	99	LTE B41 PC2	20	39948	2525.8	QPSK	1	0	26.05	26.18

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Table 9-33
LTE Band 41 PC3 Antenna 6 Measured Plimit for DSI = 6 (Motion)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	17.30	17.28	17.29	17.20	17.14	0	0
	1	50	17.35	17.31	17.25	17.21	17.11		0
	1	99	17.45	17.28	17.38	17.32	17.16		0
	50	0	17.35	17.37	17.34	17.22	17.18	0-1	0
	50	25	17.43	17.43	17.34	17.33	17.20		0
	50	50	17.46	17.41	17.44	17.36	17.27		0
16QAM	100	0	17.38	17.44	17.32	17.32	17.19	0	
	1	0	17.16	17.23	17.24	17.08	17.29	0-1	0
	1	50	17.18	17.28	17.30	17.16	17.23		0
	1	99	17.24	17.27	17.30	17.21	17.25		0
	50	0	17.38	17.40	17.34	17.25	17.17	0-2	0
	50	25	17.44	17.44	17.35	17.36	17.18		0
50	50	17.45	17.45	17.46	17.40	17.24	0		
64QAM	100	0	17.47	17.43	17.32	17.34	17.19	0	
	1	0	17.27	17.30	17.29	17.12	17.09	0-2	0
	1	50	17.33	17.32	17.30	17.25	17.07		0
	1	99	17.31	17.30	17.34	17.26	17.11		0
	50	0	17.31	17.33	17.33	17.18	17.21	0-3	0
	50	25	17.41	17.40	17.31	17.30	17.21		0
50	50	17.42	17.37	17.42	17.33	17.29	0		
256QAM	100	0	17.41	17.43	17.28	17.30	17.23	0	
	1	0	17.20	17.20	17.13	17.09	17.16	0-5	0
	1	50	17.32	17.38	17.24	17.19	17.18		0
	1	99	17.43	17.45	17.22	17.28	17.22		0
	50	0	17.36	17.39	17.32	17.21	17.18		0
	50	25	17.48	17.47	17.33	17.33	17.18		0
50	50	17.50	17.46	17.42	17.33	17.25	0		
100	0	17.47	17.48	17.32	17.31	17.18	0		

Table 9-34
LTE Band 41 PC2 Antenna 6 Measured Plimit for DSI = 6 (Motion)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.00	19.06	18.95	18.88	18.92	0	0
	1	50	19.07	19.06	18.96	18.85	18.89		0
	1	99	19.21	19.00	19.01	18.99	18.93		0
	50	0	19.05	19.04	19.02	18.89	18.89	0-1	0
	50	25	19.20	19.16	19.04	19.01	18.90		0
	50	50	19.15	19.11	19.11	19.05	18.97		0
	100	0	19.10	19.19	19.03	19.02	18.87		0

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9.2.12 LTE Band 48

Table 9-35
LTE Band 48 Antenna 1 Measured Pmax for DSI = 3 (No Motion)

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340.0 (3560.0 MHz)	55773.0 (3603.3 MHz)	56207.0 (3646.7 MHz)	56640.0 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	20.28	20.20	20.34	20.06	0	0
	1	50	20.24	20.28	20.30	20.08		0
	1	99	20.16	20.30	20.18	20.00		0
	50	0	19.39	19.38	19.38	19.18	0-1	1
	50	25	19.32	19.34	19.40	19.21		1
	50	50	19.30	19.38	19.31	19.22		1
	100	0	19.31	19.30	19.35	19.12		1
16QAM	1	0	19.25	19.19	19.25	18.96	0-1	1
	1	50	19.45	19.22	19.29	19.10		1
	1	99	19.14	19.29	19.17	19.01		1
	50	0	18.39	18.36	18.39	18.18	0-2	2
	50	25	18.27	18.35	18.41	18.20		2
	50	50	18.30	18.36	18.29	18.19		2
	100	0	18.29	18.34	18.38	18.21		2
64QAM	1	0	18.39	18.35	18.38	18.22	0-2	2
	1	50	18.35	18.50	18.47	18.32		2
	1	99	18.31	18.40	18.32	18.11		2
	50	0	17.41	17.36	17.39	17.19	0-3	3
	50	25	17.32	17.35	17.37	17.21		3
	50	50	17.33	17.36	17.31	17.20		3
	100	0	17.30	17.34	17.38	17.20		3
256QAM	1	0	15.30	15.29	15.36	15.08	0-5	5
	1	50	15.26	15.26	15.20	15.04		5
	1	99	15.20	15.32	15.29	15.03		5
	50	0	15.39	15.35	15.38	15.17		5
	50	25	15.31	15.33	15.37	15.19		5
	50	50	15.29	15.37	15.30	15.19		5
	100	0	15.28	15.32	15.37	15.18		5

Table 9-36
LTE Band 48 Antenna 1 Uplink Carrier Aggregation Measured Pmax for DSI = 3 (No Motion)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC					SCC					Power			
			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)
CA_48C	LTE B48	20	56207	3646.7	QPSK	1	0	LTE B48	20	56009	3626.9	QPSK	1	99	20.03	20.34

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Table 9-37
LTE Band 48 Antenna 1 Measured Plimit for DSI = 6 (Motion)

LTE Band 48 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			55340.0 (3560.0 MHz)	55773.0 (3603.3 MHz)	56207.0 (3646.7 MHz)	56640.0 (3690.0 MHz)			
			Conducted Power [dBm]						
QPSK	1	0	14.37	14.16	14.10	14.03	0	0	
	1	50	14.32	14.23	14.19	14.01		0	
	1	99	14.50	14.22	14.19	13.97		0	
	50	0	14.48	14.33	14.29	14.16	0-1	0	
	50	25	14.43	14.29	14.32	14.18		0	
	50	50	14.45	14.32	14.28	14.18		0	
16QAM	100	0	14.46	14.32	14.37	14.18	0-1	0	
	1	0	14.50	14.32	14.23	14.09		0	
	1	50	14.58	14.40	14.32	14.20		0	
	1	99	14.55	14.42	14.28	14.14	0-2	0	
	50	0	14.50	14.36	14.28	14.16		0	
	50	25	14.46	14.31	14.32	14.20		0	
64QAM	50	50	14.50	14.37	14.27	14.19	0-2	0	
	100	0	14.52	14.34	14.33	14.20		0	
	1	0	14.27	14.12	14.10	14.01		0-2	0
	1	50	14.39	14.18	14.12	14.00	0		
	1	99	14.36	14.23	14.11	13.93	0		
	50	0	14.53	14.36	14.31	14.20	0-3	0	
50	25	14.49	14.33	14.36	14.15	0			
50	50	14.52	14.35	14.31	14.21	0			
256QAM	100	0	14.51	14.37	14.38	14.19	0-3	0	
	1	0	14.51	14.40	14.23	14.06		0-5	0
	1	50	14.52	14.47	14.31	14.06			0
	1	99	14.53	14.50	14.27	14.02	0		
	50	0	14.53	14.36	14.32	14.17	0		
	50	25	14.51	14.31	14.36	14.16	0		
	50	50	14.52	14.36	14.29	14.20		0	
	100	0	14.54	14.37	14.37	14.21		0	

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Table 9-38
LTE Band 48 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340.0 (3560.0 MHz)	55773.0 (3603.3 MHz)	56207.0 (3646.7 MHz)	56640.0 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	20.84	20.25	20.02	20.03	0	0
	1	50	20.80	20.18	20.01	20.29		0
	1	99	20.81	20.18	20.05	20.20		0
	50	0	20.00	19.34	19.10	19.36	0-1	1
	50	25	19.95	19.30	19.18	19.31		1
	50	50	19.93	19.30	19.18	19.32		1
	100	0	19.87	19.29	19.15	19.28		1
16QAM	1	0	19.82	19.23	19.00	18.97	0-1	1
	1	50	19.49	18.98	19.04	18.96		1
	1	99	19.61	18.74	19.01	19.01		1
	50	0	18.90	18.31	18.13	18.25	0-2	2
	50	25	18.95	18.30	18.17	18.24		2
	50	50	18.87	18.30	18.14	18.34		2
	100	0	18.94	18.36	18.23	18.32		2
64QAM	1	0	19.00	18.35	18.27	18.19	0-2	2
	1	50	18.94	18.16	18.21	18.49		2
	1	99	18.91	18.46	18.39	18.45		2
	50	0	17.87	17.22	17.08	17.20	0-3	3
	50	25	17.88	17.29	17.19	17.19		3
	50	50	17.84	17.24	17.15	17.25		3
	100	0	17.96	17.38	17.20	17.29		3
256QAM	1	0	15.65	14.76	14.84	14.92	0-5	5
	1	50	15.35	14.74	14.93	14.98		5
	1	99	15.51	15.19	14.88	14.92		5
	50	0	15.91	15.27	15.15	15.30		5
	50	25	15.98	15.28	15.15	15.32		5
	50	50	15.96	15.33	15.19	15.31		5
	100	0	15.95	15.38	15.24	15.34		5

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Table 9-39
LTE Band 48 Antenna 6 Measured Plimit for DSI = 6 (Motion)

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340.0 (3560.0 MHz)	55773.0 (3603.3 MHz)	56207.0 (3646.7 MHz)	56640.0 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	13.53	13.12	12.93	13.16	0	0
	1	50	13.47	13.02	12.87	12.94		0
	1	99	13.41	13.23	12.87	12.96		0
	50	0	13.48	13.10	12.94	13.00	0-1	0
	50	25	13.53	13.09	13.02	13.00		0
	50	50	13.52	13.06	12.90	12.96		0
	100	0	13.52	13.09	12.99	13.00		0
16QAM	1	0	13.30	13.21	12.97	12.97	0-1	0
	1	50	13.56	12.93	12.87	12.95		0
	1	99	13.55	12.76	13.03	12.90		0
	50	0	13.50	13.08	12.93	13.01	0-2	0
	50	25	13.49	13.07	13.01	13.06		0
	50	50	13.47	13.09	12.90	12.96		0
	100	0	13.47	13.05	12.94	12.97		0
64QAM	1	0	12.87	12.97	12.12	12.77	0-2	0
	1	50	12.95	12.55	12.53	12.64		0
	1	99	12.88	12.45	12.75	12.63		0
	50	0	13.47	13.04	12.94	12.98	0-3	0
	50	25	13.52	13.10	13.01	13.02		0
	50	50	13.49	13.07	12.99	12.86		0
	100	0	13.52	13.07	12.98	12.97		0
256QAM	1	0	13.16	12.49	12.80	12.62	0-5	0
	1	50	13.20	12.98	12.67	12.66		0
	1	99	13.25	12.81	12.70	12.78		0
	50	0	13.51	13.14	12.95	13.02		0
	50	25	13.52	13.17	13.00	13.05		0
	50	50	13.49	13.09	12.96	12.91		0
	100	0	13.52	13.11	13.01	13.06		0



Figure 9-2
Power Measurement Setup

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9.3 NR Conducted Powers

Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

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

9.3.1 NR Band n71

Table 9-40
NR Band n71 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.54	0	0.0
	1	53	23.58		0.0
	1	104	23.55		0.0
	50	0	22.73	0-1	1.0
	50	28	23.55	0	0.0
	50	56	22.68	0-1	1.0
	100	0	22.73		1.0
DFT-s-OFDM 16QAM	1	1	22.57	0-1	1.0
CP-OFDM QPSK	1	1	22.12	0-1.5	1.5

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Table 9-41
NR Band n71 Antenna 2 Measured Plimit for DSI = 6 (Motion)

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.93	0	0.0
	1	53	17.92		0.0
	1	104	17.82		0.0
	50	0	17.96	0-1	0.0
	50	28	17.99	0	0.0
	50	56	17.89	0-1	0.0
	100	0	17.90		0.0
DFT-s-OFDM 16QAM	1	1	17.85	0-1	0.0
CP-OFDM QPSK	1	1	17.95	0-1.5	0.0

9.3.2 NR Band n12

Table 9-42
NR Band n12 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.01	0	0.0
	1	40	23.95		0.0
	1	77	24.05		0.0
	36	0	23.08	0-1	1.0
	36	22	23.98	0	0.0
	36	43	23.01	0-1	1.0
	75	0	22.98		1.0
DFT-s-OFDM 16QAM	1	1	22.98	0-1	1.0
CP-OFDM QPSK	1	1	22.52	0-1.5	1.5

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Table 9-43
NR Band n12 Antenna 2 Measured Plimit for DSI = 6 (Motion)

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.43	0	0.0
	1	40	18.26		0.0
	1	77	18.32		0.0
	36	0	18.44	0-1	0.0
	36	22	18.32	0	0.0
	36	43	18.33	0-1	0.0
	75	0	18.31		0.0
DFT-s-OFDM 16QAM	1	1	18.37	0-1	0.0
CP-OFDM QPSK	1	1	18.51	0-1.5	0.0

9.3.3 NR Band n14

Table 9-44
NR Band n14 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.74	0	0.0
	1	26	23.78		0.0
	1	50	23.69		0.0
	25	0	22.75	0-1	1.0
	25	14	23.82	0	0.0
	25	27	22.81	0-1	1.0
	50	0	22.80		1.0
DFT-s-OFDM 16QAM	1	1	22.83	0-1	1.0
CP-OFDM QPSK	1	1	22.37	0-1.5	1.5

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Table 9-45
NR Band n14 Antenna 2 Measured Plimit for DSI = 6 (Motion)

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.89	0	0.0
	1	26	17.93		0.0
	1	50	17.85		0.0
	25	0	17.91	0-1	0.0
	25	14	17.98	0	0.0
	25	27	17.91	0-1	0.0
	50	0	17.90		0.0
DFT-s-OFDM 16QAM	1	1	17.82	0-1	0.0
CP-OFDM QPSK	1	1	17.85	0-1.5	0.0

9.3.4 NR Band n5

Table 9-46
NR Band n5 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.08	0	0.0
	1	53	24.02		0.0
	1	104	23.91		0.0
	50	0	23.30	0-1	1.0
	50	28	24.02	0	0.0
	50	56	23.16	0-1	1.0
	100	0	23.20		1.0
DFT-s-OFDM 16QAM	1	1	23.10	0-1	1.0
CP-OFDM QPSK	1	1	22.64	0-1.5	1.5

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Table 9-47
NR Band n5 Antenna 2 Measured Plimit for DSI = 6 (Motion)

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.54	0	0.0
	1	53	18.33		0.0
	1	104	18.36		0.0
	50	0	18.46	0-1	0.0
	50	28	18.39	0	0.0
	50	56	18.36	0-1	0.0
	100	0	18.41		0.0
DFT-s-OFDM 16QAM	1	1	18.45	0-1	0.0
CP-OFDM QPSK	1	1	18.54	0-1.5	0.0

9.3.5 NR Band n26

Table 9-48
NR Band n26 Antenna 2 Measured Pmax for DSI = 3 (No Motion)

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.98	0	0.0
	1	53	24.01		0.0
	1	104	23.99		0.0
	50	0	23.15	0-1	1.0
	50	28	24.04	0	0.0
	50	56	23.01	0-1	1.0
	100	0	23.04		1.0
DFT-s-OFDM 16QAM	1	1	22.90	0-1	1.0
CP-OFDM QPSK	1	1	22.43	0-1.5	1.5

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Table 9-49
NR Band n26 Antenna 2 Measured Plimit for DSI = 6 (Motion)

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.56	0	0.0
	1	53	18.34		0.0
	1	104	18.37		0.0
	50	0	18.46	0-1	0.0
	50	28	18.35	0	0.0
	50	56	18.37	0-1	0.0
	100	0	18.42		0.0
DFT-s-OFDM 16QAM	1	1	18.43	0-1	0.0
CP-OFDM QPSK	1	1	18.49	0-1.5	0.0

9.3.6 NR Band n66

Table 9-50
NR Band n66 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.18	0	0.0
	1	108	24.22		0.0
	1	214	24.24		0.0
	108	0	23.29	0-1	1.0
	108	54	24.28	0	0.0
	108	108	23.40	0-1	1.0
	216	0	23.34		1.0
DFT-s-OFDM 16QAM	1	1	23.09	0-1	1.0
CP-OFDM QPSK	1	1	22.63	0-1.5	1.5

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Table 9-51
NR Band n66 Antenna 6 Measured Plimit for DSI = 6 (Motion)

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.09	0	0.0
	1	108	17.05		0.0
	1	214	16.98		0.0
	108	0	17.21	0-1	0.0
	108	54	17.13	0	0.0
	108	108	17.16	0-1	0.0
	216	0	17.09		0.0
DFT-s-OFDM 16QAM	1	1	17.01	0-1	0.0
CP-OFDM QPSK	1	1	17.13	0-1.5	0.0

9.3.7 NR Band n25

Table 9-52
NR Band n25 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.11	0	0.0
	1	108	24.15		0.0
	1	214	24.13		0.0
	108	0	23.13	0-1	1.0
	108	54	24.17	0	0.0
	108	108	23.09	0-1	1.0
	216	0	23.07		1.0
DFT-s-OFDM 16QAM	1	1	22.99	0-1	1.0
CP-OFDM QPSK	1	1	22.54	0-1.5	1.5

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Table 9-53
NR Band n25 Antenna 6 Measured Plimit for DSI = 6 (Motion)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.38	0	0.0
	1	108	16.39		0.0
	1	214	16.34		0.0
	108	0	16.45	0-1	0.0
	108	54	16.42	0	0.0
	108	108	16.43	0-1	0.0
	216	0	16.40		0.0
DFT-s-OFDM 16QAM	1	1	16.29	0-1	0.0
CP-OFDM QPSK	1	1	16.38	0-1.5	0.0

9.3.8 NR Band n30

Table 9-54
NR Band n30 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.15	0	0.0
	1	26	21.22		0.0
	1	50	21.25		0.0
	25	0	20.15	0-1	1.0
	25	14	21.19	0	0.0
	25	27	20.23	0-1	1.0
	50	0	20.20		1.0
DFT-s-OFDM 16QAM	1	1	20.16	0-1	1.0
CP-OFDM QPSK	1	1	19.63	0-1.5	1.5

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Table 9-55
NR Band n30 Antenna 6 Measured Plimit for DSI = 6 (Motion)
NR Band n30
10 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.31	0	0.0
	1	26	15.33		0.0
	1	50	15.45		0.0
	25	0	15.26	0-1	0.0
	25	14	15.38	0	0.0
	25	27	15.27	0-1	0.0
	50	0	15.36		0.0
DFT-s-OFDM 16QAM	1	1	15.23	0-1	0.0
CP-OFDM QPSK	1	1	15.26	0-1.5	0.0

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9.3.9 NR Band n41

Table 9-56
NR Band n41 Antenna 1 Measured Pmax for DSI = 3 (No Motion)

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	26.31	0	0.0
	1	137	26.61		0.0
	1	271	26.60		0.0
	135	0	25.52	0-1	1.0
	135	69	26.50	0	0.0
	135	138	25.59	0-1	1.0
	270	0	25.64		1.0
DFT-s-OFDM 16QAM	1	1	25.33	0-1	1.0
CP-OFDM QPSK	1	1	24.92	0-1.5	1.5

Table 9-57
NR Band n41 Antenna 1 Measured Plimit for DSI = 6 (Motion)

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.90	0	0.0
	1	137	15.09		0.0
	1	271	14.96		0.0
	135	0	15.03	0-1	0.0
	135	69	15.09	0	0.0
	135	138	15.01	0-1	0.0
	270	0	15.05		0.0
DFT-s-OFDM 16QAM	1	1	14.40	0-1	0.0
CP-OFDM QPSK	1	1	14.93	0-1.5	0.0

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Table 9-58
NR Band n41 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	26.13	0	0.0
	1	137	26.18		0.0
	1	271	26.17		0.0
	135	0	25.19	0-1	1.0
	135	69	26.27	0	0.0
	135	138	25.32	0-1	1.0
	270	0	25.28		1.0
DFT-s-OFDM 16QAM	1	1	25.19	0-1	1.0
CP-OFDM QPSK	1	1	24.73	0-1.5	1.5

