



TEST REPORT

No. 25T04N000127-011-SAR

For

Realme Chongqing Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model Name: RMX5061

With

Hardware Version: 11

Software Version: realme UI 6.0

FCC ID: 2AUYFRMX5061

Issued Date: 2025-04-18

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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No. 25T04N000127-011-SAR

REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04N000127-011-SAR	Rev.0	1st edition	2025-04-18



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1. Summary of Test Report

1.1. Test Items

Description:	Mobile Phone
Model Name:	RMX5061
Applicant's Name:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Manufacturer's Name:	Realme Chongqing Mobile Telecommunications Corp., Ltd.

1.2. Test Standards

ANSI C95.1:1992, IEEE Std 1528:2013

1.3. Test Result

Pass. Please refer to "13. Summary of Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project Data

Testing Start Date: 2025-02-25

Testing End Date: 2025-04-02

1.6. Signature

Li Yongfu

(Prepared this test report)

Liu Jian

(Reviewed this test report)

Cao Junfei

(Approved this test report)



2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Realme Chongqing Mobile Telecommunications Corp., Ltd. Mobile Phone RMX5061 are as follows:

Table 2.1: Highest Reported SAR

Equipment Class	Frequency Bands	1g SAR (W/kg)			10g SAR (W/kg)
		Head (Separation 0mm)	Hotspot (Separation 10mm)	Body-worn (Separation 15mm)	Extremity (Separation 0mm)
PCE	GSM 850	0.20	0.43	0.28	/
	GSM 1900	0.06	0.51	0.17	/
	WCDMA Band 2	1.12	0.95	0.29	/
	WCDMA Band 4	0.71	1.03	0.25	/
	WCDMA Band 5	0.74	0.96	0.48	/
	LTE Band 2	1.16	0.65	0.26	/
	LTE Band 7	1.03	0.66	0.26	/
	LTE Band 12/17	1.07	0.89	0.37	/
	LTE Band 13	1.13	0.95	0.41	/
	LTE Band 26/5	0.66	1.07	0.44	/
	LTE Band 66/4	1.14	1.03	0.35	/
	LTE Band 38	1.19	0.86	0.37	/
	LTE Band 41	0.89	0.88	0.27	/
	NR n2	0.88	0.61	0.32	/
	NR n5	0.82	0.66	0.33	/
	NR n7	1.16	0.97	0.31	/
	NR n66	1.01	1.02	0.38	/
	NR n38	0.94	0.98	0.35	/
	NR n41	1.19	1.11	0.44	/
DSS	Bluetooth	0.51	0.19	0.08	/
DTS	WLAN 2.4GHz	0.55	0.38	0.08	/
NII	WLAN 5GHz	1.06	0.57	0.49	1.20
Maximum Simultaneous Transmission SAR		1.58	1.55	1.28	/

This device is in compliance with Specific Absorption Rate (SAR) for general population/ uncontrolled exposure limits (1.6 W/kg for Head/Body 1g SAR, 4.0 W/kg for Extremity 10g SAR) specified in ANSI C95.1:1992.

The highest reported SAR value is obtained at the case of (**Table 2.1**), Head value is **1.19 W/kg (1g)**, Hotspot value is **1.11 W/kg (1g)**, Body-worn value is **0.49 W/kg (1g)** and Extremity SAR value is **1.20 W/kg (10g)**.



3. Client Information

3.1. Applicant Information

Company Name:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Contact:	Huang MinJiang
Email:	mega@realme.com
Telephone:	(86)18502096102

3.2. Manufacturer Information

Company Name:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Contact:	Huang MinJiang
Email:	mega@realme.com
Telephone:	(86)18502096102



4. Equipment under Test (EUT) and Ancillary Equipment (AE)

4.1. About EUT

Description:	Mobile Phone
Model Name:	RMX5061
Condition of EUT as received:	No obvious damage in appearance
Frequency Bands:	GSM 850/900/1800/1900, WCDMA Band 1/2/4/5/6/8/19, LTE Band 1/2/3/4/5/7/8/12/13/17/18/19/20/26/28/38/39/ 40/41/66/71, NR FR1: n1/2/3/5/7/8/20/26/28/38/40/41/66/71/77/78, Bluetooth, WLAN 2.4GHz/5GHz, NFC
Tested Tx Frequency:	824 – 849MHz (GSM 850)
	1850 – 1910MHz (GSM 1900)
	1850 – 1910MHz (WCDMA Band 2)
	1710 – 1755MHz (WCDMA Band 4)
	824 – 849MHz (WCDMA Band 5)
	1850 – 1910MHz (LTE Band 2)
	1710 – 1755MHz (LTE Band 4)
	824 – 849MHz (LTE Band 5)
	2500 – 2570MHz (LTE Band 7)
	699 – 716MHz (LTE Band 12)
	777 – 787MHz (LTE Band 13)
	704 – 716MHz (LTE Band 17)
	814 – 849MHz (LTE Band 26)
	2570 – 2620MHz (LTE Band 38)
	2496 – 2690MHz (LTE Band 41)
	1710 – 1780MHz (LTE Band 66)
	1850 – 1910MHz (NR n2)
	824 – 849MHz (NR n5)
	2500 – 2570MHz (NR n7)
	2570 – 2620MHz (NR n38)
	2496 – 2690MHz (NR n41)
	1710 – 1780MHz (NR n66)
	2402 – 2480MHz (Bluetooth)
	2412 – 2462MHz (WLAN 2.4GHz)
	5150 – 5850MHz (WLAN 5GHz)
	13.56MHz (NFC)
GPRS/EDGE Multislot Class:	12
GPRS Capability Class:	B
Dual Transfer Mode (DTM)	Not support
Test device Production information:	Production unit



Device type:	Portable device
Antenna type:	PIFA antenna
Hotspot mode:	Support
Product Dimensions:	Long 162.42mm; Wide 75.97mm; Overall Diagonal 172.70mm
Note: 1. LTE Band 40/71 and NR n26/n40/n71/n77/n78 be disabled by software. 2. This device WLAN 5GHz U-NII-2A and U-NII-2C don't support hotspot operation. 3. This device support the receiver detection mechanism, the main purpose is to minimize triggering associated with power reduction scenarios by receiver detection mechanisms and provide enhanced user experience. It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for 2G&3G&4G&5G and WLAN antennas accordingly.	

*Since the information of samples in this report is provided by the client, the laboratory is not responsible for the authenticity of sample information.

4.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receipt Date
UT01aa	866636070019835	11	realme UI 6.0	2025-02-19
UT02aa	866636070019819	11	realme UI 6.0	2025-02-19
UT03aa	866636070019793	11	realme UI 6.0	2025-02-19
UT04aa	866636070019777	11	realme UI 6.0	2025-02-19
UT05aa	866636070019876	11	realme UI 6.0	2025-02-19
UT06aa	866636070019850	11	realme UI 6.0	2025-02-19

*EUT ID: is used to identify the test sample in the lab internally.

Note: It is performed to test SAR with the UT01aa & UT02aa & UT03aa & UT04aa, and conducted power with the UT05aa & UT06aa.

4.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacturer
AE1	Battery	BLPC47	Dongguan NVT Technology Co., Ltd

*AE ID: is used to identify the test sample in the lab internally.



5. Test Methodology

5.1. Applicable Limit Regulations

ANSI C95.1:1992 IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

5.2. Applicable Measurement Standards

IEEE 1528:2013 Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Experimental Techniques.

KDB 447498 D01 General RF Exposure Guidance v06 RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

KDB 648474 D04 Handset SAR v01r03 SAR Evaluation Considerations for Wireless Handsets.

KDB 941225 D01 SAR test for 3G devices v03r01 SAR Measurement Procedures for 3G Devices

KDB 941225 D05 SAR for LTE Devices v02r05 SAR Evaluation Considerations for LTE Devices

KDB 941225 D06 Hot Spot SAR v02r01 SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

KDB 248227 D01 802.11 Wi-Fi SAR v02r02 SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters.

KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04 SAR Measurement Requirements for 100 MHz to 6 GHz

KDB 865664 D02 RF Exposure Reporting v01r02 RF Exposure Compliance Reporting and Documentation Considerations

KDB 941225 D07 UMPC Mini Tablet v01r02 SAR Evaluation Procedures for UMPC Mini-Tablet Devices

KDB 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02: REL. 10 LTE SAR TEST GUIDANCE AND KDB INQUIRIES

TCB workshop May 2017: RF Exposure Procedures

TCB workshop October 2018: RF Exposure Procedures

TCB workshop April 2019: RF Exposure Procedures

TCB workshop November 2019: RF Exposure Policy Updates

TCB workshop April 2020: RF Exposure Policies and Procedures - Status

TCB workshop October 2020: RF Exposure Procedures

TCB workshop April 2022: RF Exposure Procedures



6. Smart Transmit feature for RF Exposure compliance

The FCC RF exposure limit is defined based on time-averaged RF exposure. The product implements MediaTek Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window for SAR (transmit frequency $\leq 6\text{GHz}$). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

The purpose of the Part 1 test in this report is to demonstrate that the device meets the FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels. The parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit Feature.

WLAN/BT operations are not enabled with Smart Transmit.

Term	Description
P_{limit}	The time-averaged RF power which corresponds to SAR_design_target.
P_{max}	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainties.
SAR Char	P_{limit} for all the technologies/bands for all applicable DSI

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} . Below table shows P_{limit} and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI).

DSI and Corresponding Exposure Scenarios

Scenario	Description
DSI 2	FCC Head (Standalone)
DSI 1	FCC Body (Standalone)
DSI 4	FCC Head (WWAN + WLAN 2.4GHz/WLAN 5GHz/BT)
DSI 3	FCC Body (WWAN + WLAN 2.4GHz/WLAN 5GHz/BT)

<P_{limit} for supported technologies and bands>

Band	Antenna	Standalone Body	Standalone Head	Simultaneous transmission Body	Simultaneous transmission Head	Pmax*
		DSI 1	DSI 2	DSI 3	DSI 4	
GSM 850	0	33.00	33.00	33.00	33.00	33.00
GSM 1900	0	29.25	30.00	29.25	30.00	30.00
WCDMA Band 2	0	21.00	23.00	21.00	23.00	23.00
WCDMA Band 2	4	20.50	18.00	20.50	16.00	23.00
WCDMA Band 4	0	22.00	24.00	22.00	24.00	24.00
WCDMA Band 4	4	20.00	18.50	20.00	16.50	24.00
WCDMA Band 5	0	24.00	24.00	24.00	24.00	24.00
WCDMA Band 5	1	24.00	20.50	24.00	19.00	24.00
LTE Band 2	0	19.50	23.00	19.50	23.00	23.00
LTE Band 2	4	20.00	17.50	20.00	15.50	22.50
LTE Band 4	0	21.45	24.20	21.45	24.20	24.20
LTE Band 4	4	20.30	14.30	20.30	14.30	23.80
LTE Band 4	5	21.95	22.70	21.95	17.20	24.20
LTE Band 4	1	22.00	18.00	22.00	18.00	23.00
LTE Band 5	0	24.20	24.20	24.20	24.20	24.20
LTE Band 5	1	23.20	20.45	23.20	19.20	24.20
LTE Band 7	0	22.00	23.00	22.00	23.00	23.00
LTE Band 7	4	20.75	18.50	20.75	17.00	22.50
LTE Band 7	5	19.00	20.00	19.00	18.50	23.00
LTE Band 7	1	19.70	20.70	19.70	19.20	21.70
LTE Band 12	0	24.20	24.20	24.20	24.20	24.20
LTE Band 12	1	24.20	22.95	24.20	21.45	24.20
LTE Band 13	0	23.00	23.00	23.00	23.00	23.00
LTE Band 13	1	23.00	21.75	23.00	20.25	23.00
LTE Band 17	0	24.20	24.20	24.20	24.20	24.20
LTE Band 17	1	24.20	22.95	24.20	21.45	24.20
LTE Band 26	0	24.20	24.20	24.20	24.20	24.20
LTE Band 26	1	24.20	20.45	24.20	20.45	24.20
LTE Band 66	0	21.45	24.20	21.45	24.20	24.20
LTE Band 66	4	20.30	14.30	20.30	14.30	23.80
LTE Band 66	5	21.95	22.70	21.95	17.20	24.20
LTE Band 66	1	22.00	18.00	22.00	18.00	23.00
LTE Band 38	0	24.20	24.20	24.20	24.20	24.20
LTE Band 38	4	23.25	20.00	23.25	18.50	24.00
LTE Band 38	5	21.20	21.20	21.20	19.70	24.20
LTE Band 38	1	22.80	22.80	22.80	18.30	23.80
LTE Band 41 PC3	0	23.00	23.00	23.00	23.00	23.00
LTE Band 41 PC3	4	20.50	18.00	20.50	16.50	23.00
LTE Band 41 PC3	5	20.00	20.50	20.00	20.50	23.50
LTE Band 41 PC3	1	22.60	20.80	22.60	19.80	22.60
LTE Band 41 PC2	0	26.00	26.00	26.00	26.00	26.00
LTE Band 41 PC2	4	22.30	19.80	22.30	18.30	25.40
LTE Band 41 PC2	5	20.25	21.75	20.25	21.75	26.00
LTE Band 41 PC2	1	24.80	22.30	24.80	20.80	24.80
NR n2	0	19.50	23.00	19.50	23.00	23.00
NR n2	4	20.50	15.50	20.50	14.50	22.50
NR n5	0	24.20	24.20	24.20	24.20	24.20
NR n5	1	22.50	20.20	22.50	18.70	24.20
NR n7	0	23.00	23.00	23.00	23.00	23.00
NR n7	4	21.80	17.50	21.80	16.00	23.00
NR n7	5	19.50	20.50	19.50	19.00	23.00
NR n7	1	21.70	20.70	21.70	16.70	21.70
NR n66	0	21.20	24.20	21.20	24.20	24.20
NR n66	4	21.00	17.50	21.00	15.50	24.00
NR n66	5	22.20	23.20	22.20	19.70	24.20
NR n66	1	22.80	21.80	22.80	19.80	23.80
NR n38	0	24.20	24.20	24.20	24.20	24.20
NR n38	4	22.00	16.70	22.00	15.20	24.20
NR n38	5	19.70	19.70	19.70	18.20	24.20
NR n38	1	21.80	19.80	21.80	16.80	23.80
NR n41 PC2	0	24.50	27.00	24.50	27.00	27.00
NR n41 PC2	4	22.20	16.90	21.20	13.90	26.40
NR n41 PC2	5	20.30	21.00	20.30	19.50	27.00
NR n41 PC2	1	19.70	18.50	19.70	15.50	25.70

Note:

1. When Pmax < P_{limit}, the DUT will operate at a power level up to Pmax.
2. Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + device uncertainty.