Table 9-59
NR Band n41 Antenna 6 Measured Plimit for DSI = 6 (Motion)

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.09	0	0.0
	1	137	15.23		0.0
	1	271	15.15		0.0
	135	0	15.21	0-1	0.0
	135	69	15.17	0	0.0
	135	138	15.16	0-1	0.0
	270	0	15.16		0.0
DFT-s-OFDM 16QAM	1	1	15.43	0-1	0.0
CP-OFDM QPSK	1	1	15.23	0-1.5	0.0

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9.3.10 NR Band n48

Table 9-60
NR Band n48 Antenna 1 Measured Pmax for DSI = 3 (No Motion)

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.79	19.07	19.18	0	0.0
	1	53	19.56	19.03	19.09		0.0
	1	104	19.68	19.08	19.35		0.0
	50	0	18.78	18.24	18.20	0-1	1.0
	50	28	19.67	19.06	19.08	0	0.0
	50	56	18.74	18.11	18.14	0-1	1.0
	100	0	18.57	18.36	18.10		1.0
DFT-s-OFDM 16QAM	1	1	19.19	18.42	18.09	0-1	1.0
CP-OFDM QPSK	1	1	18.26	18.23	17.63	0-1.5	1.5

Table 9-61
NR Band n48 Antenna 1 Measured Plimit for DSI = 6 (Motion)

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	12.65	12.24	11.91	0	0.0
	1	53	12.54	12.09	11.85		0.0
	1	104	12.62	12.03	11.75		0.0
	50	0	12.46	12.09	12.03	0-1	0.0
	50	28	12.41	11.95	11.89	0	0.0
	50	56	12.41	11.88	11.76	0-1	0.0
	100	0	12.45	12.05	11.92		0.0
DFT-s-OFDM 16QAM	1	1	12.73	12.56	11.99	0-1	0.0
CP-OFDM QPSK	1	1	12.56	12.27	12.10	0-1.5	0.0

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Table 9-62
NR Band n48 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.56	19.09	19.03	0	0.0
	1	53	19.52	19.12	19.30		0.0
	1	104	19.69	19.51	19.02		0.0
	50	0	18.60	18.14	18.05	0-1	1.0
	50	28	19.58	19.11	19.08	0	0.0
	50	56	18.59	18.18	18.03	0-1	1.0
	100	0	18.65	18.05	18.02		1.0
DFT-s-OFDM 16QAM	1	1	18.62	18.14	18.41	0-1	1.0
CP-OFDM QPSK	1	1	18.19	17.80	17.93	0-1.5	1.5

Table 9-63
NR Band n48 Antenna 6 Measured Plimit for DSI = 6 (Motion)

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	13.00	12.61	12.70	0	0.0
	1	53	12.84	12.38	12.56		0.0
	1	104	12.82	12.41	12.34		0.0
	50	0	12.86	12.49	12.56	0-1	0.0
	50	28	12.83	12.36	12.37	0	0.0
	50	56	12.77	12.36	12.31	0-1	0.0
	100	0	12.84	12.42	12.46		0.0
DFT-s-OFDM 16QAM	1	1	12.95	12.75	12.64	0-1	0.0
CP-OFDM QPSK	1	1	12.88	12.61	12.55	0-1.5	0.0

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Table 9-64
NR Band n48 Antenna 7,8 Measured Pmax for DSI = 3 (No Motion)

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant 7	18.45	17.87	17.76
SRS #3 Ant 8	18.51	18.16	17.97

Table 9-65
NR Band n48 Antenna 7,8 Measured Plimit for DSI = 6 (Motion)

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant 7	12.99	12.65	12.72
SRS #3 Ant 8	13.39	13.12	12.96

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9.3.11 NR Band n77

Table 9-66
NR Band n77 Antenna 1 Measured Pmax for DSI = 3 (No Motion)

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	26.07	25.81	0	0.0
	1	137	25.61	26.17		0.0
	1	271	25.63	25.84		0.0
	135	0	24.81	24.84	0-1	1.0
	135	69	25.53	25.88	0	0.0
	135	138	24.57	24.82	0-1	1.0
	270	0	24.71	24.85		1.0
DFT-s-OFDM 16QAM	1	1	25.16	25.00	0-1	1.0
CP-OFDM QPSK	1	1	24.26	24.60	0-1.5	1.5

Table 9-67
NR Band n77 Antenna 1 Measured Plimit for DSI = 6 (Motion)

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	11.44	11.45	0	0.0
	1	137	11.11	11.42		0.0
	1	271	11.13	11.09		0.0
	135	0	11.34	11.41	0-1	0.0
	135	69	11.12	11.32	0	0.0
	135	138	11.03	11.25	0-1	0.0
	270	0	11.18	11.30		0.0
DFT-s-OFDM 16QAM	1	1	11.21	11.48	0-1	0.0
CP-OFDM QPSK	1	1	11.41	11.58	0-1.5	0.0

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Table 9-68
NR Band n77 Antenna 6 Measured Pmax for DSI = 3 (No Motion)

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	25.15	25.29	0	0.0
	1	137	25.04	25.22		0.0
	1	271	25.22	25.08		0.0
	135	0	24.21	24.23	0-1	1.0
	135	69	25.01	25.11	0	0.0
	135	138	24.13	24.02	0-1	1.0
	270	0	24.18	24.15		1.0
DFT-s-OFDM 16QAM	1	1	24.02	24.40	0-1	1.0
CP-OFDM QPSK	1	1	23.67	23.78	0-1.5	1.5

Table 9-69
NR Band n77 Antenna 6 Measured Plimit for DSI = 6 (Motion)

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	12.45	12.59	0	0.0
	1	137	12.34	12.54		0.0
	1	271	12.47	12.27		0.0
	135	0	12.38	12.65	0-1	0.0
	135	69	12.29	12.55	0	0.0
	135	138	12.24	12.30	0-1	0.0
	270	0	12.34	12.54		0.0
DFT-s-OFDM 16QAM	1	1	12.63	12.52	0-1	0.0
CP-OFDM QPSK	1	1	12.33	12.61	0-1.5	0.0

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Table 9-70
NR Band n77 Antenna 7,8 Measured Pmax for DSI = 3 (No Motion)

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant 7	25.96	26.12
SRS #3 Ant 8	23.49	23.87

Table 9-71
NR Band n77 Antenna 7,8 Measured Plimit for DSI = 6 (Motion)

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant 7	12.52	12.68
SRS #3 Ant 8	12.70	13.02

Table 9-72
NR Band n77 DoD Antenna 1 Measured Pmax for DSI = 3 (No Motion)

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	26.05	0	0.0
	1	137	26.13		0.0
	1	271	26.25		0.0
	135	0	25.34	0-1	1.0
	135	69	26.17	0	0.0
	135	138	25.28	0-1	1.0
	270	0	25.28		1.0
DFT-s-OFDM 16QAM	1	1	25.02	0-1	1.0
CP-OFDM QPSK	1	1	24.67	0-1.5	1.5

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Table 9-73
NR Band n77 DoD Antenna 1 Measured Plimit for DSI = 6 (Motion)

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.85	0	0.0
	1	137	11.91		0.0
	1	271	11.98		0.0
	135	0	12.04	0-1	0.0
	135	69	12.00	0	0.0
	135	138	11.97	0-1	0.0
	270	0	11.97		0.0
DFT-s-OFDM 16QAM	1	1	12.06	0-1	0.0
CP-OFDM QPSK	1	1	12.00	0-1.5	0.0

Table 9-74
NR Band n77 DoD Antenna 6 Measured Pmax for DSI = 3 (No Motion)

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	25.15	0	0.0
	1	137	25.29		0.0
	1	271	25.51		0.0
	135	0	24.38	0-1	1.0
	135	69	25.36	0	0.0
	135	138	24.51	0-1	1.0
	270	0	24.46		1.0
DFT-s-OFDM 16QAM	1	1	24.34	0-1	1.0
CP-OFDM QPSK	1	1	23.79	0-1.5	1.5

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Table 9-75
NR Band n77 DoD Antenna 6 Measured Plimit for DSI = 6 (Motion)

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.74	0	0.0
	1	137	12.87		0.0
	1	271	12.88		0.0
	135	0	12.85	0-1	0.0
	135	69	12.89	0	0.0
	135	138	12.91	0-1	0.0
	270	0	12.87		0.0
DFT-s-OFDM 16QAM	1	1	12.54	0-1	0.0
CP-OFDM QPSK	1	1	12.64	0-1.5	0.0

Table 9-76
NR Band n77 DoD Antenna 7,8 Measured Pmax for DSI = 3 (No Motion)

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz) Conducted Power [dBm]
SRS #2 Ant 7	26.61
SRS #3 Ant 8	24.22

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Table 9-77
NR Band n77 DoD Antenna 7,8 Measured Plimit for DSI = 6 (Motion)

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant 7	13.09
SRS #3 Ant 8	13.36



Figure 9-3
Power Measurement Setup – NR FDD

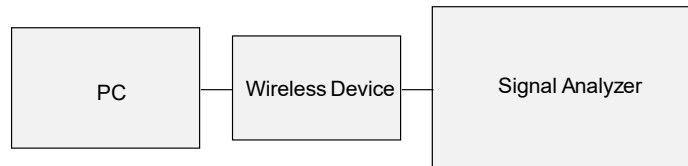


Figure 9-4
Power Measurement Setup – NR TDD

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/18/2026	750 Head	24.0	680	0.844	43.990	0.888	42.305	-4.95%	3.98%
			695	0.848	43.962	0.889	42.227	-4.61%	4.11%
			710	0.852	43.935	0.890	42.149	-4.27%	4.24%
			725	0.856	43.885	0.891	42.071	-3.93%	4.31%
			750	0.863	43.784	0.894	41.942	-3.47%	4.39%
			770	0.870	43.698	0.895	41.838	-2.79%	4.45%
			785	0.875	43.646	0.896	41.760	-2.34%	4.52%
05/21/2026	750 Head	24.1	800	0.879	43.598	0.897	41.682	-2.01%	4.60%
			680	0.856	42.439	0.888	42.305	-3.60%	0.32%
			695	0.862	42.449	0.889	42.227	-3.04%	0.53%
			710	0.867	42.449	0.890	42.149	-2.58%	0.71%
			725	0.872	42.412	0.891	42.071	-2.13%	0.81%
			750	0.877	42.301	0.894	41.942	-1.90%	0.86%
			770	0.882	42.213	0.895	41.838	-1.45%	0.90%
05/28/2026	750 Head	24.0	785	0.887	42.164	0.896	41.760	-1.00%	0.97%
			800	0.893	42.138	0.897	41.682	-0.45%	1.09%
			680	0.853	40.738	0.888	42.305	-3.94%	-3.70%
			695	0.857	40.699	0.889	42.227	-3.60%	-3.62%
			710	0.861	40.660	0.890	42.149	-3.26%	-3.53%
			725	0.865	40.615	0.891	42.071	-2.92%	-3.46%
			750	0.872	40.520	0.894	41.942	-2.46%	-3.39%
06/18/2026	750 Head	21.9	770	0.877	40.443	0.895	41.838	-2.01%	-3.33%
			785	0.881	40.383	0.896	41.760	-1.67%	-3.30%
			800	0.886	40.335	0.897	41.682	-1.23%	-3.23%
			680	0.866	43.894	0.888	42.305	-2.48%	3.76%
			695	0.870	43.861	0.889	42.227	-2.14%	3.87%
			710	0.876	43.824	0.890	42.149	-1.57%	3.97%
			725	0.881	43.779	0.891	42.071	-1.12%	4.06%
05/18/2026	835 Head	24.0	750	0.890	43.694	0.894	41.942	-0.45%	4.18%
			770	0.896	43.633	0.895	41.838	0.11%	4.29%
			785	0.900	43.594	0.896	41.760	0.45%	4.39%
			800	0.905	43.554	0.897	41.682	0.89%	4.49%
			815	0.884	43.560	0.898	41.594	-1.56%	4.73%
			820	0.885	43.543	0.899	41.578	-1.56%	4.73%
			835	0.889	43.529	0.900	41.500	-1.22%	4.89%
05/21/2026	835 Head	24.1	850	0.894	43.498	0.916	41.500	-2.40%	4.81%
			815	0.900	42.119	0.898	41.594	0.22%	1.26%
			820	0.902	42.111	0.899	41.578	0.33%	1.28%
			835	0.908	42.087	0.900	41.500	0.89%	1.41%
05/21/2026	835 Head	24.2	850	0.912	42.053	0.916	41.500	-0.44%	1.33%
			815	0.862	42.594	0.898	41.594	-4.01%	2.40%
			820	0.864	42.582	0.899	41.578	-3.89%	2.41%
			835	0.868	42.542	0.900	41.500	-3.56%	2.51%
05/28/2026	835 Head	24.0	850	0.872	42.495	0.916	41.500	-4.80%	2.40%
			815	0.890	40.292	0.898	41.594	-0.89%	-3.13%
			820	0.892	40.279	0.899	41.578	-0.78%	-3.12%
			835	0.897	40.243	0.900	41.500	-0.33%	-3.03%
06/18/2026	835 Head	21.9	850	0.902	40.206	0.916	41.500	-1.53%	-3.12%
			815	0.911	43.510	0.898	41.594	1.45%	4.61%
			820	0.913	43.496	0.899	41.578	1.56%	4.61%
			835	0.919	43.458	0.900	41.500	2.11%	4.72%
			850	0.925	43.424	0.916	41.500	0.98%	4.64%

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Table 10-2
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/18/2026	1750 Head	21.3	1700	1.335	41.166	1.343	40.145	-0.60%	2.54%
			1705	1.338	41.157	1.345	40.141	-0.52%	2.53%
			1710	1.341	41.148	1.348	40.136	-0.52%	2.52%
			1720	1.346	41.130	1.354	40.126	-0.59%	2.50%
			1745	1.363	41.099	1.368	40.087	-0.37%	2.52%
			1750	1.366	41.093	1.371	40.079	-0.36%	2.53%
			1770	1.379	41.072	1.383	40.047	-0.29%	2.56%
			1790	1.390	41.036	1.394	40.016	-0.29%	2.55%
05/21/2026	1750 Head	21.0	1700	1.289	41.164	1.343	40.145	-4.02%	2.54%
			1705	1.292	41.159	1.345	40.141	-3.94%	2.54%
			1710	1.294	41.154	1.348	40.136	-4.01%	2.54%
			1720	1.298	41.134	1.354	40.126	-4.14%	2.51%
			1745	1.311	41.080	1.368	40.087	-4.17%	2.48%
			1750	1.313	41.069	1.371	40.079	-4.23%	2.47%
			1770	1.325	41.037	1.383	40.047	-4.19%	2.47%
			1790	1.338	41.027	1.394	40.016	-4.02%	2.53%
06/15/2026	1750 Head	20.0	1700	1.313	40.888	1.343	40.145	-2.23%	1.85%
			1705	1.315	40.880	1.345	40.141	-2.23%	1.84%
			1710	1.318	40.875	1.348	40.136	-2.23%	1.84%
			1720	1.323	40.864	1.354	40.126	-2.29%	1.84%
			1745	1.335	40.826	1.368	40.087	-2.41%	1.84%
			1750	1.337	40.816	1.371	40.079	-2.48%	1.84%
			1770	1.346	40.776	1.383	40.047	-2.68%	1.82%
			1790	1.356	40.739	1.394	40.016	-2.73%	1.81%
06/24/2026	1750 Head	21.8	1700	1.330	39.843	1.343	40.145	-0.97%	-0.75%
			1705	1.332	39.835	1.345	40.141	-0.97%	-0.76%
			1710	1.335	39.828	1.348	40.136	-0.96%	-0.77%
			1720	1.340	39.805	1.354	40.126	-1.03%	-0.80%
			1745	1.354	39.754	1.368	40.087	-1.02%	-0.83%
			1750	1.357	39.741	1.371	40.079	-1.02%	-0.84%
			1770	1.369	39.702	1.383	40.047	-1.01%	-0.86%
			1790	1.379	39.665	1.394	40.016	-1.08%	-0.88%
06/30/2026	1750 Head	23.0	1700	1.288	41.357	1.343	40.145	-4.10%	3.02%
			1705	1.290	41.347	1.345	40.141	-4.09%	3.00%
			1710	1.293	41.340	1.348	40.136	-4.08%	3.00%
			1720	1.298	41.331	1.354	40.126	-4.14%	3.00%
			1745	1.312	41.340	1.368	40.087	-4.09%	3.13%
			1750	1.315	41.339	1.371	40.079	-4.06%	3.14%
			1770	1.325	41.332	1.383	40.047	-4.19%	3.21%
			1790	1.337	41.295	1.394	40.016	-4.09%	3.20%
05/18/2026	1900 Head	21.3	1850	1.423	40.907	1.400	40.000	1.64%	2.27%
			1860	1.430	40.890	1.400	40.000	2.14%	2.23%
			1880	1.443	40.855	1.400	40.000	3.07%	2.14%
			1900	1.455	40.826	1.400	40.000	3.93%	2.07%
			1905	1.458	40.820	1.400	40.000	4.14%	2.05%
			1910	1.461	40.817	1.400	40.000	4.36%	2.04%
			1920	1.467	40.806	1.400	40.000	4.79%	2.01%
			1850	1.372	40.947	1.400	40.000	-2.00%	2.37%
05/21/2026	1900 Head	21.0	1860	1.377	40.924	1.400	40.000	-1.64%	2.31%
			1880	1.388	40.880	1.400	40.000	-0.86%	2.20%
			1900	1.399	40.856	1.400	40.000	-0.07%	2.14%
			1905	1.402	40.854	1.400	40.000	0.14%	2.14%
			1910	1.405	40.854	1.400	40.000	0.36%	2.14%
			1920	1.410	40.851	1.400	40.000	0.71%	2.13%
			1850	1.374	40.962	1.400	40.000	-1.86%	2.41%
			1860	1.380	40.942	1.400	40.000	-1.43%	2.36%
06/04/2026	1900 Head	20.0	1880	1.390	40.900	1.400	40.000	-0.71%	2.25%
			1900	1.402	40.875	1.400	40.000	0.14%	2.19%
			1905	1.405	40.870	1.400	40.000	0.36%	2.17%
			1910	1.408	40.868	1.400	40.000	0.57%	2.17%
			1920	1.414	40.862	1.400	40.000	1.00%	2.16%
			1850	1.385	40.648	1.400	40.000	-1.07%	1.62%
			1860	1.391	40.630	1.400	40.000	-0.64%	1.58%
			1880	1.404	40.601	1.400	40.000	0.29%	1.50%
06/15/2026	1900 Head	20.0	1900	1.418	40.585	1.400	40.000	1.29%	1.46%
			1905	1.421	40.580	1.400	40.000	1.50%	1.45%
			1910	1.425	40.575	1.400	40.000	1.79%	1.44%
			1920	1.431	40.561	1.400	40.000	2.21%	1.40%
			1850	1.371	41.191	1.400	40.000	-2.07%	2.98%
			1860	1.376	41.182	1.400	40.000	-1.71%	2.96%
			1880	1.387	41.158	1.400	40.000	-0.93%	2.90%
			1900	1.398	41.125	1.400	40.000	-0.14%	2.81%
06/30/2026	1900 Head	23.0	1905	1.401	41.116	1.400	40.000	0.07%	2.79%
			1910	1.404	41.109	1.400	40.000	0.29%	2.77%
			1920	1.409	41.093	1.400	40.000	0.64%	2.73%
			1850	1.371	41.191	1.400	40.000	-2.07%	2.98%