7. Specific Absorption Rate (SAR)

7.1. Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

7.2. SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

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

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = c \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

8. Tissue Simulating Liquids

8.1. Targets for tissue simulating liquid

Table 8.1: Targets for tissue simulating liquid

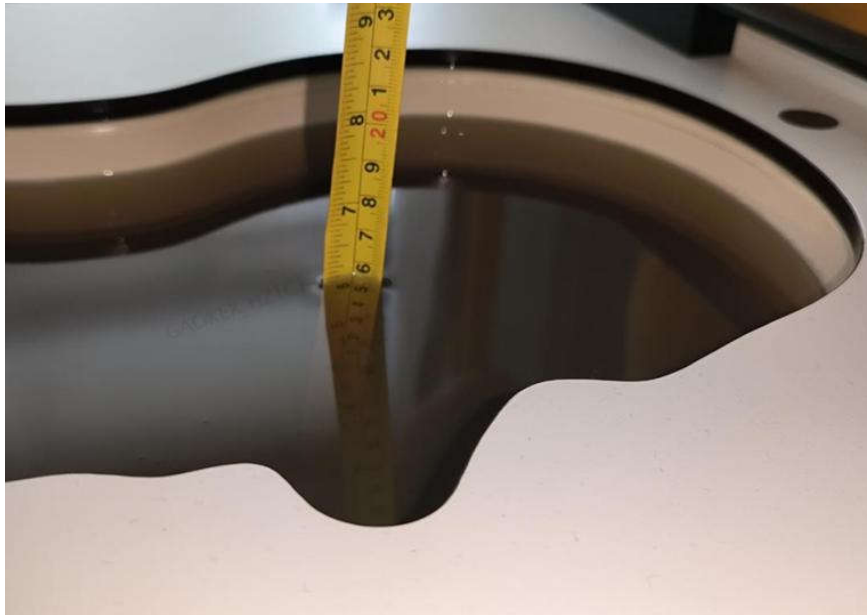
Frequency (MHz)	Liquid Type	Conductivity (σ)	$\pm 5\%$ Range	Permittivity (ϵ)	$\pm 5\%$ Range
13	Head	0.75	0.72~0.78	55.0	52.3~57.7
750	Head	0.89	0.85~0.93	42.0	39.9~44.1
835	Head	0.90	0.86~0.95	41.5	39.4~43.6
1750	Head	1.37	1.30~1.44	40.1	38.1~42.1
1900	Head	1.40	1.33~1.47	40.0	38.0~42.0
2450	Head	1.80	1.71~1.89	39.2	37.2~41.2
2550	Head	1.91	1.81~2.01	39.1	37.1~41.0
5250	Head	4.71	4.47~4.95	35.9	34.1~37.7
5600	Head	5.07	4.82~5.32	35.5	33.8~37.3
5750	Head	5.22	4.96~5.48	35.4	33.6~37.1

8.2. Dielectric Performance

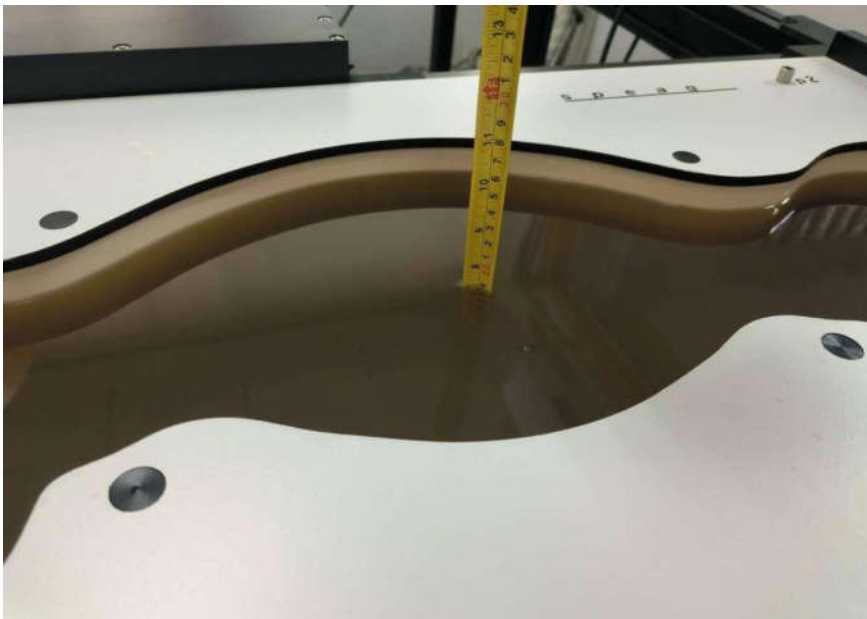
Table 8.2: Dielectric Performance of Tissue Simulating Liquid

Measurement Date (yyyy-mm-dd)	Frequency (MHz)	Conductivity σ (S/m)	Drift (%)	Permittivity ϵ	Drift (%)
2025-03-13	13	0.766	2.13	54.12	-1.60
2025-02-26	750	0.883	-0.79	43.01	2.40
2025-02-27	835	0.919	2.11	40.77	-1.76
2025-03-05	835	0.882	-2.00	42.28	1.88
2025-02-25	1750	1.354	-1.17	40.68	1.45
2025-03-07	1750	1.393	1.68	39.35	-1.87
2025-03-11	1900	1.428	2.00	38.74	-3.15
2025-03-20	1900	1.395	-0.36	40.63	1.58
2025-03-24	2450	1.816	0.89	38.22	-2.50
2025-03-03	2550	1.947	1.94	37.95	-2.94
2025-03-16	2550	1.944	1.78	38.72	-0.97
2025-04-02	2550	1.883	-1.41	39.39	0.74
2025-03-17	5250	4.651	-1.25	36.69	2.20
2025-03-26	5250	4.627	-1.76	36.21	0.86
2025-03-18	5600	5.186	2.29	34.92	-1.63
2025-03-26	5600	4.973	-1.91	36.15	1.83
2025-03-18	5750	5.303	1.59	34.71	-1.95
2025-03-26	5750	5.124	-1.84	35.58	0.51

Note: The liquid temperature is 22.0°C.



Picture 8.1 Liquid depth in the Head Phantom (0.6GHz - 7.5GHz)

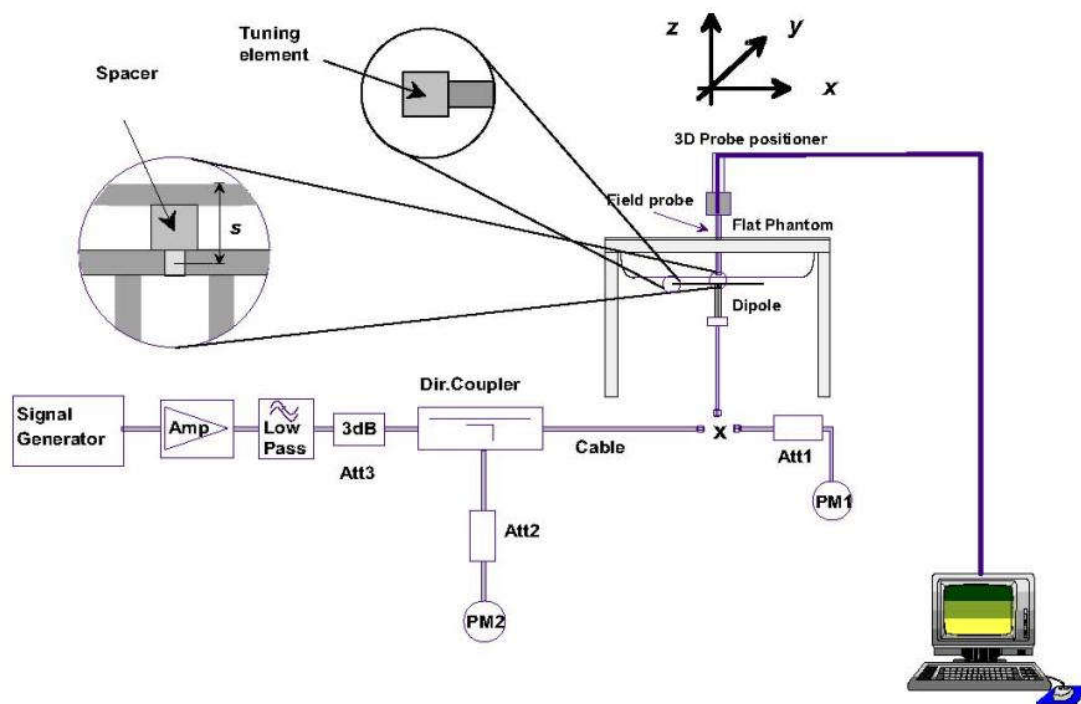


Picture 8.2 Liquid depth in the Flat Phantom (0.6GHz - 7.5GHz)

9. System Check

9.1. System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



Picture 9.1 System Setup for System Evaluation

For the dipole below 6GHz, the output power on dipole port must be calibrated to 17 dBm (50mW) before dipole is connected.

For the dipole above 6GHz, the output power on dipole port must be calibrated to 14 dBm (25mW) before dipole is connected.



Picture 9.2 Photo of Dipole Setup

9.2. System Check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.

Table 9.1: System Check of Head

Measurement Date	Frequency (MHz)	Target value (W/kg)		Measured value (W/kg)				Deviation (%)	
				/		Normalize to 1W			
		1 g	10 g	1 g	10 g	1 g	10 g	1 g	10 g
2025-03-13	13	0.466	0.287	0.479	0.290	0.479	0.290	2.79	1.05
2025-02-26	750	8.48	5.62	0.411	0.275	8.22	5.50	-3.07	-2.14
2025-02-27	835	9.59	6.40	0.494	0.328	9.88	6.56	3.02	2.50
2025-03-05	835	9.59	6.40	0.468	0.316	9.36	6.32	-2.40	-1.25
2025-02-25	1750	36.30	19.60	1.74	0.955	34.80	19.10	-4.13	-2.55
2025-03-07	1750	36.30	19.60	1.86	0.988	37.20	19.76	2.48	0.82
2025-03-11	1900	39.70	20.90	2.08	1.09	41.60	21.80	4.79	4.31
2025-03-20	1900	39.70	20.90	1.93	1.03	38.60	20.60	-2.77	-1.44
2025-03-24	2450	52.70	24.80	2.68	1.25	53.60	25.00	1.71	0.81
2025-03-03	2550	55.00	25.00	2.85	1.27	57.00	25.40	3.64	1.60
2025-03-16	2550	55.00	25.00	2.84	1.28	56.80	25.60	3.27	2.40
2025-04-02	2550	55.00	25.00	2.66	1.22	53.20	24.40	-3.27	-2.40
2025-03-17	5250	79.70	22.80	3.90	1.12	78.00	22.40	-2.13	-1.75
2025-03-26	5250	79.70	22.80	3.82	1.10	76.40	22.00	-4.14	-3.51
2025-03-18	5600	82.60	23.60	4.24	1.20	84.80	24.00	2.66	1.69
2025-03-26	5600	82.60	23.60	4.05	1.17	81.00	23.40	-1.94	-0.85
2025-03-18	5750	78.50	22.10	4.06	1.12	81.20	22.40	3.44	1.36
2025-03-26	5750	78.50	22.10	3.80	1.08	76.00	21.60	-3.18	-2.26

10. Measurement Procedures

10.1. Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

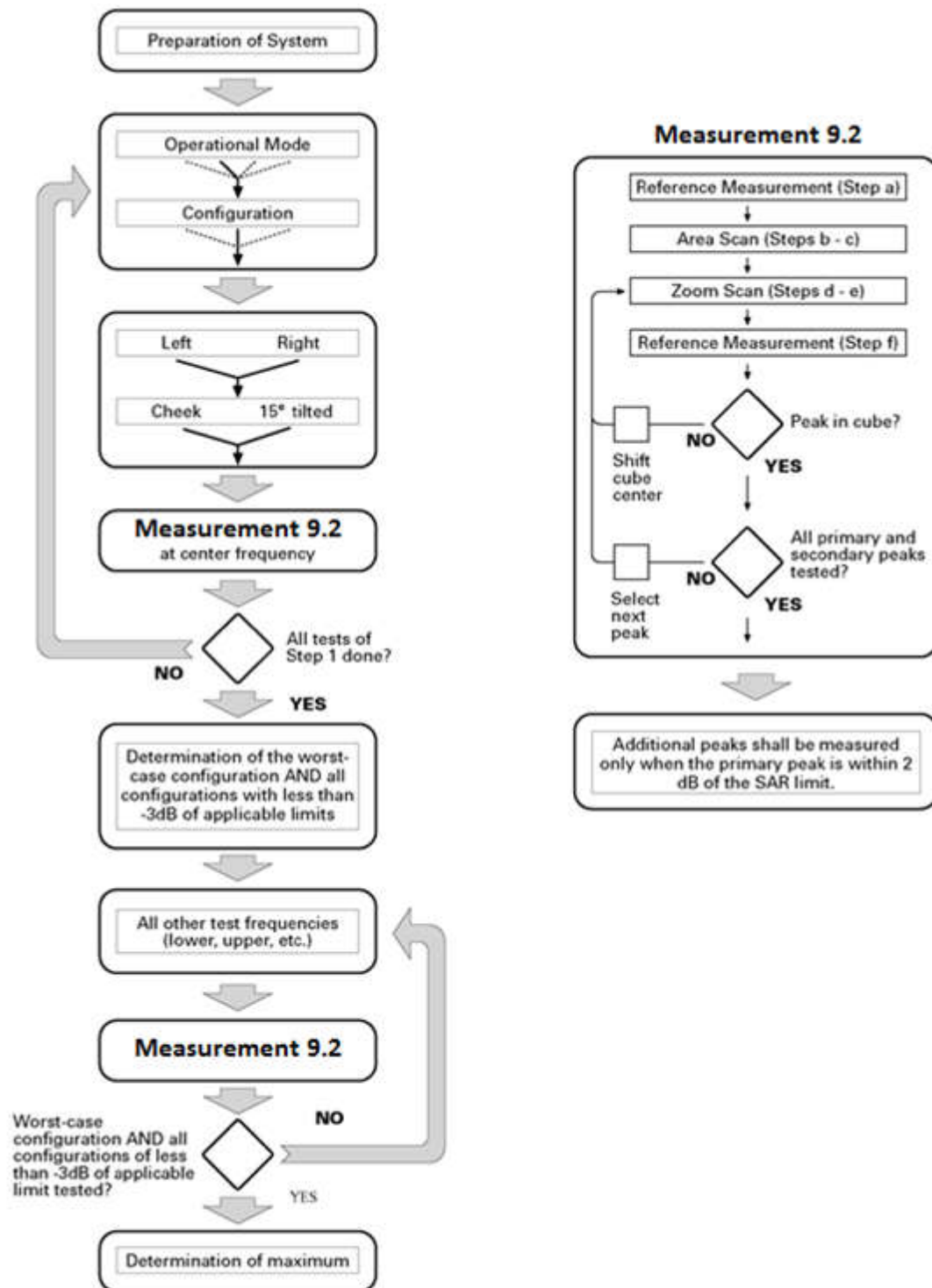
Step 1: The tests described in 9.2 shall be performed at the channel that is closest to the center of the transmit frequency band (f_c) for:

- a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
- b) all configurations for each device position in a), e.g., antenna extended and retracted, and
- c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_C > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

Step 2: For the condition providing highest peak spatial-average SAR determined in Step 1, perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within 3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

Step 3: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.



Picture 10.1 Block diagram of the tests to be performed

10.2. General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

			$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$			$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the area scan based <i>1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

10.3. WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & DPDCH_n), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

For Release 5 HSDPA Data Devices:

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	CM/dB
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15	15/15	64	12/15	24/25	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

For Release 6 HSPA Data Devices

Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	β_{hs}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	12/15	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}:47/15$ $\beta_{ed2}:47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	4/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	24/15	30/15	134/15	4	1	1.0	0.0	21	81

10.4. SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Anristu MT8820C. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the Anristu MT8820C. It is performed for conducted power and SAR based on the KDB941225 D05.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

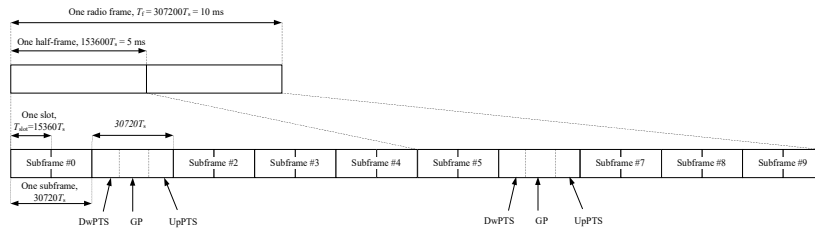
For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

10.5. LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.



Frame structure type 2

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle

Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

Where:

$T_s = 1/(15000 \times 2048)$ seconds



10.6. Bluetooth & WLAN Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

10.7. Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in Section 12 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

11. Conducted Output Power

All conducted power measurements for 2G/3G/4G/5G WWAN technologies and bands in this section were performed by setting Reserve_power_margin (MediaTek Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (P_{limit} , maximum tune up output power P_{max}). The details of test scenarios categorization in the table below.

Summary of power level – WWAN antenna

FCC Head (Standalone)	FCC Body (Standalone)	FCC Head (WWAN+BT/WLAN)	FCC Body (WWAN+BT/WLAN)	Full Power
P_{limit}				P_{max}
DSI 2	DSI 1	DSI 4	DSI 3	

Summary of power level – Bluetooth/WLAN antenna

/	Receiver on (Head)	Receiver off (Body)
Stand-alone	Power Level C1	Power Level D1
WLAN 2.4GHz/5GHz + Bluetooth	Power Level C2	Power Level D2
WLAN 2.4GHz + WLAN 5GHz + Bluetooth	Power Level C3	Power Level D3
WWAN + WLAN/Bluetooth, WWAN + WLAN 2.4GHz/5GHz + Bluetooth,	Power Level C4	Power Level D4
WWAN + WLAN 2.4GHz + WLAN 5GHz + Bluetooth	Power Level C5	Power Level D5

**11.1. GSM Measurement result****Table 11.1: The conducted power measurement results for GSM/GPRS/EDGE****Ant.0 - GSM 850 Power Level DSI 2/4/1/3**

GSM 850 Speech	Conducted Power (dBm)			Tune up (dBm)	/			
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)					
	32.95	32.85	32.73	34.00				
GPRS/EDGE 850 (GMSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)			Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
1 Txslot	32.94	32.84	32.72	34.00	-9.03	23.91	23.81	23.69
2 Txslots	30.09	29.96	29.80	31.50	-6.02	24.07	23.94	23.78
3 Txslots	28.12	27.98	27.81	29.50	-4.26	23.86	23.72	23.55
4 Txslots	27.07	26.93	26.76	28.50	-3.01	24.06	23.92	23.75
EDGE 850 (8PSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)			Ch.251 (848.8MHz)	Ch.190 (836.6MHz)	Ch.128 (824.2MHz)
1 Txslot	27.15	27.32	27.36	28.50	-9.03	18.12	18.29	18.33
2 Txslots	24.90	25.03	25.13	26.50	-6.02	18.88	19.01	19.11
3 Txslots	22.07	22.27	22.35	24.00	-4.26	17.81	18.01	18.09
4 Txslots	22.30	22.39	22.46	24.50	-3.01	19.29	19.38	19.45

Ant.0 - GSM 1900 Power Level DSI 2/4

GSM 1900 Speech	Conducted Power (dBm)			Tune up (dBm)	/			
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)					
	29.96	29.97	30.26	31.00				
GPRS/EDGE 1900 (GMSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)			Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)
1 Txslot	29.95	29.96	30.25	31.00	-9.03	20.92	20.93	21.22
2 Txslots	27.11	27.10	27.24	28.50	-6.02	21.09	21.08	21.22
3 Txslots	25.12	25.08	25.35	26.50	-4.26	20.86	20.82	21.09
4 Txslots	24.07	24.03	24.27	25.50	-3.01	21.06	21.02	21.26
EDGE 1900 (8PSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)			Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)
1 Txslot	26.23	26.34	26.45	27.50	-9.03	17.20	17.31	17.42
2 Txslots	24.04	24.16	24.37	25.50	-6.02	18.02	18.14	18.35
3 Txslots	21.76	21.95	22.12	23.50	-4.26	17.50	17.69	17.86
4 Txslots	21.54	21.62	21.82	23.50	-3.01	18.53	18.61	18.81

Ant.0 - GSM 1900 Power Level DSI 1/3

GSM 1900 Speech	Conducted Power (dBm)			Tune up (dBm)	/			
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)					
	29.27	29.34	29.60	30.25				
GPRS/EDGE 1900 (GMSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)			Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)
1 Txslot	29.26	29.33	29.60	30.25	-9.03	20.23	20.30	20.57
2 Txslots	26.36	26.32	26.54	27.75	-6.02	20.34	20.30	20.52
3 Txslots	24.68	24.59	24.85	25.75	-4.26	20.42	20.33	20.59
4 Txslots	23.42	23.37	23.61	24.75	-3.01	20.41	20.36	20.60
EDGE 1900 (8PSK)	Measured timeslot-averaged output Power (dBm)			Tune up (dBm)	Calculation (dB)	Source-based time-Averaged output Power (dBm)		
	Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)			Ch.810 (1909.8MHz)	Ch. 661 (1880MHz)	Ch.512 (1850.2MHz)
1 Txslot	26.23	26.34	26.45	27.50	-9.03	17.20	17.31	17.42
2 Txslots	24.04	24.16	24.37	25.50	-6.02	18.02	18.14	18.35
3 Txslots	21.76	21.95	22.12	23.50	-4.26	17.50	17.69	17.86
4 Txslots	21.54	21.62	21.82	23.50	-3.01	18.53	18.61	18.81

11.2. WCDMA Measurement result

Table 11.2: The conducted power measurement results WCDMA

Ant.0 - WCDMA Band 2 Power Level DSI 2/4

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	23.63	23.50	23.46	24.00
HSUPA	Sub - Test 1	21.14	21.03	20.93	22.00
	Sub - Test 2	21.26	21.13	21.04	22.00
	Sub - Test 3	21.66	21.55	21.48	23.00
	Sub - Test 4	20.66	20.48	20.49	21.50
	Sub - Test 5	22.63	22.54	22.45	23.00
HSDPA	Sub - Test 1	23.06	22.90	22.88	23.50
	Sub - Test 2	23.12	22.99	22.96	23.50
	Sub - Test 3	22.64	22.51	22.48	23.00
	Sub - Test 4	22.55	22.42	22.39	23.00
HSPA+	16QAM	23.11	23.18	23.21	23.50

Ant.0 - WCDMA Band 2 Power Level DSI 1/3

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	21.61	21.52	21.49	22.00
HSUPA	Sub - Test 1	20.61	20.49	20.46	21.50
	Sub - Test 2	20.70	20.61	20.56	21.50
	Sub - Test 3	21.57	21.43	21.42	22.00
	Sub - Test 4	20.65	20.50	20.46	21.50
	Sub - Test 5	21.46	21.39	21.37	22.00
HSDPA	Sub - Test 1	21.06	20.92	20.88	21.50
	Sub - Test 2	21.12	21.00	20.98	21.50
	Sub - Test 3	21.01	20.87	20.79	21.50
	Sub - Test 4	21.07	20.91	20.87	21.50
HSPA+	16QAM	21.16	21.08	21.02	21.50

**Ant.4 - WCDMA Band 2 Power Level DSI 2**

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	18.14	18.06	18.09	19.00
HSUPA	Sub - Test 1	17.91	17.82	17.84	18.50
	Sub - Test 2	18.01	17.91	17.94	18.50
	Sub - Test 3	17.69	17.58	17.62	18.50
	Sub - Test 4	17.89	17.75	17.86	18.50
	Sub - Test 5	17.90	17.84	17.90	18.50
HSDPA	Sub - Test 1	17.73	17.63	17.65	18.50
	Sub - Test 2	17.79	17.68	17.73	18.50
	Sub - Test 3	17.93	17.83	17.86	18.50
	Sub - Test 4	17.83	17.67	17.77	18.50
HSPA+	16QAM	17.98	17.88	17.91	18.50

Ant.4 - WCDMA Band 2 Power Level DSI 4

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	16.13	16.11	16.08	17.00
HSUPA	Sub - Test 1	15.87	15.83	15.88	16.50
	Sub - Test 2	15.97	15.93	15.97	16.50
	Sub - Test 3	15.94	15.80	15.83	16.50
	Sub - Test 4	15.86	15.73	15.79	16.50
	Sub - Test 5	15.95	15.88	15.91	16.50
HSDPA	Sub - Test 1	15.82	15.70	15.78	16.50
	Sub - Test 2	15.87	15.78	15.88	16.50
	Sub - Test 3	15.91	15.83	15.89	16.50
	Sub - Test 4	15.79	15.68	15.74	16.50
HSPA+	16QAM	15.96	15.90	15.85	16.50

Ant.4 - WCDMA Band 2 Power Level DSI 1/3

WCDMA Band 2		Conducted Power (dBm)			Tune up (dBm)
		Ch. 9538 (1907.6MHz)	Ch. 9400 (1880.0MHz)	Ch. 9262 (1852.4MHz)	
RMC	12.2kbps RMC	20.70	20.60	20.59	21.50
HSUPA	Sub - Test 1	20.43	20.30	20.33	21.00
	Sub - Test 2	20.49	20.37	20.43	21.00
	Sub - Test 3	20.49	20.42	20.43	21.00
	Sub - Test 4	20.37	20.31	20.35	21.00
	Sub - Test 5	20.40	20.29	20.32	21.00
HSDPA	Sub - Test 1	20.32	20.16	20.21	21.00
	Sub - Test 2	20.40	20.29	20.38	21.00
	Sub - Test 3	20.38	20.33	20.36	21.00
	Sub - Test 4	20.38	20.29	20.35	21.00
HSPA+	16QAM	20.44	20.35	20.31	21.00

**Ant.0 - WCDMA Band 4 Power Level DSI 2/4**

WCDMA Band 4		Conducted Power (dBm)			Tune up (dBm)
		Ch. 1513 (1752.6MHz)	Ch. 1413 (1732.6MHz)	Ch. 1312 (1712.4MHz)	
RMC	12.2kbps RMC	24.38	24.46	24.42	25.00
HSUPA	Sub - Test 1	21.25	21.31	21.28	22.50
	Sub - Test 2	21.27	21.38	21.32	22.50
	Sub - Test 3	21.95	22.04	22.00	23.50
	Sub - Test 4	20.58	20.72	20.65	22.00
	Sub - Test 5	22.62	22.73	22.69	23.50
HSDPA	Sub - Test 1	23.10	23.22	23.17	24.00
	Sub - Test 2	23.18	23.32	23.25	24.00
	Sub - Test 3	22.61	22.69	22.70	23.50
	Sub - Test 4	22.59	22.69	22.67	23.50
HSPA+	16QAM	24.17	24.27	24.25	24.50

Ant.0 - WCDMA Band 4 Power Level DSI 1/3

WCDMA Band 4		Conducted Power (dBm)			Tune up (dBm)
		Ch. 1513 (1752.6MHz)	Ch. 1413 (1732.6MHz)	Ch. 1312 (1712.4MHz)	
RMC	12.2kbps RMC	22.32	22.40	22.35	23.00
HSUPA	Sub - Test 1	21.09	21.20	21.13	22.50
	Sub - Test 2	21.19	21.29	21.25	22.50
	Sub - Test 3	21.92	22.05	22.01	23.00
	Sub - Test 4	21.34	21.38	21.40	22.00
	Sub - Test 5	22.08	22.20	22.15	23.00
HSDPA	Sub - Test 1	21.88	21.98	21.94	22.50
	Sub - Test 2	21.99	22.11	22.06	22.50
	Sub - Test 3	22.03	22.14	22.08	22.50
	Sub - Test 4	21.92	21.97	21.96	22.50
HSPA+	16QAM	22.08	22.20	22.14	22.50

**Ant.4 - WCDMA Band 4 Power Level DSI 2/4**

WCDMA Band 4		Conducted Power (dBm)			Tune up (dBm)
		Ch. 1513 (1752.6MHz)	Ch. 1413 (1732.6MHz)	Ch. 1312 (1712.4MHz)	
RMC	12.2kbps RMC	19.16	19.21	19.24	19.50
HSUPA	Sub - Test 1	18.78	18.81	18.91	19.50
	Sub - Test 2	18.91	18.93	18.97	19.50
	Sub - Test 3	18.92	18.95	19.02	19.50
	Sub - Test 4	18.74	18.79	18.84	19.50
	Sub - Test 5	18.80	18.88	18.91	19.50
HSDPA	Sub - Test 1	18.94	18.94	18.96	19.50
	Sub - Test 2	18.97	19.08	19.07	19.50
	Sub - Test 3	18.92	18.99	18.97	19.50
	Sub - Test 4	18.81	18.83	18.90	19.50
HSPA+	16QAM	18.99	19.02	19.05	19.50

Ant.4 - WCDMA Band 4 Power Level DSI 1/3

WCDMA Band 4		Conducted Power (dBm)			Tune up (dBm)
		Ch. 1513 (1752.6MHz)	Ch. 1413 (1732.6MHz)	Ch. 1312 (1712.4MHz)	
RMC	12.2kbps RMC	20.60	20.71	20.75	21.00
HSUPA	Sub - Test 1	20.40	20.49	20.49	21.00
	Sub - Test 2	20.52	20.57	20.57	21.00
	Sub - Test 3	20.32	20.36	20.36	21.00
	Sub - Test 4	20.33	20.41	20.41	21.00
	Sub - Test 5	20.49	20.51	20.51	21.00
HSDPA	Sub - Test 1	20.36	20.48	20.48	21.00
	Sub - Test 2	20.48	20.56	20.56	21.00
	Sub - Test 3	20.43	20.45	20.45	21.00
	Sub - Test 4	20.40	20.48	20.48	21.00
HSPA+	16QAM	20.51	20.57	20.62	21.00