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Table 10-3
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/21/2026	2450 Head	20.0	2300	1.641	41.260	1.670	39.500	-1.74%	4.46%
			2310	1.648	41.252	1.679	39.480	-1.85%	4.49%
			2320	1.655	41.242	1.687	39.460	-1.90%	4.52%
			2400	1.721	41.100	1.756	39.289	-1.99%	4.61%
			2450	1.766	41.037	1.800	39.200	-1.89%	4.69%
			2480	1.791	40.974	1.833	39.162	-2.29%	4.63%
			2500	1.807	40.941	1.855	39.136	-2.59%	4.61%
			2510	1.816	40.926	1.866	39.123	-2.68%	4.61%
			2535	1.838	40.900	1.893	39.092	-2.91%	4.62%
			2550	1.852	40.879	1.909	39.073	-2.99%	4.62%
			2560	1.861	40.862	1.920	39.060	-3.07%	4.61%
			2600	1.894	40.806	1.964	39.009	-3.56%	4.61%
			2650	1.933	40.722	2.018	38.945	-4.21%	4.56%
06/08/2026	2450 Head	19.0	2300	1.622	40.867	1.670	39.500	-2.87%	3.46%
			2310	1.631	40.857	1.679	39.480	-2.86%	3.49%
			2320	1.639	40.848	1.687	39.460	-2.85%	3.52%
			2400	1.706	40.700	1.756	39.289	-2.85%	3.59%
			2450	1.751	40.611	1.800	39.200	-2.72%	3.60%
			2480	1.780	40.556	1.833	39.162	-2.89%	3.56%
			2500	1.800	40.530	1.855	39.136	-2.96%	3.56%
			2510	1.809	40.516	1.866	39.123	-3.05%	3.56%
			2535	1.833	40.467	1.893	39.092	-3.17%	3.52%
			2550	1.847	40.441	1.909	39.073	-3.25%	3.50%
			2560	1.856	40.427	1.920	39.060	-3.33%	3.50%
			2600	1.892	40.366	1.964	39.009	-3.67%	3.48%
			2650	1.934	40.292	2.018	38.945	-4.16%	3.46%
			2680	1.956	40.251	2.051	38.907	-4.63%	3.45%
06/11/2026	2450 Head	19.9	2300	1.630	40.372	1.670	39.500	-2.40%	2.21%
			2310	1.639	40.362	1.679	39.480	-2.38%	2.23%
			2320	1.648	40.355	1.687	39.460	-2.31%	2.27%
			2400	1.713	40.229	1.756	39.289	-2.45%	2.39%
			2450	1.754	40.140	1.800	39.200	-2.56%	2.40%
			2480	1.780	40.093	1.833	39.162	-2.89%	2.38%
			2500	1.798	40.066	1.855	39.136	-3.07%	2.38%
			2510	1.806	40.048	1.866	39.123	-3.22%	2.36%
			2535	1.827	39.995	1.893	39.092	-3.49%	2.31%
			2550	1.841	39.967	1.909	39.073	-3.56%	2.29%
			2560	1.850	39.951	1.920	39.060	-3.65%	2.28%
			2600	1.885	39.879	1.964	39.009	-4.02%	2.23%
			2650	1.929	39.775	2.018	38.945	-4.41%	2.13%
			2680	1.954	39.725	2.051	38.907	-4.73%	2.10%
06/15/2026	2450 Head	19.0	2300	1.647	41.090	1.670	39.500	-1.38%	4.03%
			2310	1.655	41.082	1.679	39.480	-1.43%	4.06%
			2320	1.663	41.073	1.687	39.460	-1.42%	4.09%
			2400	1.721	40.910	1.756	39.289	-1.99%	4.13%
			2450	1.765	40.849	1.800	39.200	-1.94%	4.21%
			2480	1.787	40.785	1.833	39.162	-2.51%	4.14%
			2500	1.800	40.743	1.855	39.136	-2.96%	4.11%
			2510	1.808	40.721	1.866	39.123	-3.11%	4.08%
			2535	1.829	40.682	1.893	39.092	-3.38%	4.07%
			2550	1.844	40.665	1.909	39.073	-3.40%	4.07%
			2560	1.854	40.651	1.920	39.060	-3.44%	4.07%
			2600	1.886	40.585	1.964	39.009	-3.97%	4.04%
			2650	1.924	40.467	2.018	38.945	-4.66%	3.91%
			2680	1.952	40.420	2.051	38.907	-4.83%	3.89%

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Table 10-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
06/17/2026	2450 Head	19.9	2300	1.618	40.546	1.670	39.500	-3.11%	2.65%
			2310	1.626	40.535	1.679	39.480	-3.16%	2.67%
			2320	1.633	40.530	1.687	39.460	-3.20%	2.71%
			2400	1.693	40.430	1.756	39.289	-3.59%	2.90%
			2450	1.733	40.364	1.800	39.200	-3.72%	2.97%
			2480	1.755	40.310	1.833	39.162	-4.26%	2.93%
			2500	1.772	40.283	1.855	39.136	-4.47%	2.93%
			2510	1.780	40.271	1.866	39.123	-4.61%	2.93%
			2535	1.802	40.243	1.893	39.092	-4.81%	2.94%
06/17/2026	2450 Head	20.4	2550	1.815	40.223	1.909	39.073	-4.92%	2.94%
			2300	1.634	41.282	1.670	39.500	-2.16%	4.51%
			2310	1.643	41.279	1.679	39.480	-2.14%	4.56%
			2320	1.650	41.274	1.687	39.460	-2.19%	4.60%
			2400	1.709	41.151	1.756	39.289	-2.68%	4.74%
			2450	1.751	41.108	1.800	39.200	-2.72%	4.87%
			2480	1.773	41.041	1.833	39.162	-3.27%	4.80%
			2500	1.789	41.002	1.855	39.136	-3.56%	4.77%
			2510	1.798	40.989	1.866	39.123	-3.64%	4.77%
			2535	1.821	40.967	1.893	39.092	-3.80%	4.80%
			2550	1.835	40.952	1.909	39.073	-3.88%	4.81%
			2560	1.843	40.935	1.920	39.060	-4.01%	4.80%
			2600	1.874	40.852	1.964	39.009	-4.58%	4.72%
06/22/2026	2450 Head	19.9	2650	1.919	40.772	2.018	38.945	-4.91%	4.69%
			2300	1.714	40.303	1.670	39.500	2.63%	2.03%
			2310	1.722	40.303	1.679	39.480	2.56%	2.08%
			2320	1.729	40.305	1.687	39.460	2.49%	2.14%
			2400	1.788	40.153	1.756	39.289	1.82%	2.20%
			2450	1.826	40.132	1.800	39.200	1.44%	2.38%
			2480	1.843	40.024	1.833	39.162	0.55%	2.20%
			2500	1.861	39.982	1.855	39.136	0.32%	2.16%
			2510	1.872	39.977	1.866	39.123	0.32%	2.18%
			2535	1.897	39.985	1.893	39.092	0.21%	2.28%
			2550	1.908	39.975	1.909	39.073	-0.05%	2.31%
			2560	1.913	39.955	1.920	39.060	-0.36%	2.29%
			2600	1.939	39.823	1.964	39.009	-1.27%	2.09%
07/06/2026	2450 Head	20.1	2650	1.989	39.781	2.018	38.945	-1.44%	2.15%
			2680	2.010	39.743	2.051	38.907	-2.00%	2.15%
			2300	1.674	38.381	1.670	39.500	0.24%	-2.83%
			2310	1.681	38.367	1.679	39.480	0.12%	-2.82%
			2320	1.689	38.356	1.687	39.460	0.12%	-2.80%
			2400	1.748	38.232	1.756	39.289	-0.46%	-2.69%
			2450	1.787	38.142	1.800	39.200	-0.72%	-2.70%
			2480	1.812	38.098	1.833	39.162	-1.15%	-2.72%
			2500	1.826	38.073	1.855	39.136	-1.56%	-2.72%
			2510	1.832	38.054	1.866	39.123	-1.82%	-2.73%
			2535	1.848	38.001	1.893	39.092	-2.38%	-2.79%
			2550	1.860	37.972	1.909	39.073	-2.57%	-2.82%
			2560	1.868	37.952	1.920	39.060	-2.71%	-2.84%
			2600	1.903	37.905	1.964	39.009	-3.11%	-2.83%
			2650	1.938	37.806	2.018	38.945	-3.96%	-2.92%
			2680	1.959	37.750	2.051	38.907	-4.49%	-2.97%

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Table 10-5
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/18/2026	3600 Head	19.0	3300	2.727	38.801	2.708	38.157	0.70%	1.69%
			3350	2.768	38.684	2.759	38.100	0.33%	1.53%
			3450	2.879	38.418	2.861	37.986	0.63%	1.14%
			3500	2.921	38.375	2.913	37.929	0.27%	1.18%
			3550	2.978	38.256	2.964	37.871	0.47%	1.02%
			3560	2.992	38.230	2.974	37.860	0.61%	0.98%
			3600	3.021	38.142	3.015	37.814	0.20%	0.87%
			3650	3.082	38.034	3.066	37.757	0.52%	0.73%
			3690	3.115	37.987	3.107	37.711	0.26%	0.73%
			3700	3.142	37.920	3.117	37.700	0.80%	0.58%
			3750	3.196	38.000	3.169	37.643	0.85%	0.95%
			3900	3.352	37.578	3.323	37.471	0.87%	0.29%
			3930	3.388	37.554	3.353	37.437	1.04%	0.31%
			4100	3.559	37.153	3.528	37.243	0.88%	-0.24%
			4150	3.646	37.017	3.579	37.186	1.87%	-0.45%
06/01/2026	3600 Head	19.0	3300	2.621	39.856	2.708	38.157	-3.21%	4.45%
			3350	2.634	39.760	2.759	38.100	-4.53%	4.36%
			3450	2.751	39.495	2.861	37.986	-3.84%	3.97%
			3500	2.784	39.440	2.913	37.929	-4.43%	3.98%
			3550	2.854	39.380	2.964	37.871	-3.71%	3.98%
			3560	2.869	39.379	2.974	37.860	-3.53%	4.01%
			3600	2.886	39.251	3.015	37.814	-4.28%	3.80%
			3650	2.954	39.201	3.066	37.757	-3.65%	3.82%
			3690	2.981	39.112	3.107	37.711	-4.06%	3.72%
			3700	2.990	39.056	3.117	37.700	-4.07%	3.60%
			3750	3.042	39.119	3.169	37.643	-4.01%	3.92%
			3900	3.191	38.824	3.323	37.471	-3.97%	3.61%
			3930	3.209	38.805	3.353	37.437	-4.29%	3.65%
			4100	3.408	38.460	3.528	37.243	-3.40%	3.27%
			4150	3.498	38.341	3.579	37.186	-2.26%	3.11%
06/15/2026	3600 Head	19.0	3300	2.621	39.742	2.708	38.157	-3.21%	4.15%
			3350	2.648	39.586	2.759	38.100	-4.02%	3.90%
			3450	2.747	39.446	2.861	37.986	-3.98%	3.84%
			3500	2.794	39.269	2.913	37.929	-4.09%	3.53%
			3550	2.857	39.248	2.964	37.871	-3.61%	3.64%
			3560	2.861	39.238	2.974	37.860	-3.80%	3.64%
			3600	2.881	39.142	3.015	37.814	-4.44%	3.51%
			3650	2.948	39.013	3.066	37.757	-3.85%	3.33%
			3690	2.987	39.000	3.107	37.711	-3.86%	3.42%
			3700	2.990	38.989	3.117	37.700	-4.07%	3.42%
			3750	3.023	38.846	3.169	37.643	-4.61%	3.20%
			3900	3.187	38.558	3.323	37.471	-4.09%	2.90%
			3930	3.241	38.544	3.353	37.437	-3.34%	2.96%
			4100	3.385	38.310	3.528	37.243	-4.05%	2.86%
			4150	3.446	38.107	3.579	37.186	-3.72%	2.48%
06/22/2026	3600 Head	19.0	3300	2.637	39.814	2.708	38.157	-2.62%	4.34%
			3350	2.690	39.735	2.759	38.100	-2.50%	4.29%
			3450	2.788	39.513	2.861	37.986	-2.55%	4.02%
			3500	2.840	39.411	2.913	37.929	-2.51%	3.91%
			3550	2.886	39.320	2.964	37.871	-2.63%	3.83%
			3560	2.896	39.301	2.974	37.860	-2.62%	3.81%
			3600	2.940	39.221	3.015	37.814	-2.49%	3.72%
			3650	2.991	39.135	3.066	37.757	-2.45%	3.65%
			3690	3.031	39.052	3.107	37.711	-2.45%	3.56%
			3700	3.043	39.029	3.117	37.700	-2.37%	3.53%
			3750	3.097	38.953	3.169	37.643	-2.27%	3.48%
			3900	3.254	38.685	3.323	37.471	-2.08%	3.24%
			3930	3.287	38.584	3.353	37.437	-1.97%	3.06%
			4100	3.480	38.275	3.528	37.243	-1.36%	2.77%
			4150	3.538	38.172	3.579	37.186	-1.15%	2.65%

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

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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 the SAR System Validation Appendix.

Table 10-6
System Verification Results

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
O	750	Head	05/18/2026	22.2	22.0	0.20	1054	7488	1415	1.74	8.68	8.70	0.23%	1.19	5.61	5.95	6.06%	N/A	N/A	N/A	N/A
M	750	Head	05/21/2026	23.5	22.2	0.20	1161	7406	1677	1.69	8.36	8.45	1.08%	1.15	5.41	5.75	6.28%	N/A	N/A	N/A	N/A
O	750	Head	05/28/2026	23.3	23.0	0.20	1054	7488	1415	1.64	8.68	8.20	-5.53%	1.11	5.61	5.55	-1.07%	N/A	N/A	N/A	N/A
G	750	Head	06/18/2026	21.7	21.3	0.20	1161	7570	859	1.71	8.36	8.55	2.27%	1.13	5.41	5.65	4.44%	N/A	N/A	N/A	N/A
O	835	Head	05/18/2026	22.2	22.0	0.20	46047	7488	1415	1.89	9.44	9.45	0.11%	1.21	6.09	6.05	-0.66%	N/A	N/A	N/A	N/A
O	835	Head	05/21/2026	22.8	22.5	0.20	46047	7488	1415	1.81	9.44	9.05	-4.13%	1.24	6.09	6.20	1.81%	N/A	N/A	N/A	N/A
M	835	Head	05/21/2026	23.5	22.2	0.20	46133	7406	1677	2.04	9.94	10.20	2.62%	1.29	6.49	6.45	-0.62%	N/A	N/A	N/A	N/A
O	835	Head	05/28/2026	23.3	23.0	0.20	46047	7488	1415	1.89	9.44	9.45	0.11%	1.28	6.09	6.40	5.09%	N/A	N/A	N/A	N/A
G	835	Head	06/18/2026	21.7	21.3	0.20	46047	7570	859	1.96	9.44	9.80	3.81%	1.28	6.09	6.40	5.09%	N/A	N/A	N/A	N/A
R	1750	Head	05/18/2026	20.9	21.3	0.10	1148	7417	1639	3.90	36.90	39.00	5.69%	2.09	19.60	20.90	6.63%	N/A	N/A	N/A	N/A
R	1750	Head	05/21/2026	20.9	21.0	0.10	1150	7417	1639	3.90	36.40	39.00	7.14%	2.09	19.40	20.90	7.73%	N/A	N/A	N/A	N/A
R	1750	Head	06/15/2026	20.5	20.0	0.10	1148	7417	1639	3.41	36.90	34.10	-7.59%	1.82	19.60	18.20	-7.14%	N/A	N/A	N/A	N/A
G	1750	Head	06/24/2026	22.1	21.5	0.10	1150	7570	859	3.91	36.40	39.10	7.42%	2.10	19.40	21.00	8.25%	N/A	N/A	N/A	N/A
O	1750	Head	06/30/2026	23.1	22.0	0.10	1148	7488	1415	3.69	36.90	36.90	0.00%	2.01	19.60	20.10	2.55%	N/A	N/A	N/A	N/A
R	1900	Head	05/18/2026	20.9	21.3	0.10	50148	7417	1639	4.15	39.60	41.50	4.80%	2.15	20.90	21.50	2.87%	N/A	N/A	N/A	N/A
R	1900	Head	05/21/2026	20.9	21.0	0.10	50148	7417	1639	3.83	39.60	38.30	-3.28%	1.99	20.90	19.90	-4.78%	N/A	N/A	N/A	N/A
R	1900	Head	06/04/2026	20.9	20.5	0.10	50148	7417	1639	4.27	39.60	42.70	7.83%	2.22	20.90	22.20	6.22%	N/A	N/A	N/A	N/A
R	1900	Head	06/15/2026	20.5	20.0	0.10	50080	7417	1639	3.81	40.20	38.10	-5.22%	1.97	21.20	19.70	-7.08%	N/A	N/A	N/A	N/A
O	1900	Head	06/30/2026	23.1	22.0	0.10	50080	7488	1415	4.10	40.20	41.00	1.99%	2.17	21.20	21.70	2.36%	N/A	N/A	N/A	N/A
N	2300	Head	05/21/2026	20.2	20.5	0.10	1116	7670	1449	4.44	49.20	44.40	-9.76%	2.19	23.90	21.90	-8.37%	N/A	N/A	N/A	N/A
N	2300	Head	06/17/2026	21.3	19.9	0.10	1073	7670	1449	4.91	48.60	49.10	1.03%	2.39	23.50	23.90	1.70%	N/A	N/A	N/A	N/A
O	2300	Head	06/17/2026	21.3	20.4	0.10	1073	7488	1415	5.06	48.60	50.60	4.12%	2.47	23.50	24.70	5.11%	N/A	N/A	N/A	N/A
L	2300	Head	07/06/2026	21.8	20.2	0.10	1073	7539	1450	5.09	48.60	50.90	4.73%	2.44	23.50	24.40	3.83%	N/A	N/A	N/A	N/A
O	2450	Head	06/08/2026	21.9	20.8	0.10	719	7488	1415	5.24	52.20	52.40	0.38%	2.48	24.60	24.80	0.81%	N/A	N/A	N/A	N/A
O	2450	Head	06/11/2026	21.6	19.9	0.10	797	7488	1415	5.29	52.60	52.90	0.57%	2.51	24.80	25.10	1.21%	N/A	N/A	N/A	N/A
O	2600	Head	05/08/2026	21.9	20.8	0.10	1071	7488	1415	5.66	56.50	56.60	0.18%	2.60	25.40	26.00	2.36%	N/A	N/A	N/A	N/A
O	2600	Head	06/11/2026	21.6	19.9	0.10	1071	7488	1415	5.87	56.50	58.70	3.89%	2.70	25.40	27.00	6.30%	N/A	N/A	N/A	N/A
O	2600	Head	06/15/2026	20.7	19.0	0.10	1071	7488	1415	5.43	56.50	54.30	-3.89%	2.49	25.40	24.90	-1.97%	N/A	N/A	N/A	N/A
L	2600	Head	06/22/2026	20.0	19.9	0.10	1071	7539	1450	5.76	56.50	57.60	1.95%	2.59	25.40	25.90	1.97%	N/A	N/A	N/A	N/A
J	3500	Head	05/18/2026	21.2	20.7	0.10	1097	7659	1272	6.40	64.00	64.00	0.00%	2.47	24.30	24.70	1.65%	N/A	N/A	N/A	N/A
J	3500	Head	06/01/2026	22.8	21.0	0.10	1097	7659	1272	6.04	64.00	60.40	-5.63%	2.35	24.30	23.50	-3.29%	N/A	N/A	N/A	N/A
J	3500	Head	06/15/2026	22.0	20.7	0.10	1097	7659	1272	6.16	64.00	61.60	-3.75%	2.39	24.30	23.90	-1.65%	N/A	N/A	N/A	N/A
J	3500	Head	06/22/2026	22.5	20.5	0.10	1097	7659	1272	6.33	64.00	63.30	-1.09%	2.45	24.30	24.50	0.82%	N/A	N/A	N/A	N/A
J	3700	Head	05/18/2026	21.2	20.7	0.10	1067	7659	1272	6.77	68.40	67.70	-1.02%	2.52	25.20	25.20	0.00%	N/A	N/A	N/A	N/A
J	3700	Head	06/01/2026	22.8	21.0	0.10	1067	7659	1272	6.24	68.40	62.40	-8.77%	2.34	25.20	23.40	-7.14%	N/A	N/A	N/A	N/A
J	3700	Head	06/15/2026	22.0	20.7	0.10	1067	7659	1272	6.66	68.40	66.60	-2.63%	2.48	25.20	24.80	-1.59%	N/A	N/A	N/A	N/A
J	3700	Head	06/22/2026	22.5	20.5	0.10	1067	7659	1272	6.79	68.40	67.90	-0.73%	2.53	25.20	25.30	0.40%	N/A	N/A	N/A	N/A
J	3900	Head	06/15/2026	22.0	20.7	0.10	1073	7659	1272	6.90	69.50	69.00	-0.72%	2.45	24.30	24.50	0.82%	N/A	N/A	N/A	N/A
J	3900	Head	06/22/2026	22.5	20.5	0.10	1056	7659	1272	7.25	68.20	72.50	6.30%	2.57	23.80	25.70	7.98%	N/A	N/A	N/A	N/A