Ant.0 - WCDMA Band 5 Power Level DSI 2/4/1/3

WCDMA Band 5		Conducted Power (dBm)			Tune up (dBm)
		Ch. 4233 (846.6MHz)	Ch .4183 (836.6MHz)	Ch. 4132 (826.4MHz)	
RMC	12.2kbps RMC	23.98	24.12	24.20	24.80
HSUPA	Sub - Test 1	21.35	21.39	21.52	22.50
	Sub - Test 2	21.45	21.48	21.55	22.50
	Sub - Test 3	22.14	22.18	22.32	23.50
	Sub - Test 4	20.50	20.64	20.73	22.00
	Sub - Test 5	22.85	22.91	23.01	23.50
HSDPA	Sub - Test 1	23.24	23.33	23.42	24.00
	Sub - Test 2	23.27	23.42	23.47	24.00
	Sub - Test 3	22.83	22.95	22.97	23.50
	Sub - Test 4	22.74	22.78	22.89	23.50
HSPA+	16QAM	23.75	23.87	23.98	24.50

Ant.1 - WCDMA Band 5 Power Level DSI 2/4

WCDMA Band 5		Conducted Power (dBm)			Tune up (dBm)
		Ch. 4233 (846.6MHz)	Ch .4183 (836.6MHz)	Ch. 4132 (826.4MHz)	
RMC	12.2kbps RMC	20.53	20.67	20.61	21.30
HSUPA	Sub - Test 1	20.20	20.33	20.21	21.00
	Sub - Test 2	20.27	20.41	20.32	21.00
	Sub - Test 3	20.33	20.40	20.37	21.00
	Sub - Test 4	20.30	20.37	20.32	21.00
	Sub - Test 5	20.37	20.52	20.45	21.00
HSDPA	Sub - Test 1	20.20	20.30	20.27	21.00
	Sub - Test 2	20.32	20.42	20.33	21.00
	Sub - Test 3	20.42	20.52	20.45	21.00
	Sub - Test 4	20.40	20.50	20.46	21.00
HSPA+	16QAM	20.45	20.58	20.53	21.00

Ant.1 - WCDMA Band 5 Power Level DSI 1/3

WCDMA Band 5		Conducted Power (dBm)			Tune up (dBm)
		Ch. 4233 (846.6MHz)	Ch .4183 (836.6MHz)	Ch. 4132 (826.4MHz)	
RMC	12.2kbps RMC	24.14	24.22	24.11	24.80
HSUPA	Sub - Test 1	20.54	20.67	20.60	22.50
	Sub - Test 2	20.61	20.70	20.67	22.50
	Sub - Test 3	21.73	21.85	21.80	23.50
	Sub - Test 4	20.40	20.43	20.40	22.00
	Sub - Test 5	22.79	22.84	22.82	23.50
HSDPA	Sub - Test 1	23.23	23.39	23.33	24.00
	Sub - Test 2	23.35	23.43	23.42	24.00
	Sub - Test 3	22.77	22.87	22.80	23.50
	Sub - Test 4	22.79	22.90	22.84	23.50
HSPA+	16QAM	23.70	23.82	23.66	24.50



11.3. LTE Measurement result

According to April 2015 TCB workshop, SAR Test exclusion can be applied for testing overlapping LTE Bands as follows:

- a) The maximum out power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

LTE Band 4 (1710-1755MHz) is covered by LTE Band 66 (1710-1780MHz)

LTE Band 5 (824-849MHz) is covered by LTE Band 26 (818-849MHz)

LTE Band 17 (704-716MHz) is covered by LTE Band 12 (699-716MHz)



Ant.0 - LTE Band 7 Power Level DSI 2/4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	23.50	22.67	21.59	24.00	23.00	22.00
		2535.0	23.42	22.66	21.57			
		2502.5	23.43	22.60	21.54			
	1RB-Middle (12)	2567.5	23.44	22.64	21.59			
		2535.0	23.45	22.65	21.55			
		2502.5	23.41	22.63	21.46			
	1RB-Low (0)	2567.5	23.54	22.68	21.65	23.00	22.00	21.00
		2535.0	23.40	22.68	21.53			
		2502.5	23.37	22.57	21.48			
	12RB-High (13)	2567.5	22.45	21.47	20.50			
		2535.0	22.35	21.39	20.41			
		2502.5	22.37	21.37	20.44			
	12RB-Middle (6)	2567.5	22.45	21.47	20.52			
		2535.0	22.42	21.42	20.49			
		2502.5	22.38	21.38	20.41			
	12RB-Low (0)	2567.5	22.44	21.46	20.50			
		2535.0	22.42	21.43	20.45			
		2502.5	22.33	21.37	20.35			
	25RB (0)	2567.5	22.46	21.46	20.48			
		2535.0	22.39	21.36	20.39			
		2502.5	22.40	21.41	20.39			
10MHz	1RB-High (49)	2565.0	23.57	22.69	21.56	24.00	23.00	22.00
		2535.0	23.50	22.70	21.60			
		2505.0	23.46	22.62	21.57			
	1RB-Middle (24)	2565.0	23.55	22.73	21.64			
		2535.0	23.42	22.65	21.51			
		2505.0	23.42	22.59	21.57			
	1RB-Low (0)	2565.0	23.52	22.69	21.60	23.00	22.00	21.00
		2535.0	23.40	22.63	21.51			
		2505.0	23.41	22.56	21.45			
	25RB-High (25)	2565.0	22.51	21.52	20.49			
		2535.0	22.44	21.44	20.44			
		2505.0	22.45	21.43	20.45			
	25RB-Middle (12)	2565.0	22.55	21.53	20.55			
		2535.0	22.42	21.40	20.45			
		2505.0	22.40	21.40	20.41			
	25RB-Low (0)	2565.0	22.52	21.50	20.54			
		2535.0	22.42	21.41	20.39			
		2505.0	22.41	21.36	20.40			
	50RB (0)	2565.0	22.50	21.46	20.47			
		2535.0	22.43	21.40	20.45			
		2505.0	22.41	21.40	20.41			
15MHz	1RB-High (74)	2562.5	23.60	22.73	21.55	24.00	23.00	22.00
		2535.0	23.52	22.75	21.62			
		2507.5	23.51	22.72	21.68			
	1RB-Middle (37)	2562.5	23.54	22.75	21.67			
		2535.0	23.45	22.63	21.50			
		2507.5	23.44	22.63	21.61			
	1RB-Low (0)	2562.5	23.44	22.69	21.66	23.00	22.00	21.00
		2535.0	23.39	22.57	21.47			
		2507.5	23.38	22.53	21.57			
	36RB-High (38)	2562.5	22.51	21.50	20.58			
		2535.0	22.38	21.39	20.41			
		2507.5	22.42	21.42	20.49			
	36RB-Middle (19)	2562.5	22.46	21.47	20.52			
		2535.0	22.38	21.40	20.43			
		2507.5	22.40	21.36	20.41			
	36RB-Low (0)	2562.5	22.44	21.47	20.50			
		2535.0	22.37	21.40	20.44			
		2507.5	22.36	21.36	20.41			
	75RB (0)	2562.5	22.47	21.45	20.54			
		2535.0	22.37	21.36	20.37			
		2507.5	22.41	21.37	20.39			
20MHz	1RB-High (99)	2560.0	23.64	22.76	21.73	24.00	23.00	22.00
		2535.0	23.50	22.66	21.67			
		2510.0	23.46	22.65	21.57			
	1RB-Middle (50)	2560.0	23.48	22.73	21.65			
		2535.0	23.41	22.63	21.61			
		2510.0	23.42	22.60	21.55			
	1RB-Low (0)	2560.0	23.34	22.55	21.49	23.00	22.00	21.00
		2535.0	23.36	22.54	21.49			
		2510.0	23.36	22.54	21.52			
	50RB-High (50)	2560.0	22.55	21.54	20.63			
		2535.0	22.39	21.38	20.41			
		2510.0	22.48	21.43	20.49			
	50RB-Middle (25)	2560.0	22.53	21.52	20.54			
		2535.0	22.41	21.41	20.46			
		2510.0	22.40	21.43	20.42			
	50RB-Low (0)	2560.0	22.43	21.46	20.47			
		2535.0	22.41	21.38	20.42			
		2510.0	22.39	21.38	20.44			
	100RB (0)	2560.0	22.49	21.46	20.53			
		2535.0	22.36	21.37	20.41			
		2510.0	22.40	21.36	20.41			



Ant.0 - LTE Band 7 Power Level DSI 1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	22.52	22.70	21.63	23.00	23.00	22.00
		2535.0	22.48	22.68	21.59			
		2502.5	22.46	22.70	21.56			
	1RB-Middle (12)	2567.5	22.52	22.64	21.63			
		2535.0	22.48	22.67	21.57			
		2502.5	22.45	22.63	21.51			
	1RB-Low (0)	2567.5	22.51	22.72	21.64			
		2535.0	22.46	22.63	21.62			
		2502.5	22.44	22.58	21.56			
	12RB-High (13)	2567.5	22.49	21.48	20.55	23.00	22.00	21.00
		2535.0	22.40	21.42	20.46			
		2502.5	22.43	21.40	20.45			
	12RB-Middle (6)	2567.5	22.48	21.45	20.56			
		2535.0	22.45	21.49	20.47			
		2502.5	22.41	21.40	20.48			
	12RB-Low (0)	2567.5	22.46	21.47	20.54			
		2535.0	22.44	21.47	20.47			
		2502.5	22.35	21.38	20.44			
	25RB (0)	2567.5	22.48	21.48	20.52			
		2535.0	22.43	21.42	20.42			
		2502.5	22.46	21.43	20.39			
10MHz	1RB-High (49)	2565.0	22.61	22.70	21.66	23.00	23.00	22.00
		2535.0	22.54	22.69	21.66			
		2505.0	22.49	22.74	21.56			
	1RB-Middle (24)	2565.0	22.59	22.79	21.69			
		2535.0	22.47	22.69	21.58			
		2505.0	22.44	22.63	21.56			
	1RB-Low (0)	2565.0	22.54	22.76	21.60			
		2535.0	22.46	22.66	21.57			
		2505.0	22.40	22.65	21.52			
	25RB-High (25)	2565.0	22.58	21.55	20.53	23.00	22.00	21.00
		2535.0	22.51	21.47	20.47			
		2505.0	22.49	21.48	20.48			
	25RB-Middle (12)	2565.0	22.61	21.62	20.60			
		2535.0	22.50	21.50	20.50			
		2505.0	22.49	21.46	20.42			
	25RB-Low (0)	2565.0	22.58	21.57	20.59			
		2535.0	22.49	21.45	20.47			
		2505.0	22.44	21.43	20.42			
	50RB (0)	2565.0	22.52	21.52	20.51			
		2535.0	22.45	21.46	20.50			
		2505.0	22.44	21.45	20.43			
15MHz	1RB-High (74)	2562.5	22.61	22.77	21.66	23.00	23.00	22.00
		2535.0	22.54	22.73	21.69			
		2507.5	22.56	22.75	21.73			
	1RB-Middle (37)	2562.5	22.54	22.79	21.67			
		2535.0	22.46	22.68	21.59			
		2507.5	22.46	22.69	21.61			
	1RB-Low (0)	2562.5	22.51	22.69	21.62			
		2535.0	22.41	22.67	21.49			
		2507.5	22.39	22.61	21.51			
	36RB-High (38)	2562.5	22.55	21.59	20.59	23.00	22.00	21.00
		2535.0	22.43	21.40	20.47			
		2507.5	22.49	21.47	20.49			
	36RB-Middle (19)	2562.5	22.52	21.54	20.50			
		2535.0	22.45	21.46	20.45			
		2507.5	22.43	21.40	20.45			
	36RB-Low (0)	2562.5	22.49	21.46	20.53			
		2535.0	22.41	21.43	20.47			
		2507.5	22.39	21.40	20.44			
	75RB (0)	2562.5	22.53	21.51	20.53			
		2535.0	22.40	21.38	20.39			
		2507.5	22.44	21.42	20.44			
20MHz	1RB-High (99)	2560.0	22.62	22.80	21.67	23.00	23.00	22.00
		2535.0	22.54	22.72	21.49			
		2510.0	22.52	22.71	21.62			
	1RB-Middle (50)	2560.0	22.54	22.76	21.65			
		2535.0	22.44	22.67	21.46			
		2510.0	22.43	22.62	21.59			
	1RB-Low (0)	2560.0	22.38	22.63	21.46			
		2535.0	22.39	22.63	21.56			
		2510.0	22.38	22.61	21.47			
	50RB-High (50)	2560.0	22.62	21.58	20.53	23.00	22.00	21.00
		2535.0	22.44	21.46	20.39			
		2510.0	22.50	21.54	20.45			
	50RB-Middle (25)	2560.0	22.58	21.59	20.52			
		2535.0	22.49	21.45	20.45			
		2510.0	22.46	21.46	20.40			
	50RB-Low (0)	2560.0	22.48	21.48	20.49			
		2535.0	22.43	21.42	20.43			
		2510.0	22.44	21.45	20.41			
	100RB (0)	2560.0	22.55	21.50	20.49			
		2535.0	22.41	21.41	20.38			
		2510.0	22.43	21.41	20.38			



Ant.1 - LTE Band 7 Power Level DSI 2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	21.35	21.50	20.40	21.70	21.70	20.70
		2535.0	21.23	21.44	20.33			
		2502.5	21.09	21.34	20.20			
	1RB-Middle (12)	2567.5	21.31	21.50	20.43			
		2535.0	21.24	21.38	20.33			
		2502.5	21.08	21.32	20.16			
	1RB-Low (0)	2567.5	21.28	21.58	20.41			
		2535.0	21.19	21.36	20.30			
		2502.5	21.05	21.30	20.15			
	12RB-High (13)	2567.5	21.25	20.27	19.30	21.70	20.70	19.70
		2535.0	21.17	20.20	19.20			
		2502.5	21.06	20.05	19.11			
	12RB-Middle (6)	2567.5	21.27	20.28	19.34			
		2535.0	21.21	20.20	19.21			
		2502.5	21.05	20.08	19.10			
	12RB-Low (0)	2567.5	21.29	20.26	19.31			
		2535.0	21.16	20.18	19.20			
		2502.5	21.00	20.02	19.07			
	25RB (0)	2567.5	21.31	20.27	19.30			
		2535.0	21.18	20.16	19.15			
		2502.5	21.09	20.07	19.08			
10MHz	1RB-High (49)	2565.0	21.34	21.54	20.41	21.70	21.70	20.70
		2535.0	21.31	21.44	20.39			
		2505.0	21.14	21.41	20.21			
	1RB-Middle (24)	2565.0	21.42	21.59	20.49			
		2535.0	21.19	21.38	20.31			
		2505.0	21.09	21.28	20.21			
	1RB-Low (0)	2565.0	21.32	21.48	20.39			
		2535.0	21.20	21.39	20.26			
		2505.0	21.08	21.20	20.07			
	25RB-High (25)	2565.0	21.35	20.31	19.33	21.70	20.70	19.70
		2535.0	21.26	20.27	19.27			
		2505.0	21.14	20.11	19.08			
	25RB-Middle (12)	2565.0	21.37	20.36	19.36			
		2535.0	21.24	20.18	19.17			
		2505.0	21.11	20.08	19.09			
	25RB-Low (0)	2565.0	21.39	20.33	19.37			
		2535.0	21.19	20.19	19.14			
		2505.0	21.10	20.05	19.08			
	50RB (0)	2565.0	21.31	20.30	19.28			
		2535.0	21.23	20.21	19.18			
		2505.0	21.08	20.08	19.08			
15MHz	1RB-High (74)	2562.5	21.45	21.60	20.42	21.70	21.70	20.70
		2535.0	21.35	21.52	20.36			
		2507.5	21.24	21.40	20.36			
	1RB-Middle (37)	2562.5	21.38	21.51	20.45			
		2535.0	21.21	21.42	20.27			
		2507.5	21.12	21.33	20.20			
	1RB-Low (0)	2562.5	21.31	21.50	20.39			
		2535.0	21.18	21.38	20.25			
		2507.5	21.07	21.24	20.13			
	36RB-High (38)	2562.5	21.35	20.31	19.37	21.70	20.70	19.70
		2535.0	21.21	20.20	19.26			
		2507.5	21.14	20.13	19.15			
	36RB-Middle (19)	2562.5	21.35	20.34	19.34			
		2535.0	21.18	20.21	19.22			
		2507.5	21.10	20.10	19.13			
	36RB-Low (0)	2562.5	21.31	20.33	19.32			
		2535.0	21.15	20.15	19.15			
		2507.5	21.06	20.08	19.11			
	75RB (0)	2562.5	21.30	20.30	19.27			
		2535.0	21.14	20.13	19.17			
		2507.5	21.11	20.09	19.11			
20MHz	1RB-High (99)	2560.0	21.46	21.60	20.49	21.70	21.70	20.70
		2535.0	21.28	21.45	20.47			
		2510.0	21.20	21.42	20.34			
	1RB-Middle (50)	2560.0	21.33	21.54	20.38			
		2535.0	21.22	21.38	20.39			
		2510.0	21.12	21.35	20.28			
	1RB-Low (0)	2560.0	21.14	21.33	20.28			
		2535.0	21.14	21.36	20.17			
		2510.0	21.07	21.19	20.16			
	50RB-High (50)	2560.0	21.34	20.32	19.33	21.70	20.70	19.70
		2535.0	21.29	20.24	19.28			
		2510.0	21.16	20.16	19.14			
	50RB-Middle (25)	2560.0	21.33	20.35	19.36			
		2535.0	21.25	20.19	19.28			
		2510.0	21.14	20.15	19.20			
	50RB-Low (0)	2560.0	21.32	20.30	19.34			
		2535.0	21.16	20.15	19.17			
		2510.0	21.13	20.13	19.13			
	100RB (0)	2560.0	21.30	20.30	19.31			
		2535.0	21.19	20.18	19.17			
		2510.0	21.15	20.10	19.12			



Ant.1 - LTE Band 7 Power Level DSI 4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	19.61	19.71	19.67	20.20	20.20	20.20
		2535.0	19.53	19.70	19.62			
		2502.5	19.36	19.50	19.45			
	1RB-Middle (12)	2567.5	19.67	19.78	19.67			
		2535.0	19.56	19.71	19.58			
		2502.5	19.37	19.50	19.44			
	1RB-Low (0)	2567.5	19.68	19.76	19.68	20.20	20.20	19.70
		2535.0	19.48	19.72	19.60			
		2502.5	19.35	19.47	19.43			
	12RB-High (13)	2567.5	19.59	19.62	19.03			
		2535.0	19.43	19.50	18.95			
		2502.5	19.33	19.35	18.84			
	12RB-Middle (6)	2567.5	19.59	19.62	19.09			
		2535.0	19.48	19.52	18.98			
		2502.5	19.34	19.37	18.84			
	12RB-Low (0)	2567.5	19.58	19.62	19.06			
		2535.0	19.50	19.53	18.99			
		2502.5	19.26	19.34	18.83			
	25RB (0)	2567.5	19.65	19.64	19.04			
		2535.0	19.49	19.50	18.92			
		2502.5	19.37	19.37	18.82			
10MHz	1RB-High (49)	2565.0	19.70	19.76	19.65	20.20	20.20	20.20
		2535.0	19.61	19.71	19.66			
		2505.0	19.44	19.57	19.49			
	1RB-Middle (24)	2565.0	19.69	19.79	19.73			
		2535.0	19.53	19.63	19.54			
		2505.0	19.36	19.54	19.44			
	1RB-Low (0)	2565.0	19.65	19.78	19.61	20.20	20.20	19.70
		2535.0	19.49	19.58	19.54			
		2505.0	19.33	19.42	19.41			
	25RB-High (25)	2565.0	19.68	19.65	19.05			
		2535.0	19.57	19.56	19.03			
		2505.0	19.42	19.41	18.88			
	25RB-Middle (12)	2565.0	19.68	19.69	19.12			
		2535.0	19.51	19.54	18.97			
		2505.0	19.37	19.40	18.82			
	25RB-Low (0)	2565.0	19.69	19.70	19.12			
		2535.0	19.47	19.47	18.92			
		2505.0	19.33	19.38	18.84			
	50RB (0)	2565.0	19.62	19.64	19.03			
		2535.0	19.51	19.50	18.98			
		2505.0	19.38	19.42	18.84			
15MHz	1RB-High (74)	2562.5	19.73	19.85	19.78	20.20	20.20	20.20
		2535.0	19.66	19.76	19.68			
		2507.5	19.51	19.66	19.58			
	1RB-Middle (37)	2562.5	19.69	19.85	19.80			
		2535.0	19.54	19.66	19.52			
		2507.5	19.42	19.56	19.48			
	1RB-Low (0)	2562.5	19.62	19.75	19.61	20.20	20.20	19.70
		2535.0	19.48	19.56	19.52			
		2507.5	19.33	19.46	19.39			
	36RB-High (38)	2562.5	19.66	19.66	19.11			
		2535.0	19.49	19.50	19.00			
		2507.5	19.40	19.41	18.90			
	36RB-Middle (19)	2562.5	19.61	19.69	19.03			
		2535.0	19.52	19.48	18.94			
		2507.5	19.38	19.40	18.87			
	36RB-Low (0)	2562.5	19.60	19.60	19.08			
		2535.0	19.45	19.43	18.89			
		2507.5	19.31	19.40	18.83			
	75RB (0)	2562.5	19.62	19.65	19.07			
		2535.0	19.47	19.50	18.90			
		2507.5	19.36	19.38	18.84			
20MHz	1RB-High (99)	2560.0	19.79	19.88	19.75	20.20	20.20	20.20
		2535.0	19.63	19.67	19.56			
		2510.0	19.52	19.70	19.57			
	1RB-Middle (50)	2560.0	19.65	19.74	19.63			
		2535.0	19.52	19.59	19.47			
		2510.0	19.40	19.51	19.41			
	1RB-Low (0)	2560.0	19.49	19.50	19.45	20.20	20.20	19.70
		2535.0	19.44	19.57	19.50			
		2510.0	19.34	19.48	19.31			
	50RB-High (50)	2560.0	19.69	19.69	19.10			
		2535.0	19.62	19.61	18.97			
		2510.0	19.44	19.46	18.86			
	50RB-Middle (25)	2560.0	19.63	19.73	19.06			
		2535.0	19.56	19.53	18.95			
		2510.0	19.45	19.45	18.89			
	50RB-Low (0)	2560.0	19.66	19.64	19.06			
		2535.0	19.49	19.48	18.88			
		2510.0	19.43	19.47	18.88			
	100RB (0)	2560.0	19.64	19.65	19.06			
		2535.0	19.51	19.48	18.92			
		2510.0	19.39	19.40	18.85			



Ant.1 - LTE Band 7 Power Level DSI 1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	20.12	20.23	20.26	20.70	20.70	20.70
		2535.0	20.03	20.26	20.13			
		2502.5	19.92	20.12	20.04			
		2567.5	20.11	20.28	20.22			
	1RB-Middle (12)	2535.0	20.04	20.26	20.15			
		2502.5	19.91	20.05	20.00			
		2567.5	20.13	20.30	20.25			
		2535.0	20.02	20.14	20.11			
	1RB-Low (0)	2502.5	19.86	20.03	19.99			
		2567.5	20.03	20.09	19.14			
	12RB-High (13)	2535.0	19.96	19.97	19.03	20.70	20.70	19.70
		2502.5	19.84	19.85	18.91			
		2567.5	20.06	20.08	19.17			
		2535.0	19.97	19.99	19.09			
	12RB-Middle (6)	2502.5	19.84	19.87	18.96			
		2567.5	20.03	20.09	19.12			
		2535.0	19.98	19.98	19.05			
		2502.5	19.78	19.83	18.90			
	12RB-Low (0)	2567.5	20.10	20.10	19.12			
		2535.0	19.99	19.95	19.00			
		2502.5	19.91	19.87	18.90			
	25RB (0)	2567.5	20.10	20.10	19.12			
		2535.0	19.99	19.95	19.00			
		2502.5	19.91	19.87	18.90			
10MHz	1RB-High (49)	2565.0	20.15	20.28	20.22	20.70	20.70	20.70
		2535.0	20.06	20.25	20.17			
		2505.0	20.00	20.16	20.09			
		2565.0	20.15	20.33	20.30			
	1RB-Middle (24)	2535.0	20.02	20.19	20.11			
		2505.0	19.88	20.07	20.03			
		2565.0	20.09	20.25	20.23			
		2535.0	19.98	20.16	20.09			
	1RB-Low (0)	2505.0	19.86	20.04	19.94			
		2565.0	20.12	20.11	19.14	20.70	20.70	19.70
	25RB-High (25)	2535.0	20.07	20.06	19.11			
		2505.0	19.94	19.90	18.94			
		2565.0	20.15	20.15	19.16			
		2535.0	20.04	20.02	19.02			
	25RB-Middle (12)	2505.0	19.89	19.91	18.95			
		2565.0	20.16	20.17	19.20			
		2535.0	19.98	19.96	19.03			
		2505.0	19.89	19.87	18.91			
	25RB-Low (0)	2565.0	20.08	20.09	19.09			
		2535.0	19.99	19.99	19.05			
		2505.0	19.86	19.90	18.91			
15MHz	1RB-High (74)	2562.5	20.23	20.44	20.28	20.70	20.70	20.70
		2535.0	20.10	20.31	20.20			
		2507.5	20.07	20.22	20.22			
		2562.5	20.13	20.32	20.34			
	1RB-Middle (37)	2535.0	20.04	20.24	20.17			
		2507.5	19.91	20.13	20.02			
		2562.5	20.10	20.28	20.23			
		2535.0	19.96	20.15	20.04			
	1RB-Low (0)	2507.5	19.85	19.99	19.99	20.70	20.70	19.70
		2562.5	20.13	20.15	19.21			
	36RB-High (38)	2535.0	20.00	20.04	19.09			
		2507.5	19.91	19.95	19.02			
		2562.5	20.12	20.14	19.14			
		2535.0	19.97	20.00	19.03			
	36RB-Middle (19)	2507.5	19.90	19.94	18.98			
		2562.5	20.09	20.13	19.13			
	36RB-Low (0)	2535.0	19.95	19.97	19.00			
		2507.5	19.88	19.89	18.94			
		2562.5	20.12	20.08	19.14			
		2535.0	19.96	19.96	19.01			
	75RB (0)	2507.5	19.92	19.91	18.92			
20MHz	1RB-High (99)	2560.0	20.21	20.36	20.32	20.70	20.70	20.70
		2535.0	20.13	20.31	20.18			
		2510.0	20.06	20.20	20.09			
		2560.0	20.19	20.38	20.30			
	1RB-Middle (50)	2535.0	20.03	20.19	20.19			
		2510.0	19.96	20.20	19.99			
		2560.0	19.93	20.17	20.11			
		2535.0	19.93	20.11	19.97			
	1RB-Low (0)	2510.0	19.87	19.99	20.02	20.70	20.70	19.70
		2560.0	20.16	20.12	19.16			
	50RB-High (50)	2535.0	20.07	20.09	19.10			
		2510.0	19.94	19.94	18.95			
		2560.0	20.11	20.22	19.17			
		2535.0	20.05	20.01	19.07			
	50RB-Middle (25)	2510.0	19.94	19.98	18.97			
		2560.0	20.15	20.14	19.14			
		2535.0	19.98	19.96	19.02			
		2510.0	19.92	19.96	18.96			
	50RB-Low (0)	2560.0	20.10	20.12	19.17			
		2535.0	19.99	19.98	19.05			
	100RB (0)	2510.0	19.90	19.90	18.92			