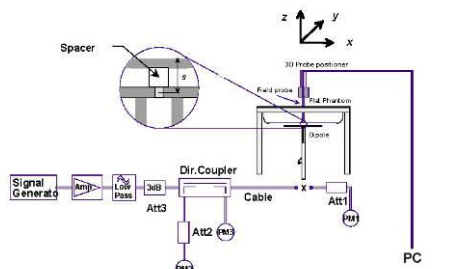


Figure 10-1
System Verification Setup Diagram



Figure 10-2
System Verification Setup Photo

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11 SAR DATA SUMMARY

11.1 UMTS 850 Standalone SAR

Table 11-1
UMTS 850 Antenna 2 – No Motion| Plot A1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EFS P1mit [dBm]
Body	UMTS 850	RMC	2	78TC32609	1:1	0.00	826.40	4132	25.0	24.29	Back	25	0.349	1.178	0.411	0.637	0.358		28.8		
Body	UMTS 850	RMC	2	78TC32609	1:1	0.02	826.40	4132	25.0	24.29	Top	25	0.313	1.178	0.369	0.571	0.357		29.3		
Body	UMTS 850	RMC	2	78TC32609	1:1	0.02	846.60	4233	25.0	24.33	Bottom	0	0.018	1.167	0.021	0.033	0.021	Plot	41.7	28.8	26.9
Body	UMTS 850	RMC	2	78TC32609	1:1	-0.02	826.40	4132	25.0	24.29	Right	25	0.037	1.178	0.044	0.067	0.042		38.6		
Body	UMTS 850	RMC	2	78TC32609	1:1	-0.03	826.40	4132	25.0	24.29	Left	25	0.005	1.178	0.011	0.016	0.010		44.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body Spatial Peak 1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																					

Table 11-2
UMTS 850 Antenna 2 – Motion| Plot A2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EFS P1mit [dBm]	
Body	UMTS 850	RMC	2	78TC32609	1:1	-0.01	826.40	4132	19.8	19.43	Back	5	0.716	1.089	0.780	0.780	0.488	Plot	20.8			
Body	UMTS 850	RMC	2	78TC32609	1:1	0.00	826.40	4132	19.8	19.43	Top	5	0.618	1.089	0.673	0.673	0.421		21.5			
Body	UMTS 850	RMC	2	78TC32609	1:1	0.07	826.40	4132	19.8	19.43	Bottom	5	0.011	1.089	0.012	0.012	0.008	Plot	39.0	20.8	18.8	
Body	UMTS 850	RMC	2	78TC32609	1:1	-0.03	826.40	4132	19.8	19.43	Right	5	0.120	1.089	0.131	0.131	0.082		28.6			
Body	UMTS 850	RMC	2	78TC32609	1:1	0.10	826.40	4132	19.8	19.43	Left	5	0.072	1.089	0.078	0.078	0.049		30.8			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
													Body									
													1.6 W/kg (mW/g)									
													averaged over 1 gram									

11.2 UMTS 1750 Standalone SAR

Table 11-3
UMTS 1750 Antenna 6 – No Motion| Plot A3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	UMTS 1750	RMC	6	78TC32609	1:1	0.03	1712.40	1312	25.0	24.77	Back	25	0.122	1.054	0.129	0.536	0.335		33.9		
Body	UMTS 1750	RMC	6	78TC32609	1:1	0.07	1712.40	1312	25.0	24.77	Top	25	0.224	1.054	0.236	0.984	0.615		31.2		
Body	UMTS 1750	RMC	6	78TC32609	1:1	0.01	1712.40	1312	25.0	24.77	Bottom	0	0.007	1.054	0.007	0.011	0.019	Plot	46.3	31.2	31.2
Body	UMTS 1750	RMC	6	78TC32609	1:1	0.03	1712.40	1312	25.0	24.77	Right	25	0.019	1.054	0.020	0.084	0.053		41.9		
Body	UMTS 1750	RMC	6	78TC32609	1:1	0.03	1712.40	1312	25.0	24.77	Left	25	0.086	1.054	0.091	0.378	0.236		35.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body			
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)			
																		averaged over 1 gram			

Table 11-4
UMTS 1750 Antenna 6 – Motion| Plot A4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	P1mit (dBm)	Overall P1mit (dBm)	EFS P1mit (dBm)
Body	UMTS 1750	RMC	6	4TD0D2609	1:1	0.13	1712.40	1312	18.2	17.36	Back	5	0.423	1.213	0.513	0.513	0.321	Plot	21.0		
Body	UMTS 1750	RMC	6	78TC32609	1:1	-0.02	1712.40	1312	18.2	17.36	Top	5	0.370	1.213	0.449	0.449	0.281		21.6		
Body	UMTS 1750	RMC	6	78TC32609	1:1	0.01	1712.40	1312	18.2	17.36	Bottom	5	0.006	1.213	0.007	0.007	0.004		39.5	21.0	17.2
Body	UMTS 1750	RMC	6	78TC32609	1:1	-0.12	1712.40	1312	18.2	17.36	Right	5	0.013	1.213	0.016	0.016	0.010		36.2		
Body	UMTS 1750	RMC	6	78TC32609	1:1	-0.05	1712.40	1312	18.2	17.36	Left	5	0.254	1.213	0.308	0.308	0.193		23.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body			
Spatial Peak																		1.6 W/kg (mW/g)			
Uncontrolled Exposure/General Population																		averaged over 1 gram			

11.3 UMTS 1900 Standalone SAR

Table 11-5
UMTS 1900 Antenna 6 – No Motion| Plot A5

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Body	UMTS 1900	RMC	6	78TC32609	1:1	-0.05	1852.40	9262	25.0	24.79	Back	25	0.217	1.050	0.228	0.907	0.567		31.4		
Body	UMTS 1900	RMC	6	78TC32609	1:1	-0.01	1852.40	9262	25.0	24.79	Top	25	0.289	1.050	0.251	0.999	0.624	Plot	31.0		
Body	UMTS 1900	RMC	6	78TC32609	1:1	0.09	1852.40	9262	25.0	24.79	Bottom	0	0.008	1.050	0.008	0.033	0.021	Plot	45.7	31.0	31.0
Body	UMTS 1900	RMC	6	78TC32609	1:1	0.03	1852.40	9262	25.0	24.79	Right	25	0.034	1.050	0.036	0.142	0.089		39.4		
Body	UMTS 1900	RMC	6	78TC32609	1:1	-0.03	1852.40	9262	25.0	24.79	Left	25	0.127	1.050	0.133	0.531	0.332		33.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram			

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Table 11-6
UMTS 1900 Antenna 6 – Motion| Plot A6

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body	UMTS 1900	RMC	6	4TD8D2609	1:1	0.03	1852.40	9262	17.7	16.51	Back	5	0.439	1.315	0.577	0.577	0.361	Plot	20.0		
Body	UMTS 1900	RMC	6	78TC32609	1:1	-0.04	1852.40	9262	17.7	16.51	Top	5	0.363	1.315	0.476	0.476	0.298			20.0	
Body	UMTS 1900	RMC	6	78TC32609	1:1	0.06	1852.40	9262	17.7	16.51	Bottom	5	0.010	1.315	0.013	0.013	0.008			36.5	
Body	UMTS 1900	RMC	6	78TC32609	1:1	0.05	1852.40	9262	17.7	16.51	Right	5	0.084	1.315	0.110	0.110	0.069			27.2	
Body	UMTS 1900	RMC	6	78TC32609	1:1	-0.02	1852.40	9262	17.7	16.51	Left	5	0.297	1.315	0.391	0.391	0.244			21.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram										

11.4 LTE Band 71 Standalone SAR

Table 11-7
LTE Band 71 Antenna 2 – No Motion| Plot A7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dbm]	Conducted Power [dbm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dbm]	Overall Plimt [dbm]	EFS Plimt [dbm]		
Body	LTE Band 71	20	QPSK	2	4TD8D2609	1:1	-0.06	680.50	133297	0.0	25.0	23.83	1	0	Back	25	0.021	1.309	0.027	0.044	0.403		40.6				
Body	LTE Band 71	20	QPSK	2	4TD8D2609	1:1	0.05	680.50	133297	0.0	25.0	23.83	1	0	Top	25	0.029	1.309	0.038	0.050	0.158		38.2				
Body	LTE Band 71	20	QPSK	2	7C94R2609	1:1	0.06	680.50	133297	0.0	25.0	23.83	1	0	Bottom	0	0.005	1.309	0.007	0.153	0.096	Plot	46.8				
Body	LTE Band 71	20	QPSK	2	7C94R2609	1:1	-0.20	680.50	133297	1.0	24.0	22.91	50	0	Bottom	0	0.006	1.285	0.008	0.228	0.143		45.1				
Body	LTE Band 71	20	QPSK	2	4TD8D2609	1:1	0.01	680.50	133297	0.0	25.0	23.83	1	0	Right	25	0.011	1.309	0.016	0.368	0.120		41.0				
Body	LTE Band 71	20	QPSK	2	4TD8D2609	1:1	0.04	680.50	133297	0.0	25.0	23.83	1	0	Left	25	0.003	1.309	0.004	0.092	0.058		49.0				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram															

Table 11-8
LTE Band 71 Antenna 2 – Motion| Plot A8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]		
Body	LTE Band 71	20	QPSK	2	78TBC2609	1:1	0.08	680.50	133297	0.0	19.0	18.73	1	0	Back	5	0.387	1.064	0.412	0.412	0.258	Plot	22.8	22.8	18.0		
Body	LTE Band 71	20	QPSK	2	4TD8D2609	1:1	-0.08	680.50	133297	0.0	19.0	18.68	50	25	Top	5	0.009	1.076	0.016	0.016	0.004		42.4				
Body	LTE Band 71	20	QPSK	2	4TD8D2609	1:1	0.07	680.50	133297	0.0	19.0	18.73	1	0	Bottom	5	0.009	1.064	0.010	0.010	0.006		39.1				
Body	LTE Band 71	20	QPSK	2	78TC12609	1:1	0.00	680.50	133297	0.0	19.0	18.73	1	0	Right	5	0.040	1.064	0.041	0.043	0.037		32.7				
Body	LTE Band 71	20	QPSK	2	78TC12609	1:1	0.01	680.50	133297	0.0	19.0	18.73	1	0	Left	5	0.018	1.064	0.020	0.020	0.013		33.3				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

11.5 LTE Band 12 Standalone SAR

Table 11-9
LTE Band 12 Antenna 2 – No Motion| Plot A9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body	LTE Band 12	10	QPSK	2	78TD32609	1:1	0.00	707.50	23095	0.0	25.0	24.12	1	25	Back	25	0.290	1.225	0.355	0.646	0.404	Plot	29.4	29.4	27.6
Body	LTE Band 12	10	QPSK	2	78TD32609	1:1	-0.02	707.50	23095	0.0	25.0	24.12	1	25	Top	25	0.015	1.225	0.016	0.033	0.021		42.3		
Body	LTE Band 12	10	QPSK	2	7C94R2609	1:1	0.16	707.50	23095	0.0	25.0	24.20	1	0	Bottom	0	0.003	1.203	0.004	0.007	0.004	49.4			
Body	LTE Band 12	10	QPSK	2	7C94R2609	1:1	0.06	707.50	23095	1.0	24.0	23.14	25	25	Bottom	0	0.003	1.219	0.004	0.008	0.005	48.3			
Body	LTE Band 12	10	QPSK	2	78TD32609	1:1	0.00	707.50	23095	0.0	25.0	24.12	1	25	Right	25	0.004	1.225	0.005	0.009	0.006	45.0			
Body	LTE Band 12	10	QPSK	2	78TD32609	1:1	0.05	707.50	23095	0.0	25.0	24.12	1	25	Left	25	0.001	1.225	0.038	0.069	0.043	39.2			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak												Body 1.6 W/kg (mW/g) averaged over 1 gram													
Uncontrolled Exposure/General Population																									

Table 11-10
LTE Band 12 Antenna 2 – Motion| Plot A10

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]	
Body	LTE Band 12	10	QPSK	2	78TB2609	1:1	-0.03	707.50	23095	0.0	19.5	19.12	25	25	Back	5	0.399	1.091	0.435	0.435	0.272	Plot	23.1			
Body	LTE Band 12	10	QPSK	2	4TD8D2609	1:1	0.05	707.50	23095	0.0	19.5	19.11	1	25	Top	5	0.356	1.021	0.388	0.388	0.243		23.6			
Body	LTE Band 12	10	QPSK	2	4TD8D2609	1:1	-0.10	707.50	23095	0.0	19.5	19.09	1	25	Bottom	5	0.008	1.099	0.009	0.009	0.006		40.0			
Body	LTE Band 12	10	QPSK	2	78TC12609	1:1	0.05	707.50	23095	0.0	19.5	19.09	1	25	Right	5	0.023	1.099	0.025	0.025	0.016		35.4			
Body	LTE Band 12	10	QPSK	2	78TC12609	1:1	0.06	707.50	23095	0.0	19.5	19.09	1	25	Left	5	0.011	1.099	0.012	0.012	0.008		35.6			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

FCC ID: C3K2114	RF Exposure Part 1 Test Report					Approved by: Technical Manager
Document S/N: 1M2606300059-01.C3K (Rev1)	DUT Type: Wireless Module	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo				Page 82 of 103

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11.9 LTE Band 26 Standalone SAR

Table 11-17
LTE Band 26 Antenna 2 – No Motion| Plot A17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body	LTE Band 26	15	QPSK	2	4TDR02609	1:1	-0.08	831.50	26865	0.0	25.0	23.99	1	0	Back	25	0.026	1.262	0.096	0.648	0.405		34.7	33.3	
Body	LTE Band 26	15	QPSK	2	4TDR02609	1:1	-0.03	831.50	26865	0.0	25.0	23.99	1	0	Top	25	0.081	1.262	0.105	0.708	0.443				
Body	LTE Band 26	15	QPSK	2	4TDR02609	1:1	-0.02	831.50	26865	0.0	25.0	23.99	1	0	Bottom	0	0.013	1.262	0.016	0.111	0.007	Plot			
Body	LTE Band 26	15	QPSK	2	4TDR02609	1:1	0.10	831.50	26865	1.0	24.0	23.03	36	87	Bottom	0	0.008	1.250	0.010	0.085	0.053				
Body	LTE Band 26	15	QPSK	2	4TDR02609	1:1	-0.01	831.50	26865	0.0	25.0	23.99	1	0	Right	25	0.024	1.262	0.030	0.205	0.128				
Body	LTE Band 26	15	QPSK	2	4TDR02609	1:1	0.05	831.50	26865	0.0	25.0	23.99	1	0	Left	25	0.003	1.262	0.004	0.026	0.016				
ANS/IEEE C95.1.1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 11-18
LTE Band 26 Antenna 2 – Motion| Plot A18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]	
Body	LTE Band 26	15	QPSK	2	78TB02609	1:1	-0.01	831.50	26865	0.0	19.8	19.17	1	0	Back	5	0.449	1.156	0.519	0.519	0.324		22.6	22.3	18.8	
Body	LTE Band 26	15	QPSK	2	47DQ2609	1:1	0.05	831.50	26865	0.0	19.8	19.17	1	0	Top	5	0.427	1.156	0.551	0.551	0.344	Plot	22.3			
Body	LTE Band 26	15	QPSK	2	47DQ2609	1:1	0.02	831.50	26865	0.0	19.8	18.14	36	37	Bottom	5	0.006	1.164	0.007	0.007	0.004		41.3			
Body	LTE Band 26	15	QPSK	2	78TB02609	1:1	-0.13	831.50	26865	0.0	19.8	19.17	1	0	Right	5	0.052	1.156	0.037	0.037	0.023		34.1			
Body	LTE Band 26	15	QPSK	2	78TB02609	1:1	-0.02	831.50	26865	0.0	19.8	19.14	36	37	Left	5	0.027	1.164	0.031	0.031	0.019		34.8			
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

11.10 LTE Band 66 Standalone SAR

Table 11-19
LTE Band 66 Antenna 6 – No Motion| Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body	LTE Band 66	20	QPSK	6	N/A	78TB02609	1:1	-0.02	1735.00	132572	0.0	25.5	23.80	1	0	Back	25	0.229	1.479	0.339	0.891	0.557		30.2	29.7	
Body	LTE Band 66	20	QPSK	6	N/A	78TB02609	1:1	0.03	1745.00	132572	0.0	25.5	24.28	1	0	Top	25	0.287	1.324	0.380	1.000	0.625				
Body	LTE Band 66	10	QPSK	6	N/A	78TB02609	1:1	0.07	1735.00	132022	0.0	25.5	23.88	1	49	Bottom	0	0.082	1.482	0.076	0.199	0.124		36.7		
Body	LTE Band 66	20	QPSK	6	N/A	78TB02609	1:1	0.02	1730.00	132072	0.0	25.5	24.25	1	89	Bottom	0	0.008	1.334	0.077	0.203	0.127		36.6		
Body	LTE Band 66	20	QPSK	6	N/A	78TB02609	1:1	-0.02	1720.00	132072	1.0	24.5	23.51	50	25	Bottom	0	0.006	1.266	0.063	0.208	0.120		36.5		
Body	LTE Band 66	20	QPSK	6	N/A	78TB02609	1:1	0.30	1745.00	132322	0.0	25.5	24.28	1	0	Right	25	0.087	1.324	0.049	0.129	0.081		38.5		
Body	LTE Band 66	20	QPSK	6	N/A	78TB02609	1:1	0.07	1745.00	132322	0.0	25.5	24.28	1	0	Left	25	0.110	1.324	0.146	0.383	0.239		38.8		
Body	LTE Band 66	20	QPSK	6	ULCA 66B	78TB02609	1:1	-0.11	1725.00	132022	0.0	25.5	23.64	1	65	Bottom	0	0.056	1.535	0.089	0.234	0.146		36.0		
Body	LTE Band 66	20	QPSK	6	ULCA 66C	78TB02609	1:1	-0.09	1724.90	132314	0.0	25.5	23.64	1	59	Bottom	0	0.059	1.303	0.077	0.202	0.126	Plot	36.6		
Body	LTE Band 66	20	QPSK	6	ULCA 66C	78TB02609	1:1	-0.09	1730.00	132072	0.0	25.5	24.35	1	0	Bottom	0	0.059	1.303	0.077	0.202	0.126	Plot	36.6		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-20
LTE Band 66 Antenna 6 – Motion| Plot A20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]	
Body	LTE Band 66	20	QPSK	6	4TDR02609	1:1	0.05	1770.00	132572	0.0	18.2	16.95	1	0	Back	5	0.425	1.334	0.567	0.567	0.354	Plot	20.6	20.6	17.2	
Body	LTE Band 66	20	QPSK	6	78TB02609	1:1	-0.05	1745.00	132322	0.0	18.2	17.18	50	0	Top	5	0.253	1.265	0.447	0.447	0.279		21.7			
Body	LTE Band 66	20	QPSK	6	78TB02609	1:1	0.08	1745.00	132322	0.0	18.2	17.18	50	0	Bottom	5	0.007	1.265	0.009	0.009	0.006		18.7			
Body	LTE Band 66	20	QPSK	6	78TB02609	1:1	0.07	1745.00	132322	0.0	18.2	17.18	50	0	Right	5	0.009	1.265	0.000	0.000	0.000		18.7			
Body	LTE Band 66	20	QPSK	6	78TB02609	1:1	-0.04	1745.00	132322	0.0	18.2	17.18	50	0	Left	5	0.198	1.265	0.250	0.250	0.156		24.2			
ANS/IEEE C95.1.1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