Ant.4 - LTE Band 7 Power Level DSI 2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	19.05	19.18	19.24	19.50	19.50	19.50
		2535.0	18.99	19.10	19.15			
		2502.5	18.84	18.99	19.06			
	1RB-Middle (12)	2567.5	19.06	19.16	19.17			
		2535.0	18.97	19.14	19.10			
		2502.5	18.84	18.97	18.97			
	1RB-Low (0)	2567.5	19.02	19.21	19.18			
		2535.0	18.95	19.02	19.11			
		2502.5	18.80	18.91	18.93			
	12RB-High (13)	2567.5	19.01	19.07	19.09	19.50	19.50	19.50
		2535.0	18.91	18.94	19.00			
		2502.5	18.78	18.82	18.87			
	12RB-Middle (6)	2567.5	19.03	19.04	19.10			
		2535.0	18.93	18.97	19.05			
		2502.5	18.81	18.82	18.89			
	12RB-Low (0)	2567.5	18.96	19.02	19.08			
		2535.0	18.83	18.95	19.03			
		2502.5	18.76	18.77	18.88			
	25RB (0)	2567.5	19.06	19.03	19.08			
		2535.0	18.95	18.96	18.95			
		2502.5	18.82	18.84	18.87			
10MHz	1RB-High (49)	2565.0	19.10	19.20	19.24	19.50	19.50	19.50
		2535.0	19.04	19.13	19.16			
		2505.0	18.95	19.03	19.01			
	1RB-Middle (24)	2565.0	19.08	19.16	19.22			
		2535.0	18.96	19.10	19.08			
		2505.0	18.84	18.98	18.94			
	1RB-Low (0)	2565.0	19.06	19.14	19.17			
		2535.0	18.91	19.07	18.99			
		2505.0	18.80	18.91	18.89			
	25RB-High (25)	2565.0	19.07	19.05	19.09	19.50	19.50	19.50
		2535.0	19.00	19.00	19.04			
		2505.0	18.87	18.86	18.91			
	25RB-Middle (12)	2565.0	19.10	19.11	19.17			
		2535.0	18.94	18.98	19.00			
		2505.0	18.85	18.86	18.89			
	25RB-Low (0)	2565.0	19.06	19.09	19.14			
		2535.0	18.92	18.96	18.98			
		2505.0	18.86	18.84	18.89			
	50RB (0)	2565.0	19.01	19.05	19.07			
		2535.0	18.96	18.97	18.99			
		2505.0	18.84	18.82	18.90			
15MHz	1RB-High (74)	2562.5	19.15	19.23	19.18	19.50	19.50	19.50
		2535.0	19.10	19.20	19.26			
		2507.5	18.99	19.13	19.08			
	1RB-Middle (37)	2562.5	19.13	19.27	19.27			
		2535.0	18.98	19.12	19.08			
		2507.5	18.89	19.00	19.04			
	1RB-Low (0)	2562.5	19.06	19.12	19.19			
		2535.0	18.90	19.03	18.99			
		2507.5	18.80	18.99	18.89			
	36RB-High (38)	2562.5	19.05	19.10	19.17	19.50	19.50	19.50
		2535.0	18.96	18.98	19.02			
		2507.5	18.92	18.87	18.93			
	36RB-Middle (19)	2562.5	19.05	19.08	19.13			
		2535.0	18.94	18.95	19.01			
		2507.5	18.83	18.87	18.92			
	36RB-Low (0)	2562.5	19.03	19.05	19.12			
		2535.0	18.89	18.95	18.94			
		2507.5	18.84	18.83	18.92			
	75RB (0)	2562.5	19.07	19.07	19.14			
		2535.0	18.91	18.90	18.96			
		2507.5	18.86	18.87	18.89			
20MHz	1RB-High (99)	2560.0	19.21	19.31	19.37	19.50	19.50	19.50
		2535.0	19.07	19.12	19.09			
		2510.0	18.97	19.09	19.12			
	1RB-Middle (50)	2560.0	19.06	19.24	19.24			
		2535.0	18.98	19.06	19.10			
		2510.0	18.89	18.99	19.09			
	1RB-Low (0)	2560.0	18.97	18.95	19.05			
		2535.0	18.91	19.06	18.96			
		2510.0	18.79	18.92	18.89			
	50RB-High (50)	2560.0	19.09	19.12	19.15	19.50	19.50	19.50
		2535.0	19.01	19.05	19.07			
		2510.0	18.88	18.91	18.95			
	50RB-Middle (25)	2560.0	19.14	19.15	19.14			
		2535.0	19.02	19.00	19.04			
		2510.0	18.91	18.92	18.95			
	50RB-Low (0)	2560.0	19.02	19.10	19.13			
		2535.0	18.92	18.92	18.96			
		2510.0	18.89	18.89	18.92			
	100RB (0)	2560.0	19.06	19.08	19.12			
		2535.0	18.94	18.96	18.97			
		2510.0	18.84	18.85	18.91			



Ant.4 - LTE Band 7 Power Level DSI 4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	17.41	17.50	17.43	18.00	18.00	18.00
		2535.0	17.39	17.51	17.39			
		2502.5	17.24	17.34	17.21			
	1RB-Middle (12)	2567.5	17.44	17.57	17.40			
		2535.0	17.32	17.46	17.31			
		2502.5	17.16	17.30	17.16			
	1RB-Low (0)	2567.5	17.44	17.59	17.43			
		2535.0	17.32	17.45	17.34			
		2502.5	17.13	17.27	17.21			
	12RB-High (13)	2567.5	17.39	17.42	17.41	18.00	18.00	18.00
		2535.0	17.27	17.31	17.31			
		2502.5	17.12	17.17	17.17			
	12RB-Middle (6)	2567.5	17.42	17.43	17.42			
		2535.0	17.32	17.35	17.33			
		2502.5	17.17	17.18	17.20			
	12RB-Low (0)	2567.5	17.38	17.44	17.41			
		2535.0	17.33	17.32	17.28			
		2502.5	17.10	17.14	17.14			
	25RB (0)	2567.5	17.42	17.43	17.42			
		2535.0	17.30	17.31	17.24			
		2502.5	17.15	17.19	17.16			
10MHz	1RB-High (49)	2565.0	17.50	17.60	17.43	18.00	18.00	18.00
		2535.0	17.42	17.52	17.40			
		2505.0	17.22	17.39	17.28			
	1RB-Middle (24)	2565.0	17.48	17.62	17.48			
		2535.0	17.32	17.48	17.41			
		2505.0	17.18	17.32	17.16			
	1RB-Low (0)	2565.0	17.42	17.59	17.45			
		2535.0	17.28	17.47	17.27			
		2505.0	17.11	17.27	17.20			
	25RB-High (25)	2565.0	17.45	17.45	17.43	18.00	18.00	18.00
		2535.0	17.39	17.39	17.34			
		2505.0	17.19	17.22	17.19			
	25RB-Middle (12)	2565.0	17.51	17.52	17.46			
		2535.0	17.33	17.34	17.29			
		2505.0	17.20	17.21	17.19			
	25RB-Low (0)	2565.0	17.48	17.51	17.47			
		2535.0	17.31	17.31	17.27			
		2505.0	17.21	17.19	17.14			
	50RB (0)	2565.0	17.44	17.40	17.36			
		2535.0	17.31	17.31	17.27			
		2505.0	17.20	17.21	17.19			
15MHz	1RB-High (74)	2562.5	17.54	17.69	17.50	18.00	18.00	18.00
		2535.0	17.44	17.61	17.48			
		2507.5	17.35	17.45	17.32			
	1RB-Middle (37)	2562.5	17.48	17.61	17.45			
		2535.0	17.33	17.48	17.39			
		2507.5	17.24	17.34	17.30			
	1RB-Low (0)	2562.5	17.41	17.56	17.43			
		2535.0	17.27	17.39	17.33			
		2507.5	17.11	17.21	17.13			
	36RB-High (38)	2562.5	17.44	17.45	17.47	18.00	18.00	18.00
		2535.0	17.31	17.30	17.33			
		2507.5	17.23	17.26	17.24			
	36RB-Middle (19)	2562.5	17.45	17.42	17.43			
		2535.0	17.29	17.33	17.32			
		2507.5	17.19	17.22	17.24			
	36RB-Low (0)	2562.5	17.41	17.40	17.41			
		2535.0	17.25	17.27	17.26			
		2507.5	17.17	17.16	17.17			
	75RB (0)	2562.5	17.44	17.40	17.40			
		2535.0	17.27	17.31	17.27			
		2507.5	17.17	17.20	17.16			
20MHz	1RB-High (99)	2560.0	17.57	17.68	17.57	18.00	18.00	18.00
		2535.0	17.42	17.53	17.46			
		2510.0	17.33	17.50	17.36			
	1RB-Middle (50)	2560.0	17.46	17.61	17.51			
		2535.0	17.34	17.50	17.35			
		2510.0	17.23	17.34	17.28			
	1RB-Low (0)	2560.0	17.29	17.45	17.37			
		2535.0	17.24	17.36	17.27			
		2510.0	17.16	17.29	17.23			
	50RB-High (50)	2560.0	17.45	17.50	17.46	18.00	18.00	18.00
		2535.0	17.39	17.39	17.35			
		2510.0	17.28	17.27	17.23			
	50RB-Middle (25)	2560.0	17.48	17.50	17.46			
		2535.0	17.36	17.39	17.33			
		2510.0	17.26	17.28	17.24			
	50RB-Low (0)	2560.0	17.45	17.46	17.43			
		2535.0	17.30	17.32	17.25			
		2510.0	17.23	17.26	17.21			
	100RB (0)	2560.0	17.44	17.42	17.44			
		2535.0	17.30	17.26	17.27			
		2510.0	17.20	17.18	17.17			



Ant.4 - LTE Band 7 Power Level DSI 1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	21.34	21.48	21.17	21.75	21.75	21.50
		2535.0	21.21	21.42	21.16			
		2502.5	21.09	21.31	20.98			
	1RB-Middle (12)	2567.5	21.30	21.45	21.16			
		2535.0	21.21	21.38	21.09			
		2502.5	21.11	21.24	20.96			
	1RB-Low (0)	2567.5	21.30	21.51	21.22			
		2535.0	21.18	21.39	21.09			
		2502.5	21.04	21.20	20.90			
	12RB-High (13)	2567.5	21.29	21.05	20.10	21.75	21.50	20.50
		2535.0	21.18	20.94	19.95			
		2502.5	21.03	20.82	19.85			
	12RB-Middle (6)	2567.5	21.28	21.07	20.12			
		2535.0	21.19	20.96	20.01			
		2502.5	21.06	20.83	19.89			
	12RB-Low (0)	2567.5	21.21	21.05	20.10			
		2535.0	21.17	20.95	19.97			
		2502.5	20.87	20.75	19.81			
	25RB (0)	2567.5	21.28	21.03	20.11			
		2535.0	21.15	20.93	19.95			
		2502.5	21.08	20.80	19.84			
10MHz	1RB-High (49)	2565.0	21.40	21.48	21.21	21.75	21.75	21.50
		2535.0	21.28	21.47	21.12			
		2505.0	21.20	21.34	21.05			
	1RB-Middle (24)	2565.0	21.34	21.55	21.22			
		2535.0	21.22	21.32	21.08			
		2505.0	21.09	21.21	20.97			
	1RB-Low (0)	2565.0	21.29	21.53	21.17			
		2535.0	21.17	21.34	21.04			
		2505.0	21.10	21.21	20.87			
	25RB-High (25)	2565.0	21.32	21.06	20.09	21.75	21.50	20.50
		2535.0	21.24	21.01	20.00			
		2505.0	21.11	20.87	19.88			
	25RB-Middle (12)	2565.0	21.34	21.12	20.14			
		2535.0	21.20	20.97	19.99			
		2505.0	21.10	20.87	19.84			
	25RB-Low (0)	2565.0	21.34	21.08	20.13			
		2535.0	21.19	20.93	19.95			
		2505.0	21.09	20.85	19.84			
	50RB (0)	2565.0	21.28	21.06	20.11			
		2535.0	21.21	20.99	20.01			
		2505.0	21.08	20.85	19.84			
15MHz	1RB-High (74)	2562.5	21.43	21.57	21.28	21.75	21.75	21.50
		2535.0	21.32	21.50	21.26			
		2507.5	21.25	21.46	21.01			
	1RB-Middle (37)	2562.5	21.36	21.53	21.24			
		2535.0	21.19	21.41	21.10			
		2507.5	21.15	21.33	20.98			
	1RB-Low (0)	2562.5	21.30	21.45	21.20			
		2535.0	21.15	21.34	21.01			
		2507.5	21.05	21.31	20.90			
	36RB-High (38)	2562.5	21.32	21.10	20.19	21.75	21.50	20.50
		2535.0	21.19	21.00	20.03			
		2507.5	21.10	20.90	19.93			
	36RB-Middle (19)	2562.5	21.32	21.07	20.16			
		2535.0	21.17	20.94	19.98			
		2507.5	21.09	20.88	19.88			
	36RB-Low (0)	2562.5	21.26	21.06	20.12			
		2535.0	21.13	20.88	19.93			
		2507.5	21.06	20.84	19.89			
	75RB (0)	2562.5	21.32	21.08	20.12			
		2535.0	21.15	20.89	19.97			
		2507.5	21.08	20.88	19.86			
20MHz	1RB-High (99)	2560.0	21.46	21.57	21.38	21.75	21.75	21.50
		2535.0	21.31	21.41	21.19			
		2510.0	21.22	21.47	21.10			
	1RB-Middle (50)	2560.0	21.33	21.53	21.18			
		2535.0	21.21	21.39	21.11			
		2510.0	21.12	21.32	20.96			
	1RB-Low (0)	2560.0	21.13	21.32	21.05			
		2535.0	21.12	21.33	20.96			
		2510.0	21.06	21.25	20.97			
	50RB-High (50)	2560.0	21.36	21.09	20.16	21.75	21.50	20.50
		2535.0	21.23	21.01	20.04			
		2510.0	21.13	20.91	19.96			
	50RB-Middle (25)	2560.0	21.37	21.13	20.17			
		2535.0	21.20	20.99	19.96			
		2510.0	21.14	20.90	19.96			
	50RB-Low (0)	2560.0	21.34	21.10	20.14			
		2535.0	21.16	20.88	19.94			
		2510.0	21.14	20.87	19.92			
	100RB (0)	2560.0	21.30	21.08	20.13			
		2535.0	21.16	20.93	19.98			
		2510.0	21.07	20.81	19.89			



Ant.5 - LTE Band 7 Power Level DSI 2/4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	20.60	20.71	20.68	21.00	21.00	21.00
		2535.0	20.49	20.65	20.58			
		2502.5	20.36	20.47	20.48			
	1RB-Middle (12)	2567.5	20.61	20.74	20.69			
		2535.0	20.47	20.63	20.62			
		2502.5	20.35	20.45	20.44			
	1RB-Low (0)	2567.5	20.62	20.77	20.73			
		2535.0	20.49	20.66	20.58			
		2502.5	20.33	20.42	20.41			
	12RB-High (13)	2567.5	20.58	20.58	20.62	21.00	21.00	21.00
		2535.0	20.42	20.45	20.47			
		2502.5	20.28	20.33	20.33			
	12RB-Middle (6)	2567.5	20.57	20.61	20.63			
		2535.0	20.47	20.47	20.45			
		2502.5	20.31	20.35	20.37			
	12RB-Low (0)	2567.5	20.55	20.60	20.61			
		2535.0	20.46	20.47	20.47			
		2502.5	20.30	20.29	20.28			
	25RB (0)	2567.5	20.61	20.61	20.59			
		2535.0	20.47	20.47	20.44			
		2502.5	20.33	20.34	20.32			
10MHz	1RB-High (49)	2565.0	20.64	20.77	20.73	21.00	21.00	21.00
		2535.0	20.56	20.73	20.65			
		2505.0	20.40	20.56	20.51			
	1RB-Middle (24)	2565.0	20.63	20.76	20.76			
		2535.0	20.49	20.58	20.57			
		2505.0	20.32	20.42	20.43			
	1RB-Low (0)	2565.0	20.66	20.71	20.72			
		2535.0	20.46	20.62	20.55			
		2505.0	20.33	20.41	20.40			
	25RB-High (25)	2565.0	20.62	20.61	20.61	21.00	21.00	21.00
		2535.0	20.54	20.54	20.55			
		2505.0	20.38	20.39	20.33			
	25RB-Middle (12)	2565.0	20.66	20.68	20.66			
		2535.0	20.48	20.50	20.48			
		2505.0	20.32	20.39	20.36			
	25RB-Low (0)	2565.0	20.64	20.69	20.66			
		2535.0	20.45	20.46	20.44			
		2505.0	20.29	20.34	20.32			
	50RB (0)	2565.0	20.57	20.61	20.56			
		2535.0	20.47	20.51	20.48			
		2505.0	20.35	20.34	20.34			
15MHz	1RB-High (74)	2562.5	20.72	20.83	20.81	21.00	21.00	21.00
		2535.0	20.67	20.72	20.71			
		2507.5	20.52	20.67	20.59			
	1RB-Middle (37)	2562.5	20.63	20.75	20.80			
		2535.0	20.50	20.64	20.68			
		2507.5	20.37	20.53	20.43			
	1RB-Low (0)	2562.5	20.58	20.73	20.69			
		2535.0	20.40	20.57	20.57			
		2507.5	20.27	20.38	20.33			
	36RB-High (38)	2562.5	20.64	20.68	20.67	21.00	21.00	21.00
		2535.0	20.45	20.49	20.50			
		2507.5	20.36	20.38	20.42			
	36RB-Middle (19)	2562.5	20.59	20.61	20.64			
		2535.0	20.46	20.47	20.50			
		2507.5	20.34	20.37	20.40			
	36RB-Low (0)	2562.5	20.55	20.60	20.64			
		2535.0	20.39	20.43	20.42			
		2507.5	20.28	20.34	20.36			
	75RB (0)	2562.5	20.61	20.64	20.59			
		2535.0	20.44	20.46	20.44			
		2507.5	20.37	20.37	20.35			
20MHz	1RB-High (99)	2560.0	20.68	20.84	20.89	21.00	21.00	21.00
		2535.0	20.56	20.73	20.72			
		2510.0	20.51	20.58	20.69			
	1RB-Middle (50)	2560.0	20.63	20.82	20.80			
		2535.0	20.55	20.59	20.57			
		2510.0	20.37	20.49	20.56			
	1RB-Low (0)	2560.0	20.44	20.51	20.61			
		2535.0	20.44	20.53	20.56			
		2510.0	20.27	20.36	20.33			
	50RB-High (50)	2560.0	20.65	20.67	20.64	21.00	21.00	21.00
		2535.0	20.53	20.57	20.54			
		2510.0	20.41	20.42	20.43			
	50RB-Middle (25)	2560.0	20.63	20.66	20.68			
		2535.0	20.48	20.52	20.52			
		2510.0	20.40	20.42	20.44			
	50RB-Low (0)	2560.0	20.64	20.64	20.65			
		2535.0	20.43	20.43	20.43			
		2510.0	20.35	20.43	20.44			
	100RB (0)	2560.0	20.61	20.62	20.64			
		2535.0	20.45	20.45	20.49			
		2510.0	20.36	20.38	20.37			