11.11 LTE Band 25 Standalone SAR

Table 11-21
LTE Band 25 Antenna 6 – No Motion| Plot A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body	LTE Band 25	20	QPSK	6	4TDR02609	1:1	-0.01	1882.50	26365	0.0	25.5	24.15	1	0	Back	25	0.244	1.365	0.333	0.896	0.560		30.2	29.8	
Body	LTE Band 25	20	QPSK	6	78TC02609	1:1	0.02	1882.50	26365	0.0	25.5	24.15	1	0	Top	25	0.267	1.365	0.364	0.981	0.613				
Body	LTE Band 25	20	QPSK	6	4TDR02609	1:1	0.01	1882.50	26365	0.0	25.5	24.15	1	0	Bottom	0	0.041	1.365	0.056	0.151	0.094	Plot	38.0	38.0	
Body	LTE Band 25	20	QPSK	6	4TDR02609	0.1:1	0.21	1882.50	26365	1.0	24.5	23.83	50	0	Bottom	0	0.008	1.309	0.037	0.124	0.078				
Body	LTE Band 25	20	QPSK	6	4TDR02609	1:1	0.10	1882.50	26365	0.0	25.5	24.15	1	0	Right	25	0.039	1.365	0.051	0.143	0.089				
Body	LTE Band 25	20	QPSK	6	78TC02609	1:1	-0.20	1882.50	26365	0.0	25.5	24.15	1	0	Left	25	0.040	1.365	0.050	0.147	0.092				
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

FCC ID: C3K2114	RF Exposure Part 1 Test Report				Approved by: Technical Manager
Document S/N: 1M2606300059-01.C3K (Rev1)	DUT Type: Wireless Module	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo			Page 84 of 103



Table 11-22
LTE Band 25 Antenna 6 – Motion| Plot A22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 25	20	QPSK	6	4T0RD2609	1:1	0.02	1882.50	26365	0.0	17.7	16.26	50	25	Back	5	0.287	1.393	0.400	0.400	0.250		21.6	20.6	16.7
Body	LTE Band 25	20	QPSK	6	78T032609	1:1	0.03	1882.50	26365	0.0	17.7	16.26	50	25	Top	5	0.267	1.393	0.511	0.511	0.319	Plot	20.6		
Body	LTE Band 25	20	QPSK	6	78T032609	1:1	0.01	1882.50	26365	0.0	17.7	16.26	50	25	Bottom	5	0.098	1.393	0.011	0.011	0.007		17.2		
Body	LTE Band 25	20	QPSK	6	78T032609	1:1	0.01	1882.50	26365	0.0	17.7	16.46	1	0	Right	5	0.096	1.330	0.021	0.021	0.013		34.4		
Body	LTE Band 25	20	QPSK	6	78T032609	1:1	0.03	1882.50	26365	0.0	17.7	16.26	50	25	Left	5	0.236	1.393	0.329	0.329	0.206		22.5		
Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

11.12 LTE Band 2 Standalone SAR

Table 11-23
LTE Band 2 Antenna 6 – No Motion| Plot A23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 2	20	QPSK	6	N/A	78T032609	1:1	0.00	1880.00	18900	0.0	25.5	24.01	1	99	Back	25	0.248	1.409	0.149	0.385	0.616		30.0		
Body	LTE Band 2	20	QPSK	6	N/A	78T032609	1:1	0.13	1880.00	18900	0.0	25.5	24.01	1	99	Top	25	0.234	1.409	0.180	0.329	0.581		30.3		
Body	LTE Band 2	20	QPSK	6	N/A	78T032609	1:1	0.06	1880.00	18900	0.0	25.5	24.12	1	0	Bottom	0	0.085	1.374	0.117	0.129	0.206	Plot	34.1		
Body	LTE Band 2	20	QPSK	6	N/A	78T032609	1:1	0.01	1880.00	18900	1.0	24.5	23.25	50	50	Bottom	0	0.070	1.334	0.093	0.331	0.207		33.1		
Body	LTE Band 2	20	QPSK	6	N/A	78T032609	1:1	0.03	1880.00	18900	0.0	25.5	24.01	1	99	Right	25	0.080	1.409	0.096	0.159	0.109		27.8		
Body	LTE Band 2	20	QPSK	6	N/A	78T032609	1:1	0.08	1880.00	18900	0.0	25.5	24.01	1	99	Left	25	0.164	1.409	0.331	0.653	0.407		31.6		
Body	LTE Band 2	20	QPSK	6	ULCA 2C	78T032609	1:1	0.03	1880.00	18900	0.0	25.5	24.59	1	0	Bottom	0	0.073	1.233	0.090	0.254	0.159		35.9		
ANSI/IEEE C63.19-2002 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 11-24
LTE Band 2 Antenna 6 – Motion| Plot A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 2	20	QPSK	6	78T032609	1:1	0.00	1860.00	18700	0.0	17.7	16.68	50	50	Back	5	0.126	1.265	0.412	0.412	0.258		21.5		
Body	LTE Band 2	20	QPSK	6	78T032609	1:1	0.00	1880.00	18900	0.0	17.7	16.66	50	50	Top	5	0.359	1.271	0.456	0.456	0.285	Plot	21.1		
Body	LTE Band 2	20	QPSK	6	78T032609	1:1	0.06	1860.00	18700	0.0	17.7	16.66	50	50	Bottom	0	0.089	1.271	0.011	0.011	0.007		17.1		
Body	LTE Band 2	20	QPSK	6	78T032609	1:1	0.02	1880.00	18900	0.0	17.7	16.65	50	50	Right	5	0.015	1.271	0.019	0.019	0.012		34.8		
Body	LTE Band 2	20	QPSK	6	78T032609	1:1	0.00	1880.00	18900	0.0	17.7	16.66	50	50	Left	5	0.200	1.271	0.318	0.318	0.199		22.6		
Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

11.13 LTE Band 30 Standalone SAR

Table 11-25
LTE Band 30 Antenna 6 – No Motion| Plot A25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.04	2310.00	27710	0.0	22.0	21.16	1	49	Back	25	0.148	1.213	0.180	0.683	0.427		29.4		
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.17	2310.00	27710	0.0	22.0	21.16	1	49	Top	25	0.212	1.213	0.257	0.978	0.611		27.8		
Body	LTE Band 30	10	QPSK	6	78T032609	1:1	0.02	2310.00	27710	0.0	22.0	21.20	1	25	Bottom	0	0.008	1.202	0.010	0.037	0.023	Plot	42.1		
Body	LTE Band 30	10	QPSK	6	78T032609	1:1	0.00	2310.00	27710	1.0	21.0	20.22	15	25	Bottom	0	0.006	1.197	0.007	0.034	0.021		42.4		
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.05	2310.00	27710	0.0	22.0	21.16	1	49	Right	25	0.005	1.213	0.012	0.046	0.029		41.1		
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.02	2310.00	27710	0.0	22.0	21.16	1	49	Left	25	0.063	1.213	0.076	0.291	0.182		33.1		
Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-26
LTE Band 30 Antenna 6 – Motion| Plot A26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.02	2310.00	27710	0.0	16.7	15.75	50	0	Back	5	0.547	1.245	0.681	0.681	0.426		18.1		
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.05	2310.00	27710	0.0	16.7	15.84	1	49	Top	5	0.552	1.219	0.673	0.673	0.421	Plot	18.4		
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.06	2310.00	27710	0.0	16.7	15.84	1	49	Bottom	5	0.500	1.219	0.000	0.000	0.000		15.8		
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.01	2310.00	27710	0.0	16.7	15.84	1	49	Right	5	0.000	1.219	0.000	0.000	0.000		15.8		
Body	LTE Band 30	10	QPSK	6	4T0RD2609	1:1	0.16	2310.00	27710	0.0	16.7	15.84	1	49	Left	5	0.123	1.219	0.150	0.150	0.094		24.9		
Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

FCC ID: C3K2114	RF Exposure Part 1 Test Report																			Approved by: Technical Manager
Document S/N: 1M2606300059-01.C3K (Rev1)	DUT Type: Wireless Module	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo																		Page 85 of 103

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11.14 LTE Band 41 Standalone SAR

Table 11-27
LTE Band 41 Antenna 6 – No Motion| Plot A27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body	LTE Band 41	20	QPSK	6	N/A	781712609	1:1.58	-0.11	2680.00	41490	0.0	25.5	23.95	1	0	Back	25	0.136	1.429	0.104	0.644	0.403		30.6		
Body	LTE Band 41	20	QPSK	6	N/A	781712609	1:1.58	0.07	2506.00	39750	0.0	25.5	24.15	1	99	Top	25	0.217	1.371	0.308	0.085	0.616		28.7		
Body	LTE Band 41	20	QPSK	6	N/A	781C32609	1:1.58	0.07	2506.00	39750	0.0	25.5	24.18	1	99	Bottom	0	0.011	1.352	0.015	0.049	0.031		41.7		
Body	LTE Band 41	20	QPSK	6	N/A	471C42609	1:1.58	0.04	2506.00	39750	0.0	25.5	24.18	1	99	Bottom	0	0.026	1.371	0.046	0.118	0.074		37.6		
Body	LTE Band 41	20	QPSK	6	N/A	781712609	1:2.31	0.12	2506.00	39750	0.0	27.0	26.38	1	99	Bottom	0	0.086	1.308	0.061	0.147	0.090		36.5		
Body	LTE Band 41	20	QPSK	6	N/A	781C32609	1:1.58	0.02	2506.00	39750	1.0	24.5	23.33	50	50	Bottom	0	0.012	1.309	0.016	0.005	0.061		40.6		
Body	LTE Band 41	20	QPSK	6	N/A	781C32609	1:1.58	0.05	2506.00	39750	1.0	24.5	23.34	50	25	Bottom	0	0.007	1.308	0.012	0.049	0.031		41.8		
Body	LTE Band 41	20	QPSK	6	N/A	781712609	1:1.58	-0.05	2680.00	41490	0.0	25.5	23.95	1	0	Right	25	0.029	1.429	0.037	0.123	0.077		37.6		
Body	LTE Band 41	20	QPSK	6	N/A	781712609	1:1.58	-0.11	2680.00	41490	0.0	25.5	23.95	1	0	Left	25	0.063	1.429	0.087	0.289	0.181		34.1		
Body	LTE Band 41	20	QPSK	6	ULCA 43C	471C42609	1:1.58	0.06	2525.80	39948	0.0	25.5	23.97	1	0	Bottom	0	0.029	1.432	0.041	0.137	0.086		37.3		
Body	LTE Band 41	20	QPSK	6	ULCA 43C	781C32609	1:2.31	0.05	2525.80	39948	0.0	27.0	26.05	1	99	Bottom	0	0.009	1.245	0.011	0.038	0.024		42.8		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Green entry represents HPLC measurement

Table 11-28
LTE Band 41 Antenna 6 – Motion| Plot A28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]				
Body	LTE Band 41	20	QPSK	6	781712609	1:1.58	-0.05	2636.50	43955	0.0	18.0	17.22	50	0	Back	5	0.363	1.197	0.458	0.458	0.286		19.4						
Body	LTE Band 41	20	QPSK	6	781712609	1:1.58	-0.18	2596.00	39750	0.0	18.0	17.46	50	1	Top	5	0.385	1.132	0.658	0.658	0.418	Plot	17.8						
Body	LTE Band 41	20	QPSK	6	781712609	1:1.58	0.07	2549.50	40185	0.0	18.0	17.43	50	25	Bottom	5	0.003	1.140	0.003	0.003	0.003		47.8		15.0				
Body	LTE Band 41	20	QPSK	6	781712609	1:1.58	0.20	2549.50	40185	0.0	18.0	17.43	50	25	Right	5	0.004	1.140	0.016	0.016	0.010		33.9						
Body	LTE Band 41	20	QPSK	6	781712609	1:1.58	-0.07	2549.50	40185	0.0	18.0	17.43	50	25	Left	5	0.178	1.140	0.203	0.203	0.127		27.9						
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Body											
Spatial Peak																		1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population																		increased over 1 gram											

11.15 LTE Band 48 Standalone SAR

Table 11-29
LTE Band 48 Antenna 1 – No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body	LTE Band 48	20	QPSK	1	N/A	471C42609	1:1.58	0.18	3690.00	56640	0.0	21.0	20.06	1	0	Back	25	0.040	1.242	0.050	0.625	0.391		32.0		
Body	LTE Band 48	20	QPSK	1	N/A	471C42609	1:1.58	0.08	3560.00	53340	0.0	15.7	14.48	50	1	Top	25	0.085	1.180	0.053	0.668	0.418		31.7		
Body	LTE Band 48	20	QPSK	1	N/A	471C42609	1:1.58	0.03	3646.70	56207	0.0	21.0	20.34	1	0	Bottom	0	0.022	1.164	0.026	0.322	0.201		34.9		
Body	LTE Band 48	20	QPSK	1	N/A	471C42609	1:1.58	0.08	3646.70	56207	1.0	20.0	19.48	50	25	Bottom	0	0.003	1.164	0.004	0.362	0.229		34.2		
Body	LTE Band 48	20	QPSK	1	N/A	781B82609	1:1.58	0.08	3560.00	53340	0.0	15.7	14.45	50	1	Right	25	0.015	1.180	0.015	0.193	0.121		37.1		
Body	LTE Band 48	20	QPSK	1	N/A	781B82609	1:1.58	0.07	3560.00	53340	0.0	15.7	14.45	50	1	Left	25	0.006	1.213	0.007	0.092	0.058		40.3		
Body	LTE Band 48	20	QPSK	1	ULCA 43C	781C32609	1:1.58	0.01	3636.30	56009	0.0	21.0	20.03	1	89	Bottom	0	0.008	1.25	0.023	0.023	0.054		35.4		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-30
LTE Band 48 Antenna 1 – Motion| Plot A29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]	
Body	LTE Band 48	20	QPSK	1	471C42609	1:1.58	-0.03	3690.00	56640	0.0	15.7	14.03	1	0	Back	5	0.518	1.469	0.820	0.820	0.513	Plot	14.5			
Body	LTE Band 48	20	QPSK	1	781B82609	1:1.58	-0.03	3560.00	53340	0.0	15.7	14.48	50	50	Top	5	0.280	1.134	0.374	0.374	0.234		17.9			
Body	LTE Band 48	20	QPSK	1	781B82609	1:1.58	0.04	3560.00	53340	0.0	15.7	14.45	50	50	Bottom	5	0.002	1.134	0.003	0.003	0.002		39.4	14.5	12.7	
Body	LTE Band 48	20	QPSK	1	781B82609	1:1.58	-0.03	3560.00	53340	0.0	15.7	14.45	50	50	Right	5	0.001	1.134	0.008	0.008	0.043		23.3			
Body	LTE Band 48	20	QPSK	1	781B82609	1:1.58	0.02	3560.00	53340	0.0	15.7	14.45	50	50	Left	5	0.003	1.134	0.004	0.004	0.003		37.8			
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		increased over 1 gram								

Table 11-31
LTE Band 48 Antenna 6 – No Motion| Plot A30

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	MPE (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	Plimt (dBm)	Overall Plimt (dBm)	EFS Plimt (dBm)	
Body	LTE Band 48	20	QPSK	6	471C42609	1:1	0.08	3560.00	53340	0.0	22.0	20.84	1	0	Back	25	0.068	1.306	0.089	0.868	0.543		32.5			
Body	LTE Band 48	20	QPSK	6	471C42609	1:1	0.07	3560.00	53340	0.0	22.0	20.84	1	0	Top	25	0.077	1.306	0.101	0.983	0.614		31.9			
Body	LTE Band 48	20	QPSK	6	471C42609	1:1	0.03	3646.70	56207	0.0	22.0	20.02	1	0	Bottom	0	0.022	1.178	0.035	0.339	0.212	Plot	36.5			
Body	LTE Band 48	20	QPSK	6	471C42609	1:1	0.08	3646.70	56207	1.0	21.0	19.18	50	25	Bottom	0	0.001	1.121	0.032	0.393	0.246		35.9	31.9		
Body	LTE Band 48	20	QPSK	6	471C42609	1:1	0.18	3560.00	53340	0.0	22.0	20.84	1	0	Right	25	0.002	1.306	0.003	0.026	0.016		47.8			
Body	LTE Band 48	20	QPSK	6	471C42609	1:1	0.02	3560.00	53340	0.0	22.0	20.84	1	0	Left	25	0.006	1.306	0.047	0.460	0.288		35.2			
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																										

FCC ID: C3K2114	RF Exposure Part 1 Test Report		Approved by: Technical Manager	
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Table 11-32
LTE Band 48 Antenna 6 – Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mW [dBm]	Overall P1mW [dBm]	EFS P1mW [dBm]
Body	LTE Band 48	20	QPSK	6	4TDC02609	1:1	-0.18	3560.00	55340	0.0	14.0	13.53	1	0	Back	5	0.234	1.114	0.261	0.261	0.163		19.8		
Body	LTE Band 48	20	QPSK	6	4TDC02609	1:1	0.13	3560.00	55340	0.0	14.0	13.53	1	0	Top	5	0.127	1.114	0.136	0.136	0.085		22.6		
Body	LTE Band 48	20	QPSK	6	78TDC2609	1:1	0.06	3560.00	55340	0.0	14.0	13.53	1	0	Bottom	5	0.060	1.114	0.000	0.000	0.000		40.5		
Body	LTE Band 48	20	QPSK	6	4TDC02609	1:1	0.06	3560.00	55340	0.0	14.0	13.53	1	0	Right	5	0.090	1.114	0.000	0.000	0.000		53.5		
Body	LTE Band 48	20	QPSK	6	4TDC02609	1:1	0.05	3560.00	55340	0.0	14.0	13.53	1	0	Left	5	0.056	1.114	0.040	0.040	0.025		77.9		
Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

11.16 NR Band n71 Standalone SAR

Table 11-33
NR Band n71 Antenna 2 – No Motion| Plot A31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1mW [dBm]	Overall P1mW [dBm]	EFS P1mW [dBm]	
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	23.54	1	1	Back	25	0.272	1.400	0.381	0.647	0.404		29.1			
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	23.55	50	28	Top	25	0.326	1.396	0.329	0.560	0.350		29.8			
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	0.12	680.50	136100	DFT-s-OFDM	0.0	25.0	23.46	1	50	Bottom	0	0.020	1.387	0.033	0.054	0.034	Plot	39.5			
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	0.12	680.50	136100	DFT-s-OFDM	0.0	25.0	23.55	50	28	Bottom	0	0.014	1.396	0.020	0.033	0.021		42.0			
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	0.09	680.50	136100	CP-OFDM	1.5	23.5	22.12	1	1	Bottom	0	0.023	1.374	0.018	0.043	0.027		40.9			
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	0.17	680.50	136100	DFT-s-OFDM	0.0	25.0	23.55	50	28	Right	25	0.077	1.396	0.107	0.185	0.114		34.6			
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.0	23.54	1	1	Left	25	0.001	1.400	0.071	0.121	0.076		36.4			
ANSI/CES-3 1992 - SAFETY LIMIT																	Body										
Spatial Peak																	1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population																	averaged over 1 gram										