Ant.5 - LTE Band 7 Power Level DSI 1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2567.5	19.63	19.75	19.63	20.00	20.00	20.00
		2535.0	19.50	19.63	19.57			
		2502.5	19.28	19.39	19.42			
	1RB-Middle (12)	2567.5	19.60	19.74	19.62			
		2535.0	19.43	19.60	19.57			
		2502.5	19.24	19.46	19.39			
	1RB-Low (0)	2567.5	19.64	19.76	19.63			
		2535.0	19.45	19.59	19.49			
		2502.5	19.22	19.42	19.39			
	12RB-High (13)	2567.5	19.58	19.60	19.55	20.00	20.00	20.00
		2535.0	19.41	19.44	19.46			
		2502.5	19.18	19.26	19.31			
	12RB-Middle (6)	2567.5	19.59	19.63	19.57			
		2535.0	19.43	19.48	19.46			
		2502.5	19.25	19.26	19.35			
	12RB-Low (0)	2567.5	19.56	19.59	19.57			
		2535.0	19.41	19.45	19.44			
		2502.5	19.22	19.22	19.30			
	25RB (0)	2567.5	19.60	19.63	19.55			
		2535.0	19.44	19.44	19.43			
		2502.5	19.29	19.28	19.29			
10MHz	1RB-High (49)	2565.0	19.65	19.78	19.64	20.00	20.00	20.00
		2535.0	19.55	19.64	19.55			
		2505.0	19.35	19.50	19.45			
	1RB-Middle (24)	2565.0	19.62	19.75	19.62			
		2535.0	19.44	19.59	19.56			
		2505.0	19.28	19.43	19.37			
	1RB-Low (0)	2565.0	19.60	19.71	19.63			
		2535.0	19.43	19.54	19.46			
		2505.0	19.25	19.32	19.38			
	25RB-High (25)	2565.0	19.58	19.64	19.55	20.00	20.00	20.00
		2535.0	19.52	19.54	19.52			
		2505.0	19.30	19.28	19.33			
	25RB-Middle (12)	2565.0	19.67	19.68	19.58			
		2535.0	19.47	19.48	19.44			
		2505.0	19.30	19.30	19.30			
	25RB-Low (0)	2565.0	19.68	19.68	19.62			
		2535.0	19.43	19.40	19.36			
		2505.0	19.28	19.32	19.30			
	50RB (0)	2565.0	19.58	19.65	19.55			
		2535.0	19.48	19.47	19.45			
		2505.0	19.27	19.28	19.30			
15MHz	1RB-High (74)	2562.5	19.72	19.85	19.80	20.00	20.00	20.00
		2535.0	19.56	19.72	19.72			
		2507.5	19.45	19.60	19.57			
	1RB-Middle (37)	2562.5	19.66	19.81	19.74			
		2535.0	19.48	19.59	19.60			
		2507.5	19.30	19.41	19.44			
	1RB-Low (0)	2562.5	19.53	19.71	19.71			
		2535.0	19.37	19.50	19.43			
		2507.5	19.22	19.33	19.36			
	36RB-High (38)	2562.5	19.63	19.66	19.67	20.00	20.00	20.00
		2535.0	19.47	19.47	19.51			
		2507.5	19.34	19.36	19.37			
	36RB-Middle (19)	2562.5	19.59	19.63	19.69			
		2535.0	19.44	19.44	19.53			
		2507.5	19.29	19.30	19.37			
	36RB-Low (0)	2562.5	19.59	19.60	19.64			
		2535.0	19.38	19.40	19.44			
		2507.5	19.25	19.31	19.32			
	75RB (0)	2562.5	19.65	19.60	19.63			
		2535.0	19.44	19.44	19.44			
		2507.5	19.32	19.31	19.32			
20MHz	1RB-High (99)	2560.0	19.75	19.77	19.87	20.00	20.00	20.00
		2535.0	19.58	19.69	19.62			
		2510.0	19.43	19.55	19.58			
	1RB-Middle (50)	2560.0	19.64	19.75	19.74			
		2535.0	19.43	19.56	19.49			
		2510.0	19.37	19.44	19.35			
	1RB-Low (0)	2560.0	19.42	19.51	19.59			
		2535.0	19.35	19.56	19.45			
		2510.0	19.20	19.34	19.28			
	50RB-High (50)	2560.0	19.71	19.67	19.71	20.00	20.00	20.00
		2535.0	19.53	19.52	19.55			
		2510.0	19.36	19.38	19.40			
	50RB-Middle (25)	2560.0	19.63	19.65	19.68			
		2535.0	19.50	19.49	19.52			
		2510.0	19.36	19.35	19.36			
	50RB-Low (0)	2560.0	19.63	19.63	19.62			
		2535.0	19.40	19.40	19.42			
		2510.0	19.31	19.35	19.36			
	100RB (0)	2560.0	19.59	19.64	19.65			
		2535.0	19.46	19.45	19.45			
		2510.0	19.30	19.28	19.35			



Ant.0 - LTE Band 12 Power Level DSI 2/4/1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
1.4MHz	1RB-High (5)	715.3	23.85	23.28	22.18	25.00	24.00	23.00
		707.5	23.89	23.22	22.13			
		699.7	23.84	23.26	22.15			
	1RB-Middle (3)	715.3	23.85	23.23	22.11			
		707.5	23.87	23.27	22.16			
		699.7	23.80	23.25	22.16			
	1RB-Low (0)	715.3	23.78	23.22	22.14			
		707.5	23.86	23.27	22.09			
		699.7	23.78	23.21	22.06			
	3RB-High (3)	715.3	23.85	23.09	22.17			
		707.5	23.87	23.03	22.12			
		699.7	23.85	23.01	22.08			
	3RB-Middle (1)	715.3	23.85	23.06	22.13			
		707.5	23.86	23.05	22.16			
		699.7	23.80	22.99	22.10			
	3RB-Low (0)	715.3	23.83	23.05	22.14			
		707.5	23.85	23.00	22.11			
		699.7	23.79	23.02	22.09			
	6RB (0)	715.3	23.06	22.09	21.02	24.00	23.00	22.00
		707.5	23.03	22.09	20.97			
		699.7	22.99	22.08	20.94			
3MHz	1RB-High (14)	714.5	23.83	23.29	22.21	25.00	24.00	23.00
		707.5	23.87	23.24	22.18			
		700.5	23.83	23.21	22.16			
	1RB-Middle (7)	714.5	23.85	23.33	22.25			
		707.5	23.88	23.25	22.12			
		700.5	23.87	23.30	22.19			
	1RB-Low (0)	714.5	23.79	23.29	22.13			
		707.5	23.86	23.30	22.13			
		700.5	23.77	23.20	22.11			
	8RB-High (7)	714.5	23.05	22.14	21.12	24.00	23.00	22.00
		707.5	22.98	22.04	21.06			
		700.5	23.03	22.09	21.08			
	8RB-Middle (4)	714.5	23.01	22.09	21.07			
		707.5	23.00	22.07	21.04			
		700.5	23.02	22.07	21.04			
	8RB-Low (0)	714.5	23.06	22.10	21.09			
		707.5	23.00	22.07	21.05			
		700.5	23.03	22.06	21.03			
	15RB (0)	714.5	23.03	22.05	21.07			
		707.5	23.00	22.06	21.01			
		700.5	23.04	22.04	21.01			
5MHz	1RB-High (24)	713.5	23.90	23.29	22.22	25.00	24.00	23.00
		707.5	23.89	23.27	22.27			
		701.5	23.91	23.33	22.20			
	1RB-Middle (12)	713.5	23.93	23.34	22.24			
		707.5	23.93	23.27	22.24			
		701.5	23.87	23.28	22.24			
	1RB-Low (0)	713.5	23.81	23.24	22.24			
		707.5	23.90	23.31	22.24			
		701.5	23.81	23.23	22.17			
	12RB-High (13)	713.5	23.10	22.07	21.09	24.00	23.00	22.00
		707.5	23.02	21.99	21.06			
		701.5	23.03	22.02	21.07			
	12RB-Middle (6)	713.5	23.06	22.06	21.13			
		707.5	23.05	22.05	21.07			
		701.5	23.02	22.03	21.09			
	12RB-Low (0)	713.5	22.99	22.00	21.02			
		707.5	23.04	22.04	21.07			
		701.5	23.01	22.02	21.08			
	25RB (0)	713.5	23.09	22.08	21.09			
		707.5	23.08	22.05	21.03			
		701.5	23.04	22.04	21.05			
10MHz	1RB-High (49)	711.0	24.00	23.37	22.31	25.00	24.00	23.00
		707.5	23.97	23.37	22.24			
		704.0	23.99	23.30	22.28			
	1RB-Middle (24)	711.0	23.96	23.33	22.29			
		707.5	23.94	23.34	22.21			
		704.0	23.93	23.28	22.18			
	1RB-Low (0)	711.0	23.91	23.28	22.19			
		707.5	23.88	23.25	22.10			
		704.0	23.88	23.25	22.15			
	25RB-High (25)	711.0	23.17	22.14	21.13	24.00	23.00	22.00
		707.5	23.08	22.03	21.02			
		704.0	23.16	22.15	21.17			
	25RB-Middle (12)	711.0	23.12	22.10	21.10			
		707.5	23.06	22.04	21.04			
		704.0	23.08	22.08	21.08			
	25RB-Low (0)	711.0	23.08	22.06	21.05			
		707.5	22.99	21.98	20.94			
		704.0	23.01	22.00	21.00			
	50RB (0)	711.0	23.12	22.12	21.07			
		707.5	23.07	22.09	21.06			
		704.0	23.09	22.09	21.09			



Ant.1 - LTE Band 12 Power Level DSI 2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
1.4MHz	1RB-High (5)	715.3	22.71	22.96	22.03	23.75	23.75	23.00
		707.5	22.69	22.90	22.09			
		699.7	22.71	22.90	22.11			
	1RB-Middle (3)	715.3	22.70	23.02	22.10			
		707.5	22.71	22.95	22.10			
		699.7	22.67	22.87	22.00			
	1RB-Low (0)	715.3	22.70	22.91	22.06			
		707.5	22.70	22.98	22.08			
		699.7	22.61	22.89	22.02			
	3RB-High (3)	715.3	22.72	22.78	22.05			
		707.5	22.70	22.73	22.04			
		699.7	22.68	22.72	22.11			
	3RB-Middle (1)	715.3	22.74	22.74	22.04			
		707.5	22.69	22.74	22.08			
		699.7	22.68	22.70	22.04			
	3RB-Low (0)	715.3	22.69	22.74	22.03			
		707.5	22.68	22.76	22.08			
		699.7	22.64	22.71	21.97			
	6RB (0)	715.3	22.76	22.07	20.93	23.75	23.00	22.00
		707.5	22.72	22.02	20.92			
		699.7	22.70	22.01	20.91			
3MHz	1RB-High (14)	714.5	22.69	23.03	22.09	23.75	23.75	23.00
		707.5	22.72	22.93	22.06			
		700.5	22.67	23.00	22.07			
	1RB-Middle (7)	714.5	22.72	23.00	22.07			
		707.5	22.69	22.90	22.08			
		700.5	22.71	22.97	22.14			
	1RB-Low (0)	714.5	22.67	22.95	22.03			
		707.5	22.68	22.95	22.05			
		700.5	22.63	22.86	22.02			
	8RB-High (7)	714.5	22.73	22.08	21.05			
		707.5	22.68	22.03	20.97			
		700.5	22.71	22.06	21.01			
	8RB-Middle (4)	714.5	22.72	22.01	20.96			
		707.5	22.73	22.02	20.98			
		700.5	22.71	22.05	20.94			
	8RB-Low (0)	714.5	22.76	22.08	21.00			
		707.5	22.70	22.02	20.93			
		700.5	22.72	22.02	20.95			
	15RB (0)	714.5	22.72	21.97	20.96			
		707.5	22.67	21.96	20.93			
		700.5	22.73	22.01	20.96			
5MHz	1RB-High (24)	713.5	22.77	22.96	22.13	23.75	23.75	23.00
		707.5	22.76	22.98	22.15			
		701.5	22.75	23.00	22.08			
	1RB-Middle (12)	713.5	22.75	22.95	22.09			
		707.5	22.76	23.00	22.10			
		701.5	22.73	22.98	22.12			
	1RB-Low (0)	713.5	22.70	22.98	22.00			
		707.5	22.75	22.98	22.13			
		701.5	22.70	22.89	22.08			
	12RB-High (13)	713.5	22.75	22.03	21.01			
		707.5	22.68	21.98	20.94			
		701.5	22.72	21.95	20.96			
	12RB-Middle (6)	713.5	22.76	22.04	20.99			
		707.5	22.73	21.98	20.99			
		701.5	22.72	21.99	21.01			
	12RB-Low (0)	713.5	22.67	21.95	20.91			
		707.5	22.70	21.97	20.95			
		701.5	22.74	21.96	20.98			
	25RB (0)	713.5	22.77	22.01	20.97			
		707.5	22.74	21.96	20.92			
		701.5	22.77	21.95	20.90			
10MHz	1RB-High (49)	711.0	22.85	23.08	22.17	23.75	23.75	23.00
		707.5	22.83	23.04	22.22			
		704.0	22.82	23.00	22.15			
	1RB-Middle (24)	711.0	22.78	22.99	22.11			
		707.5	22.76	23.02	22.11			
		704.0	22.77	22.95	22.10			
	1RB-Low (0)	711.0	22.72	22.94	22.08			
		707.5	22.67	22.92	22.04			
		704.0	22.70	22.93	22.03			
	25RB-High (25)	711.0	22.85	22.06	21.03			
		707.5	22.77	21.99	20.94			
		704.0	22.84	22.12	21.00			
	25RB-Middle (12)	711.0	22.77	22.00	20.96			
		707.5	22.74	22.01	20.95			
		704.0	22.74	22.02	21.00			
	25RB-Low (0)	711.0	22.73	22.00	20.94			
		707.5	22.64	21.87	20.84			
		704.0	22.70	21.96	20.92			
	50RB (0)	711.0	22.79	22.02	20.99			
		707.5	22.73	21.98	20.95			
		704.0	22.77	22.04	20.99			