Table 11-34
NR Band n71 Antenna 2 – Motion| Plot A32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mW [dBm]	Overall P1mW [dBm]	EFS P1mW [dBm]
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	19.0	17.93	1	1	Back	5	0.466	1.279	0.596	0.596	0.279	Plot	21.2		
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	19.0	17.96	50	0	Top	5	0.322	1.271	0.269	0.269	0.168		24.6		
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	19.0	17.96	50	0	Bottom	5	0.021	1.271	0.014	0.014	0.009		37.5	21.2	18.0
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	19.0	17.96	50	0	Right	5	0.028	1.271	0.036	0.036	0.023		34.4		
Body	NR Band n71	20	QPSK	2	78TDC2609	1:1	-0.17	680.50	136100	DFT-s-OFDM	0.0	19.0	17.89	1	1	Left	5	0.034	1.279	0.018	0.018	0.013		36.4		
Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

FCC ID: C3K2114	RF Exposure Part 1 Test Report		Approved by: Technical Manager
Document S/N: 1M2606300059-01.C3K (Rev1)	DUT Type: Wireless Module	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo	Page 87 of 103



11.17 NR Band n12 Standalone SAR

Table 11-35
NR Band n12 Antenna 2 – No Motion| Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	PinR [dBm]	Overall PinR [dBm]	EFS PinR [dBm]
Body	NR Band n12	15	QPSK	2	787182609	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.0	24.01	1	1	Back	25	0.029	1.256	0.288	0.644	0.463		30.4		
Body	NR Band n12	15	QPSK	2	787182609	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.0	24.05	1	1	Top	25	0.229	1.256	0.284	0.593	0.389		30.7		
Body	NR Band n12	15	QPSK	2	787182609	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.0	24.05	1	77	Bottom	0	0.030	1.245	0.025	0.056	0.035	Plot	41.0		
Body	NR Band n12	15	QPSK	2	787182609	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.0	23.98	36	22	Bottom	0	0.037	1.265	0.022	0.048	0.036		41.6	30.4	
Body	NR Band n12	15	QPSK	2	787182609	1:1	-0.1	707.50	141500	CP-OFDM	-1.5	23.5	22.52	1	1	Bottom	0	0.008	1.033	0.003	0.013	0.009		43.4		
Body	NR Band n12	15	QPSK	2	787182609	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	25.0	24.01	1	1	Right	25	0.021	1.256	0.026	0.059	0.037		40.7		
Body	NR Band n12	15	QPSK	2	787182609	1:1	-0.15	707.50	141500	DFT-s-OFDM	0.0	25.0	24.01	1	1	Left	25	0.020	1.256	0.040	0.060	0.038		40.2		
ANSI/IEEE C95.1 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 11-36
NR Band n12 Antenna 2 – Motion| Plot A34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PinR [dBm]	Overall PinR [dBm]	EFS PinR [dBm]
Body	NR Band n12	15	QPSK	2	78182609	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	19.5	18.43	1	1	Back	5	0.449	1.279	0.574	0.574	0.339	Plot	21.9		
Body	NR Band n12	15	QPSK	2	78182609	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	19.5	18.43	1	1	Top	5	0.165	1.279	0.211	0.211	0.132		26.2	21.9	
Body	NR Band n12	15	QPSK	2	78182609	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	19.5	18.43	1	1	Bottom	5	0.008	1.279	0.010	0.010	0.006		39.1		
Body	NR Band n12	15	QPSK	2	78182609	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	19.5	18.43	1	1	Right	5	0.036	1.279	0.020	0.020	0.013		36.3		
Body	NR Band n12	15	QPSK	2	78182609	1:1	-0.17	707.50	141500	DFT-s-OFDM	0.0	19.5	18.43	1	1	Left	5	0.020	1.279	0.013	0.013	0.008		38.4		
ANWEE CML1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

11.18 NR Band n14 Standalone SAR

Table 11-37
NR Band n14 Antenna 2 – No Motion| Plot A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PinR [dBm]	Overall PinR [dBm]	EFS PinR [dBm]			
Body	NR Band n14	10	QPSK	2	78182609	1:1	0.08	793.00	158000	DFT-s-OFDM	0.0	25.0	23.74	1	1	Back	25	0.009	1.337	0.092	0.569	0.356		35.3					
Body	NR Band n14	10	QPSK	2	78182609	1:1	0.01	793.00	158000	DFT-s-OFDM	0.0	25.0	23.74	1	1	Top	25	0.120	1.337	0.160	0.889	0.423		32.5					
Body	NR Band n14	10	QPSK	2	78182609	1:1	-0.01	793.00	158000	DFT-s-OFDM	0.0	25.0	23.78	1	26	Bottom	0	0.009	1.324	0.011	0.065	0.041	Plot	44.7					
Body	NR Band n14	10	QPSK	2	78182609	1:1	0.01	793.00	158000	DFT-s-OFDM	0.0	25.0	23.82	25	14	Bottom	0	0.008	1.312	0.010	0.065	0.041		44.7	32.9				
Body	NR Band n14	10	QPSK	2	78182609	1:1	-0.07	793.00	158000	CP-OFDM	-1.5	23.5	22.97	1	1	Bottom	0	0.006	1.297	0.006	0.056	0.030		45.1					
Body	NR Band n14	10	QPSK	2	78182609	1:1	0.03	793.00	158000	DFT-s-OFDM	0.0	25.0	23.74	1	1	Right	25	0.021	1.337	0.028	0.173	0.108		40.9					
Body	NR Band n14	10	QPSK	2	78182609	1:1	0.12	793.00	158000	DFT-s-OFDM	0.0	25.0	23.74	1	1	Left	25	0.020	1.337	0.025	0.157	0.098		40.9					
ANSWEE CML1 1992 - SAFETY LIMIT																								1.6 W/kg (mW/g)					
Spatial Peak																								averaged over 1 gram					
Uncontrolled Exposure/General Population																													

Table 11-38
NR Band n14 Antenna 2 – Motion| Plot A36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	PinR [dBm]	Overall PinR [dBm]	EFS PinR [dBm]			
Body	NR Band n14	10	QPSK	2	78182609	1:1	0.03	793.00	158000	DFT-s-OFDM	0.0	19.5	17.93	1	26	Back	5	0.435	1.435	0.624	0.624	0.330	Plot	21.9					
Body	NR Band n14	10	QPSK	2	78182609	1:1	-0.01	793.00	158000	DFT-s-OFDM	0.0	19.5	17.93	1	26	Top	5	0.244	1.435	0.330	0.330	0.200		24.0	21.5	18.5			
Body	NR Band n14	10	QPSK	2	78182609	1:1	-0.05	793.00	158000	DFT-s-OFDM	0.0	19.5	17.93	1	26	Bottom	5	0.009	1.435	0.009	0.009	0.006		40.1					
Body	NR Band n14	10	QPSK	2	78182609	1:1	-0.22	793.00	158000	DFT-s-OFDM	0.0	19.5	17.93	1	26	Right	5	0.005	1.435	0.022	0.022	0.014		36.3					
Body	NR Band n14	10	QPSK	2	78182609	1:1	0.07	793.00	158000	DFT-s-OFDM	0.0	19.5	17.93	1	26	Left	5	0.008	1.435	0.011	0.011	0.007		36.2					
Antenna CML1 1992 - SAFETY LIMIT																		Body						1.6 W/kg (mW/g) averaged over 1 gram					
Spatial Peak																		Uncontrolled Exposure/General Population						EFS LIMIT					

11.19 NR Band n5 Standalone SAR

Table 11-39
NR Band n5 Antenna 2 – No Motion| Plot A37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	PinR [dBm]	Overall PinR [dBm]	EFS PinR [dBm]
Body	NR Band n5	20	QPSK	2	78182609	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	25.0	24.08	1	1	Back	25	0.320	1.236	0.361	0.642	0.461		29.4		
Body	NR Band n5	20	QPSK	2	78182609	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	25.0	24.08	1	1	Top	25	0.429	1.236	0.441	0.763	0.603		27.2		
Body	NR Band n5	20	QPSK	2	78182609	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	24.08	1	1	Bottom	0	0.037	1.236	0.021	0.037	0.033	Plot	41.7		
Body	NR Band n5	20	QPSK	2	78182609	1:1	-0.12	836.50	167300	DFT-s-OFDM	0.0	25.0	24.02	50	28	Bottom	0	0.023	1.253	0.016	0.029	0.028		42.8	27.6	
Body	NR Band n5	20	QPSK	2	78182609	1:1	-0.09	836.50	167300	CP-OFDM	-1.5	23.5	22.44	1	1	Bottom	0	0.003	1.218	0.016	0.040	0.025		41.5		
Body	NR Band n5	20	QPSK	2	78182609	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	25.0	24.08	1	1	Right	25	0.037	1.236	0.046	0.081	0.051		38.3		
Body	NR Band n5	20	QPSK	2	78182609	1:1	-0.21	836.50	167300	DFT-s-OFDM	0.0	25.0	24.08	1	1	Left	25	0.030	1.236	0.012	0.022	0.014		44.0		
ANSWEE CML1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 11-40
NR Band n5 Antenna 2 – Motion| Plot A38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	PinR [dBm]	Overall PinR [dBm]	EFS PinR [dBm]
Body	NR Band n5	20	QPSK	2	78182609	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	19.8	18.54	1	1	Back	5	0.587	1.337	0.785	0.785	0.451	Plot	20.8		
Body	NR Band n5	20	QPSK	2	78182609	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	19.8	18.54	1	1	Top	5	0.540	1.337	0.722	0.722	0.451		21.2	20.8	
Body	NR Band n5	20	QPSK	2	78182609	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	19.8	18.46	50	0	Bottom	5	0.001	1.351	0.011	0.011	0.007		39.4		
Body	NR Band n5	20	QPSK	2	78182609	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	19.8	18.54	1	1	Right	5	0.038	1.337	0.051	0.051	0.032		32.7		
Body	NR Band n5	20	QPSK	2	78182609	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	19.8	18.54	1	1	Left	5	0.034	1.337	0.019	0.019	0.012		37.0		
ANSWEE CML1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

FCC ID: C3K2114	RF Exposure Part 1 Test Report					Approved by: Technical Manager
Document S/N: 1M2606300059-01.C3K (Rev1)	DUT Type: Wireless Module	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo				Page 88 of 103

11.20 NR Band n26 Standalone SAR

Table 11-41
NR Band n26 Antenna 2 – No Motion| Plot A39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body	NR Band n26	20	QPSK	2	781882609	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	24.04	50	28	Back	25	0.225	1.247	0.268	0.643	0.462		30.7	29.3	28.8
Body	NR Band n26	20	QPSK	2	781882609	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	24.04	50	28	Top	25	0.226	1.247	0.269	0.643	0.462		30.7	29.3	28.8
Body	NR Band n26	20	QPSK	2	781882609	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	24.01	1	53	Bottom	0	0.004	1.256	0.005	0.012	0.008		47.9	29.3	28.8
Body	NR Band n26	20	QPSK	2	781882609	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.0	24.04	50	28	Bottom	0	0.004	1.247	0.005	0.012	0.008		48.5	29.3	28.8
Body	NR Band n26	20	QPSK	2	781882609	1:1	0.04	831.50	166300	CP-OFDM	-1.5	23.5	22.43	1	1	Bottom	0	0.013	1.279	0.012	0.056	0.035	Plot	43.2	29.3	28.8
Body	NR Band n26	20	QPSK	2	781312609	1:1	-0.10	831.50	166300	DFT-s-OFDM	0.0	25.0	24.04	50	28	Right	25	0.026	1.247	0.032	0.078	0.049		39.8	29.3	28.8
Body	NR Band n26	20	QPSK	2	781312609	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	24.04	50	28	Left	25	0.013	1.247	0.016	0.039	0.024		43.2	29.3	28.8
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)						
Spatial Peak																				averaged over 1 gram						
Uncontrolled Exposure/General Population																										

Table 11-42
NR Band n26 Antenna 2 – Motion| Plot A40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body	NR Band n26	20	QPSK	2	781882609	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	19.8	18.46	50	0	Back	5	0.508	1.361	0.691	0.691	0.432	Plot	21.4	18.8	18.8
Body	NR Band n26	20	QPSK	2	781882609	1:1	-0.10	831.50	166300	DFT-s-OFDM	0.0	19.8	18.46	50	0	Top	5	0.544	1.361	0.688	0.688	0.293		21.4	18.8	18.8
Body	NR Band n26	20	QPSK	2	781882609	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	19.8	18.34	1	53	Bottom	5	0.009	1.400	0.013	0.013	0.008		38.1	18.8	18.8
Body	NR Band n26	20	QPSK	2	781882609	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	19.8	18.46	50	0	Right	5	0.019	1.361	0.026	0.026	0.016		35.0	18.8	18.8
Body	NR Band n26	20	QPSK	2	781882609	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	19.8	18.46	50	0	Left	5	0.008	1.361	0.011	0.011	0.007		39.4	18.8	18.8
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)						
Spatial Peak																				averaged over 1 gram						
Uncontrolled Exposure/General Population																										

11.21 NR Band n66 Standalone SAR

Table 11-43
NR Band n66 Antenna 6 – No Motion| Plot A41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body	NR Band n66	40	QPSK	6	470802609	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	25.5	24.24	1	214	Back	25	0.212	1.337	0.283	0.780	0.488		30.9	29.9	29.9
Body	NR Band n66	40	QPSK	6	470802609	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	25.5	24.24	108	54	Top	25	0.274	1.334	0.363	1.000	0.425		30.9	29.9	29.9
Body	NR Band n66	40	QPSK	6	470802609	1:1	0.12	1745.00	349000	DFT-s-OFDM	0.0	25.5	24.24	1	214	Bottom	0	0.007	1.337	0.009	0.006	0.016		45.7	29.9	29.9
Body	NR Band n66	40	QPSK	6	781312609	1:1	-0.20	1745.00	349000	DFT-s-OFDM	0.0	25.5	24.28	108	54	Bottom	0	0.013	1.334	0.017	0.047	0.020	Plot	43.1	29.9	29.9
Body	NR Band n66	40	QPSK	6	470802609	1:1	0.08	1745.00	349000	CP-OFDM	-1.5	24.0	22.63	1	1	Bottom	0	0.006	1.371	0.008	0.010	0.009		44.8	29.9	29.9
Body	NR Band n66	40	QPSK	6	470802609	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	25.5	24.24	1	214	Right	25	0.036	1.337	0.048	0.133	0.083		38.0	29.9	29.9
Body	NR Band n66	40	QPSK	6	470802609	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	25.5	24.24	1	214	Left	25	0.123	1.337	0.162	0.440	0.278		33.4	29.9	29.9
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)						
Spatial Peak																				averaged over 1 gram						
Uncontrolled Exposure/General Population																										

Table 11-44
NR Band n66 Antenna 6 – Motion| Plot A42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body	NR Band n66	40	QPSK	6	781312609	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	18.2	16.96	1	214	Back	5	0.033	1.324	0.838	0.838	0.524	Plot	18.9	17.2	17.2
Body	NR Band n66	40	QPSK	6	781312609	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	18.2	17.16	108	108	Top	5	0.484	1.271	0.615	0.615	0.384		20.3	17.2	17.2
Body	NR Band n66	40	QPSK	6	781312609	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	18.2	17.16	108	108	Bottom	5	0.008	1.271	0.008	0.008	0.005		39.3	17.2	17.2
Body	NR Band n66	40	QPSK	6	781312609	1:1	0.12	1745.00	349000	DFT-s-OFDM	0.0	18.2	16.96	1	214	Right	5	0.001	1.324	0.020	0.020	0.003		35.2	17.2	17.2
Body	NR Band n66	40	QPSK	6	781312609	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	18.2	16.96	1	214	Left	5	0.015	1.324	0.364	0.364	0.224		22.2	17.2	17.2
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)						
Spatial Peak																				averaged over 1 gram						
Uncontrolled Exposure/General Population																										

11.22 NR Band n25 Standalone SAR

Table 11-45
NR Band n25 Antenna 6 – No Motion| Plot A43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body	NR Band n25	40	QPSK	6	781312609	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	25.5	24.17	108	54	Back	25	0.320	1.358	0.274	0.658	0.411		31.1		
Body	NR Band n25	40	QPSK	6	781312609	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	25.5	24.13	1	214	Top	25	0.001	1.413	0.011	0.090	0.019		29.3		
Body	NR Band n25	40	QPSK	6	781312609	1:1	-0.18	1882.50	376500	DFT-s-OFDM	0.0	25.5	24.15	1	108	Bottom	0	0.009	1.365	0.012	0.020	0.018	Plot	44.6		
Body	NR Band n25	40	QPSK	6	781312609	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	25.5	24.17	108	54	Bottom	0	0.007	1.358	0.010	0.021	0.024		45.2	29.3	29.3
Body	NR Band n25	40	QPSK	6	781312609	1:1	0.04	1882.50	376500	CP-OFDM	-1.5	24.0	22.14	1	1	Bottom	0	0.001	1.400	0.004	0.014	0.009		47.7		
Body	NR Band n25	40	QPSK	6	781312609	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	25.5	24.17	108	54	Right	25	0.033	1.358	0.045	0.108	0.068		38.9		
Body	NR Band n25	40	QPSK	6	781312609	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	25.5	24.17	108	54	Left	25	0.010	1.358	0.143	0.342	0.214		33.9		
												ANSI C63.1992 - SAFETY LIMIT														
												1.6 W/kg (mW/g)														
												Uncontrolled Exposure (General Population)														
												averaged over 30 min														
												Body														
												1.6 W/kg (mW/g)														
												averaged over 30 min														

11.23 NR Band n30 Standalone SAR

Table 11-47
NR Band n30 Antenna 6 – No Motion| Plot A45

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1mW [dBm]	Overall P1mW [dBm]	EFS P1mW [dBm]
Body	NR Band n30	10	QPSK	6	78132609	1:1	-0.04	2110.00	462000	DFT-s-OFDM	0.0	22.0	21.19	25	14	Back	25	0.136	1.205	0.164	0.588	0.355		29.8		
Body	NR Band n30	10	QPSK	6	78132609	1:1	0.01	2110.00	462000	DFT-s-OFDM	0.0	22.0	21.25	1	50	Top	25	0.281	1.189	0.287	0.993	0.621		27.4		
Body	NR Band n30	10	QPSK	6	78132609	1:1	0.02	2110.00	462000	DFT-s-OFDM	0.0	22.0	21.25	1	50	Bottom	0	0.038	1.189	0.021	0.074	0.046	Plot	38.0		
Body	NR Band n30	10	QPSK	6	78132609	1:1	-0.01	2110.00	462000	DFT-s-OFDM	0.0	22.0	21.19	25	14	Bottom	0	0.007	1.205	0.008	0.029	0.018		42.7		
Body	NR Band n30	10	QPSK	6	78132609	1:1	0.01	2110.00	462000	CP-OFDM	-1.5	20.5	19.63	1	1	Bottom	0	0.006	1.222	0.007	0.036	0.023		43.6		
Body	NR Band n30	10	QPSK	6	78132609	1:1	0.05	2110.00	462000	DFT-s-OFDM	0.0	22.0	21.19	25	14	Right	25	0.027	1.205	0.033	0.113	0.071		36.8		
Body	NR Band n30	10	QPSK	6	78132609	1:1	0.02	2110.00	462000	DFT-s-OFDM	0.0	22.0	21.19	25	14	Left	25	0.075	1.205	0.088	0.305	0.195		33.3		
ANSI/IEEE C95.1-2019 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 11-48
NR Band n30 Antenna 6 – Motion| Plot A46

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1mW [dBm]	Overall P1mW [dBm]	EFS P1mW [dBm]			
Body	NR Band n30	10	QPSK	6	78132609	1:1	-0.13	2110.00	462000	CP-OFDM	0.0	16.7	15.26	1	1	Back	5	0.361	1.393	0.503	0.503	0.314		19.0					
Body	NR Band n30	10	QPSK	6	78132609	1:1	-0.03	2110.00	462000	DFT-s-OFDM	0.0	16.7	15.36	10	0	Top	5	0.456	1.361	0.621	0.621	0.388	Plot	18.7					
Body	NR Band n30	10	QPSK	6	78132609	1:1	0.04	2110.00	462000	DFT-s-OFDM	0.0	16.7	15.45	1	80	Bottom	5	0.009	1.314	0.003	0.003	0.002		42.4		15.7			
Body	NR Band n30	10	QPSK	6	78132609	1:1	0.03	2110.00	462000	DFT-s-OFDM	0.0	16.7	15.38	25	14	Right	5	0.008	1.355	0.011	0.011	0.007		36.3					
Body	NR Band n30	10	QPSK	6	78132609	1:1	-0.07	2110.00	462000	DFT-s-OFDM	0.0	16.7	15.38	25	14	Left	5	0.008	1.355	0.002	0.002	0.008		27.0					
Analysis Tools: SAR Calculator																		Body											
Spatial Peak																													
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)											
																		averaged over 1 gram											

11.24 NR Band n41 Standalone SAR

Table 11-49
NR Band n41 Antenna 1 – No Motion| Plot A47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1mW [dBm]	Overall P1mW [dBm]	EFS P1mW [dBm]
Body	NR Band n41	100	QPSK	1	78172609	1:1	-0.06	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.63	1	137	Back	25	0.274	1.094	0.300	0.464	0.290	Plot	32.2		
Body	NR Band n41	100	QPSK	1	78172609	1:1	0.02	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.50	135	69	Top	25	0.071	1.122	0.043	0.095	0.023		28.1		
Body	NR Band n41	100	QPSK	1	47002609	1:1	0.02	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.63	1	137	Bottom	0	0.009	1.094	0.043	0.066	0.043		40.6		
Body	NR Band n41	100	QPSK	1	78172609	1:1	-0.09	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.50	135	69	Bottom	0	0.046	1.122	0.010	0.078	0.049	Plot	39.9		
Body	NR Band n41	100	QPSK	1	47002609	1:1	0.01	2592.99	518998	CP-OFDM	-1.5	25.5	24.92	1	1	Bottom	0	0.009	1.163	0.013	0.073	0.046		40.2		
Body	NR Band n41	100	QPSK	1	78172609	1:1	0.13	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.50	135	69	Right	25	0.143	1.122	0.160	0.249	0.136		34.9		
Body	NR Band n41	100	QPSK	1	78172609	1:1	0.07	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.63	1	137	Left	25	0.030	1.094	0.077	0.119	0.074		38.1		
ANALYZE CH1 1992 - SAR151UM1																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 11-50
NR Band n41 Antenna 1 – Motion| Plot A48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1mW [dBm]	Overall P1mW [dBm]	EFS P1mW [dBm]
Body	NR Band n41	100	QPSK	1	47002609	1:1	-0.08	2592.99	518998	DFT-s-OFDM	0.0	16.0	15.35	270	0	Back	5	0.708	1.245	0.881	0.881	0.551	Plot	16.9		
Body	NR Band n41	100	QPSK	1	78172609	1:1	0.00	2592.99	518998	CP-OFDM	0.0	16.0	15.40	1	1	Top	5	0.463	1.279	0.592	0.592	0.370		18.2		
Body	NR Band n41	100	QPSK	1	78172609	1:1	0.01	2592.99	518998	DFT-s-OFDM	0.0	16.0	15.59	1	137	Bottom	5	0.009	1.233	0.000	0.000	0.000		55.0		15.0
Body	NR Band n41	100	QPSK	1	78172609	1:1	0.02	2592.99	518998	DFT-s-OFDM	0.0	16.0	15.50	135	69	Right	5	0.204	1.233	0.252	0.252	0.159		21.9		
Body	NR Band n41	100	QPSK	1	78172609	1:1	0.07	2592.99	518998	DFT-s-OFDM	0.0	16.0	15.59	1	137	Left	5	0.020	1.233	0.012	0.012	0.008		35.0		
Antenna Coeff. (dB) = 0.00																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 11-51
NR Band n41 Antenna 6 – No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1mW [dBm]	Overall P1mW [dBm]	EFS P1mW [dBm]
Body	NR Band n41	100	QPSK	6	78172609	1:1	0.03	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.27	135	69	Back	25	0.319	1.183	0.377	0.533	0.333		31.2		
Body	NR Band n41	100	QPSK	6	78172609	1:1	0.10	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.27	135	69	Top	25	0.193	1.183	0.702	0.991	0.619		28.5		
Body	NR Band n41	100	QPSK	6	78172609	1:1	0.02	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.18	1	137	Bottom	0	0.013	1.208	0.028	0.039	0.024		42.1		
Body	NR Band n41	100	QPSK	6	78172609	1:1	0.02	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.27	135	69	Bottom	0	0.029	1.183	0.034	0.048	0.030		41.6		
Body	NR Band n41	100	QPSK	6	78172609	1:1	0.01	2592.99	518998	CP-OFDM	-1.5	25.5	24.77	1	1	Bottom	0	0.009	1.184	0.010	0.060	0.039		40.2		
Body	NR Band n41	100	QPSK	6	78172609	1:1	0.07	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.27	135	69	Right	25	0.069	1.183	0.080	0.114	0.071		37.9		
Body	NR Band n41	100	QPSK	6	78172609	1:1	0.13	2592.99	518998	DFT-s-OFDM	0.0	27.0	26.18	1	137	Left	25	0.203	1.208	0.245	0.346	0.216		33.1		
ANRREX-001-1592 - SAR1 (LMI)																		Spatial Peak								
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)								
																		averaged over 1 gram								

11.25 NR Band n48 Standalone SAR

Table 11-53
NR Band n48 Antenna 1 – No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	NR Band n48	40	QPSK	1	4T0902609	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.79	1	1	Back	25	0.004	1.321	0.098	0.347	0.217		31.0		
Body	NR Band n48	40	QPSK	1	4T0902609	1:1	0.14	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.87	50	28	Top	25	0.003	1.358	0.078	0.078	0.611		26.5		
Body	NR Band n48	40	QPSK	1	4T0902609	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.98	1	104	Bottom	0	0.006	1.355	0.022	0.077	0.048		37.6		
Body	NR Band n48	40	QPSK	1	4T0902609	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.97	50	28	Bottom	0	0.017	1.358	0.021	0.082	0.051		27.1		
Body	NR Band n48	40	QPSK	1	787882609	1:1	0.05	3570.00	638000	CP-OFDM	1.1	19.1	18.96	1	1	Bottom	0	0.007	1.330	0.003	0.113	0.071		35.1		
Body	NR Band n48	40	QPSK	1	4T0902609	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.87	50	28	Right	25	0.009	1.338	0.094	0.113	0.208		31.2		
Body	NR Band n48	40	QPSK	1	4T0902609	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.98	1	104	Left	25	0.007	1.355	0.050	0.178	0.111		33.9		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 11-54
NR Band n48 Antenna 1 – Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	NR Band n48	40	QPSK	1	4T0902609	1:1	0.00	3570.00	638000	CP-OFDM	0.0	13.7	12.96	1	1	Back	5	0.307	1.300	0.464	0.464	0.290		17.0		
Body	NR Band n48	40	QPSK	1	787882609	1:1	0.11	3570.00	638000	DFT-s-OFDM	0.0	13.7	12.46	50	0	Top	5	0.228	1.330	0.418	0.418	0.274		17.2		
Body	NR Band n48	40	QPSK	1	787882609	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	13.7	12.42	1	104	Bottom	5	0.006	1.352	0.003	0.003	0.000		39.4		
Body	NR Band n48	40	QPSK	1	787882609	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	13.7	12.46	50	0	Right	5	0.002	1.330	0.069	0.069	0.043		25.3		
Body	NR Band n48	40	QPSK	1	787882609	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	13.7	12.46	50	0	Left	5	0.002	1.330	0.003	0.003	0.002		39.4		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 11-55
NR Band n48 Antenna 6 – No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	NR Band n48	40	QPSK	6	4T0902609	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	21.0	19.11	50	28	Back	25	0.008	1.545	0.090	0.093	0.634		31.4		
Body	NR Band n48	40	QPSK	6	4T0902609	1:1	0.06	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.58	50	28	Top	25	0.004	1.387	0.089	0.073	0.059		31.5		
Body	NR Band n48	40	QPSK	6	4T0902609	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.59	1	104	Bottom	0	0.009	1.352	0.004	0.148	0.093		28.6		
Body	NR Band n48	40	QPSK	6	4T0902609	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.58	50	28	Bottom	0	0.009	1.387	0.012	0.137	0.086		40.0		
Body	NR Band n48	40	QPSK	6	787882609	1:1	0.03	3570.00	638000	CP-OFDM	1.1	19.1	18.96	1	1	Bottom	0	0.005	1.330	0.017	0.164	0.105		44.8		
Body	NR Band n48	40	QPSK	6	4T0902609	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.58	50	28	Right	25	0.003	1.387	0.004	0.046	0.019		44.8		
Body	NR Band n48	40	QPSK	6	4T0902609	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	21.0	19.58	50	28	Left	25	0.005	1.387	0.049	0.132	0.133		34.1		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak																										
Uncontrolled Exposure/General Population																										

Table 11-56
NR Band n48 Antenna 6 – Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	NR Band n48	40	QPSK	6	4T0902609	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	14.0	12.49	50	0	Back	5	0.388	1.416	0.542	0.542	0.339		16.6		
Body	NR Band n48	40	QPSK	6	787882609	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	14.0	12.86	50	0	Top	5	0.235	1.300	0.280	0.280	0.175		19.5		
Body	NR Band n48	40	QPSK	6	787882609	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	14.0	12.86	50	0	Bottom	5	0.003	1.300	0.003	0.003	0.000		39.8	16.6	13.0
Body	NR Band n48	40	QPSK	6	787882609	1:1	0.09	3570.00	638000	DFT-s-OFDM	0.0	14.0	12.86	50	0	Right	5	0.000	1.300	0.000	0.000	0.000		52.8		
Body	NR Band n48	40	QPSK	6	787882609	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	14.0	12.86	50	0	Left	5	0.043	1.300	0.006	0.006	0.001		26.5		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 11-57
NR Band n48 Antenna 7 – No Motion| Plot A49

Exposure	Band / Mode	Bandwidth [kHz]	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	NR Band n48	40	7	N/A	4T0902609	1:1	0.09	3570.00	638000	CW/SRS	19.0	18.45	Back	25	0.017	1.135	0.019	0.143	0.089		36.1		
Body	NR Band n48	40	7	N/A	4T0902609	1:1	0.06	3570.00	638000	CW/SRS	19.0	18.45	Top	25	0.016	1.135	0.019	0.135	0.084		26.4		
Body	NR Band n48	40	7	N/A	4T0902609	1:1	0.01	3570.00	638000	CW/SRS	19.0	18.45	Bottom	0	0.080	1.135	0.091	0.673	0.421	Plot	29.4	27.7	27.7
Body	NR Band n48	40	7	N/A	4T0902609	1:1	0.01	3570.00	638000	CW/SRS	19.0	18.45	Right	25	0.000	1.135	0.000	0.000	0.000		58.4		
Body	NR Band n48	40	7	Keycard	4T0902609	1:1	0.03	3679.98	645232	CW/SRS	19.0	17.76	Left	25	0.100	1.135	0.100	0.086	0.626		27.7		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT															Body								
Spatial Peak															1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population															averaged over 1 gram								

Table 11-58
NR Band n48 Antenna 7 – Motion| Plot A50

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	NR Band n48	40	7	N/A	787882609	1:1	0.04	3570.00	638000	CW/SRS	14.0	12.99	Back	5	0.042	1.262	0.053	0.053	0.033		26.7		
Body	NR Band n48	40	7	N/A	787882609	1:1	0.05	3570.00	638000	CW/SRS	14.0	12.99	Top	5	0.001	1.262	0.001	0.001	0.001		42.9		
Body	NR Band n48	40	7	N/A	787882609	1:1	0.00	3570.00	638000	CW/SRS	14.0	12.99	Bottom	5	0.025	1.262	0.032	0.032	0.020		29.0	15.3	13.0
Body	NR Band n48	40	7	N/A	787882609	1:1	0.01	3570.00	638000	CW/SRS	14.0	12.99	Right	5	0.006	1.262	0.008	0.008	0.005		35.2		
Body	NR Band n48	40	7	Keyboard	787882609	1:1	0.10	3679.98	645132	CW/SRS	14.0	12.72	Left	5	0.542	1.343	0.728	0.728	0.435	Plot	15.3		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

FCC ID: C3K2114	RF Exposure Part 1 Test Report				Approved by: Technical Manager
Document S/N: 1M2606300059-01.C3K (Rev1)	DUT Type: Wireless Module	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo			Page 91 of 103



Table 11-59
NR Band n48 Antenna 8 – No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body	NR Band n48	40	8	N/A	47DQ2609	1-1	-0.01	3570.00	638000	CW/SRS	19.0	18.51	Back	25	0.016	1.119	0.016	0.152	0.095		36.4		
Body	NR Band n48	40	8	N/A	47DQ2609	1-1	0.09	3570.00	638000	CW/SRS	19.0	18.51	Top	25	0.017	1.119	0.019	0.162	0.101		36.2		
Body	NR Band n48	40	8	N/A	47DQ2609	1-1	0.17	3570.00	638000	CW/SRS	19.0	18.51	Bottom	0	0.028	1.119	0.031	0.267	0.167		34.0		
Body	NR Band n48	40	8	Keyboard	47DQ2609	1-1	0.16	3624.99	641566	CW/SRS	19.0	18.16	Right	25	0.095	1.113	0.115	0.981	0.613		28.3		
Body	NR Band n48	40	8	N/A	47DQ2609	1-1	0.03	3570.00	638000	CW/SRS	19.0	18.51	Left	25	0.000	1.119	0.000	0.000	0.000		58.5		
ANSI/IEEE C95.1 1982 - SAFETY LIMIT															Body		1.6 W/kg (mW/g)		Spatial Peak				
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g)		averaged over 1 gram						

Table 11-60
NR Band n48 Antenna 8 – Motion

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Accessory	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body	NR Band n48	40	8	N/A	787B82609	1-1	-0.03	3570.00	638000	CW/SRS	14.0	13.39	Back	5	0.075	1.151	0.086	0.086	0.054		24.6		
Body	NR Band n48	40	8	N/A	787B82609	1-1	0.08	3570.00	638000	CW/SRS	14.0	13.39	Top	5	0.005	1.151	0.006	0.006	0.004		36.4		
Body	NR Band n48	40	8	N/A	787B82609	1-1	0.06	3570.00	638000	CW/SRS	14.0	13.39	Bottom	5	0.023	1.151	0.026	0.026	0.016		29.7		
Body	NR Band n48	40	8	Keyboard	787B82609	1-1	0.08	3614.99	641566	CW/SRS	14.0	13.17	Right	5	0.464	1.125	0.548	0.168	0.375		19.4	13.0	
Body	NR Band n48	40	8	N/A	787B82609	1-1	0.06	3570.00	638000	CW/SRS	14.0	13.39	Left	5	0.000	1.151	0.000	0.000	0.000		53.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body		1.6 W/kg (mW/g)		Spatial Peak				
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g)		averaged over 1 gram						

11.26 NR Band n77 Standalone SAR

Table 11-61
NR Band n77 Antenna 1 – No Motion | Plot A51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body	NR Band n77	100	QPSK	1	787B82609	1-1	0.09	3750.00	650000	DFT-s-OFDM	0.0	27.0	26.20	1	1	Back	25	0.520	1.239	0.644	0.468		Plot	28.9		
Body	NR Band n77	100	QPSK	1	787B82609	1-1	0.07	3750.00	650000	DFT-s-OFDM	0.0	27.0	26.07	1	1	Top	25	0.821	1.239	0.807	0.636			26.1		
Body	NR Band n77 DoD	100	QPSK	1	787B82609	1-1	0.08	3650.01	633334	DFT-s-OFDM	0.0	27.0	26.25	1	271	Bottom	0	0.089	1.189	0.099	0.099	0.062		37.0		
Body	NR Band n77	100	QPSK	1	787B82609	1-1	0.04	3930.00	662000	DFT-s-OFDM	0.0	27.0	26.17	1	137	Bottom	0	0.096	1.211	0.120	0.120	0.075		36.2		
Body	NR Band n77	100	QPSK	1	787B82609	1-1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	27.0	25.88	135	69	Bottom	0	0.086	1.284	0.105	0.105	0.066		36.1		
Body	NR Band n77	100	QPSK	1	787B82609	1-1	0.02	3930.00	662000	CP-OFDM	1.5	25.5	24.60	1	1	Bottom	0	0.073	1.230	0.090	0.124	0.078		35.9		
Body	NR Band n77	100	QPSK	1	787B82609	1-1	0.02	3750.00	650000	DFT-s-OFDM	0.0	27.0	25.15	135	69	Right	25	0.244	1.403	0.342	0.342	0.214		31.6		
Body	NR Band n77	100	QPSK	1	787B82609	1-1	-0.12	3750.00	650000	DFT-s-OFDM	0.0	27.0	25.33	135	69	Left	25	0.047	1.403	0.066	0.066	0.041		38.8		
ANSI/IEEE C95.1 1982 - SAFETY LIMIT															Body		1.6 W/kg (mW/g)		Spatial Peak							
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g)		averaged over 1 gram									

Table 11-62
NR Band n77 Antenna 1 – Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body	NR Band n77	100	QPSK	1	47DQ2609	1-1	0.05	3750.00	650000	DFT-s-OFDM	0.0	12.8	11.18	270	0	Back	5	0.363	1.452	0.527	0.527	0.329		15.5		
Body	NR Band n77	100	QPSK	1	47DQ2609	1-1	0.03	3750.00	650000	DFT-s-OFDM	0.0	12.8	11.44	1	1	Top	5	0.451	1.368	0.590	0.590	0.369	15.0			
Body	NR Band n77 DoD	100	QPSK	1	47DQ2609	1-1	0.03	3650.01	633334	DFT-s-OFDM	0.0	12.8	12.04	135	0	Top	5	0.570	1.191	0.441	0.441	0.276		16.3		
Body	NR Band n77	100	QPSK	1	47DQ2609	1-1	0.07	3750.00	650000	DFT-s-OFDM	0.0	12.8	11.44	1	1	Bottom	5	0.006	1.368	0.000	0.000	0.000		36.1		
Body	NR Band n77	100	QPSK	1	47DQ2609	1-1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	12.8	11.34	135	0	Right	5	0.078	1.400	0.109	0.109	0.068		24.4		
Body	NR Band n77	100	QPSK	1	47DQ2609	1-1	0.02	3750.00	650000	DFT-s-OFDM	0.0	12.8	11.34	135	0	Left	5	0.001	1.400	0.001	0.001	0.001		41.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body		1.6 W/kg (mW/g)		Spatial Peak							
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g)		averaged over 1 gram									

Table 11-63
NR Band n77 Antenna 6 – No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body	NR Band n77	100	QPSK	6	787B82609	1-1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	27.0	25.01	135	69	Back	25	0.208	1.581	0.629	0.897	0.622		29.0		
Body	NR Band n77	100	QPSK	6	787B82609	1-1	0.02	3750.00	650000	DFT-s-OFDM	0.0	27.0	25.01	135	69	Top	25	0.117	1.581	0.185	0.293	0.183		34.3		
Body	NR Band n77 DoD	100	QPSK	6	787B82609	1-1	-0.06	3650.01	633334	DFT-s-OFDM	0.0	27.0	25.11	1	271	Bottom	0	0.075	1.409	0.105	0.168	0.105		36.7		
Body	NR Band n77	100	QPSK	6	787B82609	1-1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	27.0	25.29	1	1	Bottom	0	0.090	1.483	0.133	0.212	0.133		35.7		
Body	NR Band n77	100	QPSK	6	787B82609	1-1	-0.15	3930.00	662000	DFT-s-OFDM	0.0	27.0	25.11	135	69	Bottom	0	0.093	1.545	0.144	0.228	0.143		35.4		
Body	NR Band n77	100	QPSK	6	787B82609	1-1	-0.05	3930.00	662000	CP-OFDM	1.5	25.5	23.78	1	1	Bottom	0	0.069	1.486	0.103	0.230	0.144		35.3		
Body	NR Band n77	100	QPSK	6	787B82609	1-1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	27.0	25.01	135	69	Right	25	0.066	1.581	0.090	0.103	0.089		47.2		
Body	NR Band n77	100	QPSK	6	787B82609	1-1	0.12	3750.00	650000	DFT-s-OFDM	0.0	27.0	25.01	135	69	Left	25	0.118	1.581	0.250	0.396	0.248		33.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body		1.6 W/kg (mW/g)		Spatial Peak							
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g)		averaged over 1 gram									

Table 11-64
NR Band n77 Antenna 6 – Motion

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body	NR Band n77 DoD	100	QPSK	6	47DQ2609	1-1	0.05	3600.01	633334	DFT-s-OFDM	0.0	14.2	12.48	1	271	Back	5	0.209	1.255	0.364	0.364	0.228				
Body	NR Band n77	100	QPSK	6	47DQ2609	1-1	0.07	3750.00	650000	DFT-s-OFDM	0.0	14.2	12.58	135	0	Back	5	0.446	1.521	0.739	0.739	0.462				
Body	NR Band n77	100	QPSK	6	47DQ2609	1-1	0.07	3930.00	662000	DFT-s-OFDM	0.0	14.2	12.55	135	0	Back	5	0.059	1.429	0.084	0.084	0.053				
Body	NR Band n77	100	QPSK	6	47DQ2609	1-1	0.08	3930.00	662000	DFT-s-OFDM	0.0	14.2	12.59	1	1	Bottom	5	0.002	1.449	0.003	0.003	0.002				
Body	NR Band n77	100	QPSK	6	47DQ2609	1-1	0.02	3930.00	662000	DFT-s-OFDM	0.0	14.2	12.45	135	0	FRONT	5	0.000	1.429	0.000	0.000	0.000				
Body	NR Band n77	100	QPSK	6	47DQ2609	1-1	0.01	3930.00	662000	DFT-s-OFDM	0.0	14.2	12.45	135	0	Left	5	0.001	1.429	0.077	0.077	0.048				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		1.6 W/kg (avg) over 1 gram								
Uncontrolled Exposure (General Population)																		0.4 W/kg (avg) over 1 gram								

Table 11-65
NR Band n77 Antenna 7 – No Motion| Plot A52

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body	NR Band n77	100	7	78T882609	1:1	-0.08	3930.00	662000	CW/SRS	27.0	26.12	Back	25	0.168	1.225	0.206	0.206	0.129		33.8		
Body	NR Band n77	100	7	78T882609	1:1	0.10	3930.00	662000	CW/SRS	27.0	26.12	Top	25	0.032	1.225	0.039	0.039	0.024		41.0		
Body	NR Band n77 DoD	100	7	4TDQ2609	1:1	0.00	3500.01	633334	CW/SRS	27.0	26.61	Bottom	0	0.330	1.094	0.361	0.361	0.226		31.4		
Body	NR Band n77	100	7	4TDQ2609	1:1	-0.12	3750.00	650000	CW/SRS	27.0	25.96	Bottom	0	0.930	1.271	1.182	1.182	0.739	Plot	26.2	26.2	
Body	NR Band n77	100	7	4TDQ2609	1:1	0.00	3750.00	650000	CW/SRS	27.0	25.96	Bottom	0	0.930	1.271	1.182	1.182	0.739		26.2		26.2
Body	NR Band n77	100	7	4TDQ2609	1:1	0.09	3930.00	662000	CW/SRS	27.0	26.12	Bottom	0	0.453	1.225	0.555	0.555	0.347		29.5		
Body	NR Band n77	100	7	78T882609	1:1	0.06	3930.00	662000	CW/SRS	27.0	26.12	Right	25	0.005	1.225	0.006	0.006	0.004		49.1		
Body	NR Band n77	100	7	78T882609	1:1	0.09	3930.00	662000	CW/SRS	27.0	26.12	Left	25	0.396	1.225	0.485	0.485	0.303		30.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 11-66
NR Band n77 Antenna 7 – Motion

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body	NR Band n77	100	7	4TDQ2609	1:1	0.08	3930.00	662000	CW/SRS	14.0	12.68	Back	5	0.054	1.355	0.073	0.073	0.046		25.3		
Body	NR Band n77	100	7	4TDQ2609	1:1	0.02	3930.00	662000	CW/SRS	14.0	12.68	Top	5	0.002	1.355	0.003	0.003	0.002		39.6		
Body	NR Band n77	100	7	4TDQ2609	1:1	0.03	3930.00	662000	CW/SRS	14.0	12.68	Bottom	5	0.022	1.355	0.030	0.030	0.019		29.2		
Body	NR Band n77	100	7	4TDQ2609	1:1	0.08	3930.00	662000	CW/SRS	14.0	12.68	Right	5	0.004	1.355	0.005	0.005	0.003		36.6	18.2	13.0
Body	NR Band n77 DoD	100	7	4TDQ2609	1:1	0.08	3500.01	633334	CW/SRS	14.0	13.09	Left	5	0.306	1.233	0.377	0.377	0.236		18.2		
Body	NR Band n77	100	7	4TDQ2609	1:1	-0.14	3930.00	662000	CW/SRS	14.0	12.68	Left	5	0.255	1.355	0.346	0.346	0.216		18.6		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Table 11-67
NR Band n77 Antenna 8 – No Motion

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body	NR Band n77	100	8	78T882609	1:1	0.12	3930.00	662000	CW/SRS	25.0	23.87	Back	25	0.111	1.297	0.144	0.181	0.113		33.4		
Body	NR Band n77	100	8	78T882609	1:1	0.05	3930.00	662000	CW/SRS	25.0	23.87	Top	25	0.130	1.297	0.169	0.212	0.133		32.7		
Body	NR Band n77 DoD	100	8	4TDQ2609	1:1	-0.04	3500.01	633334	CW/SRS	25.0	24.22	Bottom	0	0.298	1.197	0.285	0.359	0.224		30.4		
Body	NR Band n77	100	8	4TDQ2609	1:1	-0.20	3930.00	662000	CW/SRS	25.0	23.87	Bottom	0	0.112	1.297	0.145	0.183	0.114		33.3	26.0	26.0
Body	NR Band n77	100	8	78T882609	1:1	0.00	3930.00	662000	CW/SRS	25.0	23.87	Right	25	0.603	1.297	0.782	0.985	0.616		26.0		
Body	NR Band n77	100	8	78T882609	1:1	0.08	3930.00	662000	CW/SRS	25.0	23.87	Left	25	0.004	1.297	0.005	0.007	0.004		47.8		
AND/IEEE C95.1.1992 - SAFETY LIMIT														1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak																						
Uncontrolled Exposure/General Population																						

Table 11-68
NR Band n77 Antenna 8 – Motion

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body	NR Band n77	100	8	4TDQ2609	1:1	0.01	3930.00	662000	CW/SRS	14.0	13.02	Back	5	0.096	1.253	0.120	0.120	0.075		23.1		
Body	NR Band n77	100	8	4TDQ2609	1:1	0.04	3930.00	662000	CW/SRS	14.0	13.02	Top	5	0.018	1.253	0.023	0.023	0.014		30.4		
Body	NR Band n77	100	8	4TDQ2609	1:1	-0.12	3930.00	662000	CW/SRS	14.0	13.02	Bottom	5	0.015	1.253	0.019	0.019	0.012		31.2		
Body	NR Band n77 DoD	100	8	4TDQ2609	1:1	0.04	3500.01	633334	CW/SRS	14.0	13.36	Right	5	0.511	1.159	0.592	0.592	0.370		16.2	14.2	13.0
Body	NR Band n77	100	8	4TDQ2609	1:1	-0.04	3930.00	662000	CW/SRS	14.0	13.02	Right	5	0.752	1.253	0.942	0.942	0.589		14.2		
Body	NR Band n77	100	8	4TDQ2609	1:1	0.03	3930.00	662000	CW/SRS	14.0	13.02	Left	5	0.000	1.253	0.000	0.000	0.000		53.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body								
Spatial Peak														1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population														averaged over 1 gram								

11.27 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 447498 D04v01, and FCC KDB Publication 616217 D04v01r02.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- 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 12 for variability analysis.

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7. This device uses Qualcomm Smart Transmit TAS for WWAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
8. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of device with the device touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
9. Per FCC KDB 616217 D04, SAR is evaluated for the bottom surface of a keyboard when it is attached to the DUT in Power Mode 1 configuration.
10. Per FCC Guidance, SAR tests are required for the back surface and edges of the device with the device 25mm away from the phantom when the motion sensor is not active. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
11. Per FCC KDB 648474 D04, highest reported SAR Power Mode 2 configuration for a transmission band on an antenna was additionally evaluated with keyboard accessory attached and folded back at 360°
12. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.

UMTS Notes:

13. 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.
14. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 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 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported LTE Band 41 or LTE Band 48 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. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 13 **Error! Reference source not found.** for linearity results.
8. For LTE Band 5, LTE Band 66, LTE Band 2, LTE Band 48, and LTE Band 41, per FCC guidance, 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

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configuration with the highest 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.

NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n77 C-Band SAR measured at the highest output power channel in a given a test configuration was $> 0.4 \text{ W/kg}$ for 1g evaluations and $> 1 \text{ W/kg}$ for 10g evaluation, testing at the other channels was required for such test configurations.
7. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n41 SAR measured at the highest output power channel in a given a test configuration was $> 0.6 \text{ W/kg}$ for 1g evaluations and $> 1 \text{ W/kg}$ for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

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

Table 12-1

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing (mm)	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)
3750	3750.00	650000	NR Band n77	CW/SRS	Bottom	0	7	0.930	0.927	1.00	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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13 ADDITIONAL TESTING PER FCC GUIDANCE

13.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

The linearity assessment was performed by comparing the measured SAR values between Power Class 2 and Power Class 3 using the corresponding frame-averaged output powers for each test configuration. The measured SAR values for the Power Class 2 and Power Class 3 linearity evaluations were 0.026 W/kg and 0.036 W/kg for the LTE Band 41 configuration, and 0.029 W/kg and 0.009 W/kg for the LTE Band 41 ULCA configuration. Although the calculated percentage deviations exceeded the nominal linearity criterion for some configurations, the absolute SAR differences between the corresponding Power Class 2 and Power Class 3 measurements remained very small (maximum difference: 0.020 W/kg). At these very low SAR levels, minor absolute measurement variations can result in disproportionately large percentage deviations. Therefore, the observed deviations are not considered indicative of a meaningful departure from the expected linear relationship between Power Class 2 and Power Class 3 operation.

Table 13-1
LTE Band 41 Ant 6 Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.5	27.0
Measured Output Power (dBm)	24.13	26.18
Measured SAR (W/kg)	0.026	0.036
Measured Power (mW)	258.82	414.95
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	163.83	179.68
% deviation from expected linearity		26.25%

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Figure 13-1
LTE Band 41 Ant 6 Linearity

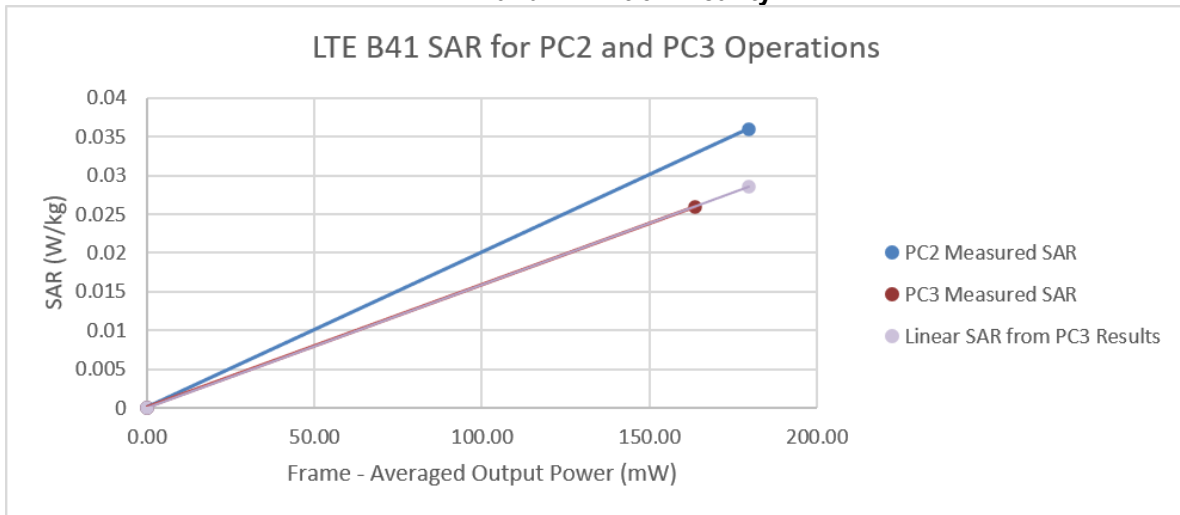
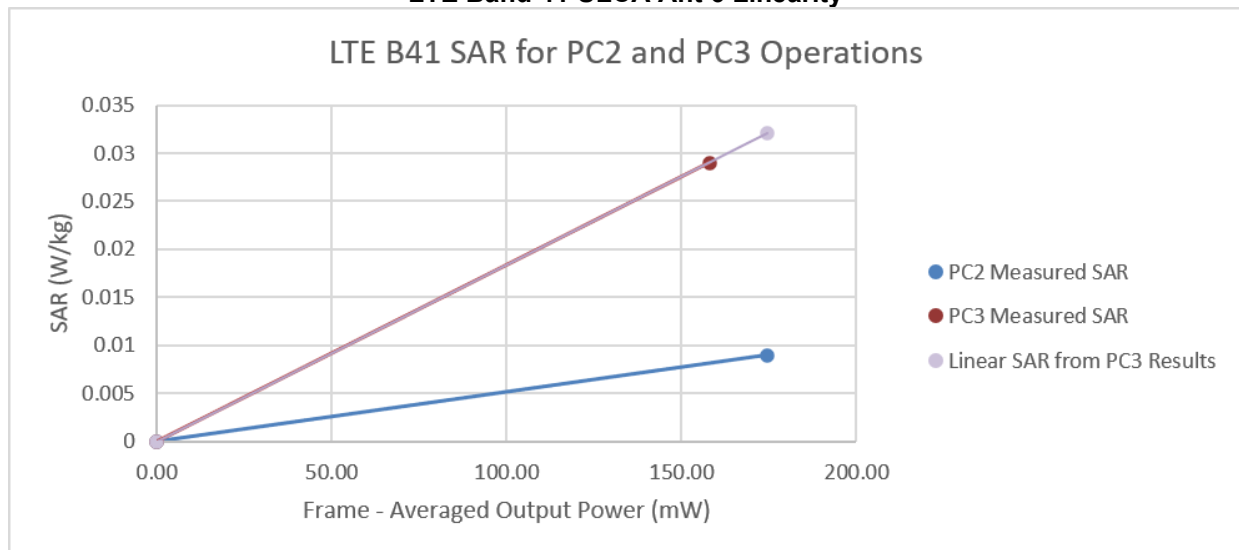


Table 13-2
LTE Band 41 ULCA Ant 6 Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.5	27.0
Measured Output Power (dBm)	23.97	26.05
Measured SAR (W/kg)	0.029	0.009
Measured Power (mW)	249.46	402.72
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	157.91	174.38
% deviation from expected linearity		-71.90%

Figure 13-2
LTE Band 41 ULCA Ant 6 Linearity



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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/2/2025	Annual	11/2/2026	MY45093852
Agilent	N5182A	MXG Vector Signal Generator	4/13/2026	Annual	4/13/2027	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MY40003841
Agilent	8753ES	S-Parameter Vector Network Analyzer	10/27/2025	Annual	10/27/2026	US39170118
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	8/21/2025	Annual	8/21/2026	1138001
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1027293
Insize	1108-150	Insize - Digital Caliper	1/7/2026	Annual	1/7/2027	1410255640
Anritsu	MA24106A	USB Power Sensor	2/20/2026	Annual	2/20/2027	1827529
Anritsu	MA24106A	USB Power Sensor	2/20/2026	Annual	2/20/2027	1520501
Mini-Circuits	PWR-4GHS	9-KHz-4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12503270057
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770121
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770096
Control Company	4040	Therm./ Clock/ Humidity Monitor	12/29/2025	Biennial	12/29/2027	250778120
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/24/2025	Biennial	10/24/2027	250652331
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY48010233
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VL6-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VL6-6000+	Low Pass Filter DC to 6000 MHz	7/3/2025	Annual	7/3/2026	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	81552
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	109366
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	155128
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	9/1/2025	Annual	9/1/2026	162125
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/14/2025	Annual	8/14/2026	164948
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	D750V3	750 MHz SAR Dipole	3/4/2025	Biennial	3/4/2027	1054
SPEAG	D750V3	750 MHz SAR Dipole	10/7/2024	Biennial	10/7/2026	1161
SPEAG	D835V2	835 MHz SAR Dipole	3/4/2025	Biennial	3/4/2027	40047
SPEAG	D835V2	835 MHz SAR Dipole	3/11/2024	Triennial	3/11/2027	4d133
SPEAG	D1750V2	1750 MHz SAR Dipole	1/13/2025	Biennial	1/13/2027	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	11/7/2024	Biennial	11/7/2026	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	2/7/2025	Biennial	2/7/2027	50148
SPEAG	D1900V2	1900 MHz SAR Dipole	8/7/2025	Annual	8/7/2026	50080
SPEAG	D2300V2	2300 MHz SAR Dipole	6/14/2024	Biennial	6/14/2026	1116
SPEAG	D2300V2	2300 MHz SAR Dipole	8/12/2025	Annual	8/12/2026	1073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/7/2024	Biennial	8/7/2026	719
SPEAG	D2450V2	2450 MHz SAR Dipole	10/7/2025	Annual	10/7/2026	797
SPEAG	D2600V2	2600 MHz SAR Dipole	11/10/2025	Annual	11/10/2026	1071
SPEAG	D3500V2	3500 MHz SAR Dipole	1/14/2026	Annual	1/14/2027	1097
SPEAG	D3700V2	3700 MHz SAR Dipole	1/14/2026	Annual	1/14/2027	1067
SPEAG	D3900V2	3900 MHz SAR Dipole	6/10/2024	Triennial	6/10/2027	1073
SPEAG	D3900V2	3900 MHz SAR Dipole	10/19/2023	Triennial	10/19/2026	1056
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/9/2026	Annual	3/9/2027	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/5/2025	Annual	11/5/2026	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2026	Annual	2/9/2027	859
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	1/8/2026	Annual	1/8/2027	1639
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/13/2025	Annual	10/13/2026	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/10/2026	Annual	3/10/2027	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/14/2026	Annual	4/14/2027	1272
SPEAG	EX3DV4	SAR Probe	3/11/2026	Annual	3/11/2027	7488
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
SPEAG	EX3DV4	SAR Probe	2/11/2026	Annual	2/11/2027	7570
SPEAG	EX3DV4	SAR Probe	2/11/2026	Annual	2/11/2027	7417
SPEAG	EX3DV4	SAR Probe	10/13/2025	Annual	10/13/2026	7670
SPEAG	EX3DV4	SAR Probe	3/11/2026	Annual	3/11/2027	7539
SPEAG	EX3DV4	SAR Probe	4/15/2026	Annual	4/15/2027	7659

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

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15 MEASUREMENT UNCERTAINTIES

Applicable for SAR Measurements on a flat phantom:

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

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

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16 CONCLUSION

16.1 Measurement Conclusion

The SAR evaluation indicates that the DUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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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. Hartsgrrove, 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, Computermathematik, 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.
- [18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz, Jan. 1995.

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- [19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hochschule 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 Power Mode 1, Notebook, Netbook and Power Mode 2 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 Setembro 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.

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