Ant.1 - LTE Band 12 Power Level DSI 4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
1.4MHz	1RB-High (5)	715.3	21.42	21.63	21.57	22.25	22.25	22.25
		707.5	21.41	21.66	21.54			
		699.7	21.40	21.66	21.66			
	1RB-Middle (3)	715.3	21.40	21.69	21.62			
		707.5	21.41	21.64	21.65			
		699.7	21.36	21.60	21.60			
	1RB-Low (0)	715.3	21.42	21.60	21.61			
		707.5	21.38	21.65	21.67			
		699.7	21.37	21.65	21.60			
	3RB-High (3)	715.3	21.42	21.47	21.60			
		707.5	21.39	21.43	21.59			
		699.7	21.35	21.42	21.55			
	3RB-Middle (1)	715.3	21.40	21.44	21.57			
		707.5	21.40	21.46	21.62			
		699.7	21.41	21.40	21.60			
	3RB-Low (0)	715.3	21.38	21.45	21.57			
		707.5	21.39	21.38	21.61			
		699.7	21.32	21.39	21.56			
	6RB (0)	715.3	21.45	21.57	21.22	22.25	22.25	22.00
		707.5	21.43	21.50	21.19			
		699.7	21.38	21.49	21.19			
3MHz	1RB-High (14)	714.5	21.45	21.71	21.60	22.25	22.25	22.25
		707.5	21.44	21.72	21.58			
		700.5	21.37	21.64	21.63			
	1RB-Middle (7)	714.5	21.45	21.67	21.67			
		707.5	21.41	21.64	21.61			
		700.5	21.40	21.68	21.61			
	1RB-Low (0)	714.5	21.43	21.69	21.64			
		707.5	21.44	21.68	21.65			
		700.5	21.33	21.52	21.53			
	8RB-High (7)	714.5	21.45	21.54	21.30	22.25	22.25	22.00
		707.5	21.38	21.46	21.26			
		700.5	21.43	21.51	21.27			
	8RB-Middle (4)	714.5	21.41	21.49	21.26			
		707.5	21.43	21.50	21.26			
		700.5	21.41	21.49	21.24			
	8RB-Low (0)	714.5	21.47	21.54	21.29			
		707.5	21.41	21.49	21.25			
		700.5	21.46	21.48	21.21			
	15RB (0)	714.5	21.41	21.46	21.26			
		707.5	21.42	21.43	21.20			
		700.5	21.47	21.51	21.25			
5MHz	1RB-High (24)	713.5	21.49	21.74	21.72	22.25	22.25	22.25
		707.5	21.46	21.72	21.60			
		701.5	21.50	21.68	21.69			
	1RB-Middle (12)	713.5	21.46	21.69	21.65			
		707.5	21.47	21.74	21.65			
		701.5	21.45	21.67	21.61			
	1RB-Low (0)	713.5	21.39	21.63	21.58			
		707.5	21.47	21.76	21.69			
		701.5	21.40	21.66	21.61			
	12RB-High (13)	713.5	21.46	21.48	21.30	22.25	22.25	22.00
		707.5	21.39	21.41	21.24			
		701.5	21.44	21.44	21.27			
	12RB-Middle (6)	713.5	21.45	21.48	21.31			
		707.5	21.46	21.47	21.29			
		701.5	21.40	21.49	21.27			
	12RB-Low (0)	713.5	21.41	21.39	21.21			
		707.5	21.42	21.47	21.25			
		701.5	21.41	21.47	21.28			
	25RB (0)	713.5	21.48	21.47	21.27			
		707.5	21.43	21.43	21.21			
		701.5	21.44	21.49	21.24			
10MHz	1RB-High (49)	711.0	21.58	21.78	21.78	22.25	22.25	22.25
		707.5	21.53	21.76	21.71			
		704.0	21.51	21.74	21.65			
	1RB-Middle (24)	711.0	21.51	21.74	21.65			
		707.5	21.47	21.65	21.69			
		704.0	21.48	21.72	21.62			
	1RB-Low (0)	711.0	21.46	21.71	21.64			
		707.5	21.41	21.65	21.57			
		704.0	21.41	21.66	21.59			
	25RB-High (25)	711.0	21.59	21.54	21.35	22.25	22.25	22.00
		707.5	21.48	21.45	21.24			
		704.0	21.57	21.56	21.34			
	25RB-Middle (12)	711.0	21.51	21.48	21.28			
		707.5	21.47	21.50	21.26			
		704.0	21.47	21.46	21.29			
	25RB-Low (0)	711.0	21.50	21.47	21.26			
		707.5	21.37	21.35	21.17			
		704.0	21.40	21.42	21.23			
	50RB (0)	711.0	21.50	21.48	21.28			
		707.5	21.44	21.47	21.22			
		704.0	21.48	21.50	21.28			



Ant.1 - LTE Band 12 Power Level DSI 1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
1.4MHz	1RB-High (5)	715.3	23.80	23.22	22.02	25.00	24.00	23.00
		707.5	23.83	23.20	22.07			
		699.7	23.83	23.24	22.11			
	1RB-Middle (3)	715.3	23.83	23.26	22.16			
		707.5	23.85	23.20	22.10			
		699.7	23.81	23.15	22.08			
	1RB-Low (0)	715.3	23.77	23.15	22.15			
		707.5	23.82	23.23	22.10			
		699.7	23.77	23.15	22.06			
	3RB-High (3)	715.3	23.81	23.02	22.13			
		707.5	23.84	23.03	22.13			
		699.7	23.80	22.96	22.04			
	3RB-Middle (1)	715.3	23.83	23.04	22.14			
		707.5	23.81	23.05	22.01			
		699.7	23.77	22.98	22.05			
	3RB-Low (0)	715.3	23.78	23.04	22.06			
		707.5	23.82	22.98	22.09			
		699.7	23.76	22.93	21.99			
	6RB (0)	715.3	23.04	22.12	20.94	24.00	23.00	22.00
		707.5	23.03	22.04	20.95			
		699.7	22.98	22.01	20.91			
3MHz	1RB-High (14)	714.5	23.83	23.23	22.11	25.00	24.00	23.00
		707.5	23.81	23.19	22.13			
		700.5	23.78	23.26	22.08			
	1RB-Middle (7)	714.5	23.77	23.25	22.09			
		707.5	23.79	23.23	22.17			
		700.5	23.79	23.21	22.14			
	1RB-Low (0)	714.5	23.84	23.26	22.14			
		707.5	23.81	23.18	22.16			
		700.5	23.76	23.18	22.11			
	8RB-High (7)	714.5	23.03	22.10	21.05	24.00	23.00	22.00
		707.5	22.95	22.04	20.99			
		700.5	23.00	22.09	21.03			
	8RB-Middle (4)	714.5	22.98	22.05	21.00			
		707.5	23.00	22.04	21.01			
		700.5	23.00	22.04	20.98			
	8RB-Low (0)	714.5	23.07	22.09	21.01			
		707.5	22.98	22.04	20.96			
		700.5	23.00	22.04	20.96			
	15RB (0)	714.5	23.00	22.02	20.97			
		707.5	22.95	21.98	21.01			
		700.5	23.01	22.06	20.96			
5MHz	1RB-High (24)	713.5	23.90	23.25	22.17	25.00	24.00	23.00
		707.5	23.85	23.30	22.20			
		701.5	23.86	23.30	22.14			
	1RB-Middle (12)	713.5	23.88	23.25	22.12			
		707.5	23.89	23.26	22.09			
		701.5	23.83	23.21	22.17			
	1RB-Low (0)	713.5	23.79	23.18	22.14			
		707.5	23.89	23.28	22.15			
		701.5	23.77	23.23	22.10			
	12RB-High (13)	713.5	23.03	22.04	21.01	24.00	23.00	22.00
		707.5	23.00	21.99	20.97			
		701.5	22.97	21.99	20.96			
	12RB-Middle (6)	713.5	23.05	22.05	21.04			
		707.5	23.01	22.05	21.04			
		701.5	23.00	22.01	21.02			
	12RB-Low (0)	713.5	22.95	21.98	20.97			
		707.5	22.98	21.98	21.00			
		701.5	23.02	22.02	21.00			
	25RB (0)	713.5	23.08	22.04	21.01			
		707.5	23.02	21.99	20.97			
		701.5	23.03	22.00	20.98			
10MHz	1RB-High (49)	711.0	23.95	23.33	22.18	25.00	24.00	23.00
		707.5	23.91	23.34	22.17			
		704.0	23.90	23.30	22.16			
	1RB-Middle (24)	711.0	23.89	23.28	22.20			
		707.5	23.88	23.25	22.16			
		704.0	23.87	23.28	22.12			
	1RB-Low (0)	711.0	23.82	23.23	22.09			
		707.5	23.79	23.23	22.04			
		704.0	23.80	23.17	22.05			
	25RB-High (25)	711.0	23.14	22.10	21.06	24.00	23.00	22.00
		707.5	23.04	22.03	20.98			
		704.0	23.13	22.10	21.10			
	25RB-Middle (12)	711.0	23.08	22.07	20.99			
		707.5	22.99	22.01	20.97			
		704.0	23.03	22.06	21.01			
	25RB-Low (0)	711.0	23.02	22.03	20.97			
		707.5	22.93	21.92	20.88			
		704.0	22.95	22.00	20.96			
	50RB (0)	711.0	23.06	22.05	21.02			
		707.5	23.04	22.03	20.96			
		704.0	23.06	22.05	20.98			



Ant.0 - LTE Band 13 Power Level DSI 2/4/1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	784.5	22.79	22.13	20.99	24.00	23.00	22.00
		782.0	22.73	22.11	21.09			
		779.5	22.75	22.22	21.05			
	1RB-Middle (12)	784.5	22.77	22.21	21.13			
		782.0	22.80	22.17	21.08			
		779.5	22.79	22.21	21.09			
	1RB-Low (0)	784.5	22.75	22.18	21.07			
		782.0	22.78	22.23	21.07			
		779.5	22.72	22.11	20.95			
	12RB-High (13)	784.5	21.86	20.89	19.91	23.00	22.00	21.00
		782.0	21.84	20.85	19.91			
		779.5	21.94	20.95	19.98			
	12RB-Middle (6)	784.5	21.89	20.94	19.95			
		782.0	21.89	20.89	19.93			
		779.5	21.88	20.90	19.94			
	12RB-Low (0)	784.5	21.93	20.95	19.96			
		782.0	21.85	20.88	19.90			
		779.5	21.85	20.84	19.86			
	25RB (0)	784.5	21.92	20.91	19.92			
		782.0	21.94	20.90	19.90			
		779.5	21.94	20.91	19.92			
10MHz	1RB-High (49)	782.0	22.79	22.21	21.06	24.00	23.00	22.00
	1RB-Middle (24)	782.0	22.75	22.16	21.10			
	1RB-Low (0)	782.0	22.73	22.07	21.02			
	25RB-High (25)	782.0	21.91	20.86	19.86	23.00	22.00	21.00
	25RB-Middle (12)	782.0	21.93	20.94	19.91			
	25RB-Low (0)	782.0	21.85	20.78	19.84			
	50RB (0)	782.0	21.92	20.90	19.89			



Ant.1 - LTE Band 13 Power Level DSI 2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	784.5	21.62	21.80	20.98	22.75	22.75	22.00
		782.0	21.65	21.83	21.00			
		779.5	21.65	21.87	21.08			
	1RB-Middle (12)	784.5	21.63	21.85	21.01			
		782.0	21.67	21.91	21.05			
		779.5	21.71	21.95	21.00			
	1RB-Low (0)	784.5	21.63	21.88	21.05			
		782.0	21.65	21.88	21.11			
		779.5	21.59	21.77	20.97			
	12RB-High (13)	784.5	21.58	20.84	19.87	22.75	22.00	21.00
		782.0	21.58	20.86	19.86			
		779.5	21.62	20.90	19.89			
	12RB-Middle (6)	784.5	21.60	20.91	19.90			
		782.0	21.60	20.87	19.91			
		779.5	21.62	20.90	19.89			
	12RB-Low (0)	784.5	21.66	20.92	19.95			
		782.0	21.56	20.82	19.82			
		779.5	21.52	20.83	19.83			
	25RB (0)	784.5	21.61	20.90	19.89			
		782.0	21.64	20.87	19.82			
		779.5	21.66	20.89	19.88			
10MHz	1RB-High (49)	782.0	21.62	21.86	20.97	22.75	22.75	22.00
	1RB-Middle (24)	782.0	21.66	21.86	21.00			
	1RB-Low (0)	782.0	21.57	21.81	20.96			
	25RB-High (25)	782.0	21.60	20.82	19.83	22.75	22.00	21.00
	25RB-Middle (12)	782.0	21.59	20.89	19.89			
	25RB-Low (0)	782.0	21.53	20.74	19.72			
	50RB (0)	782.0	21.63	20.89	19.87			



Ant.1 - LTE Band 13 Power Level DSI 4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	784.5	20.32	20.47	20.49	21.25	21.25	21.25
		782.0	20.33	20.44	20.47			
		779.5	20.40	20.53	20.53			
	1RB-Middle (12)	784.5	20.38	20.50	20.53			
		782.0	20.39	20.52	20.55			
		779.5	20.40	20.56	20.58			
	1RB-Low (0)	784.5	20.37	20.56	20.51			
		782.0	20.37	20.52	20.57			
		779.5	20.30	20.47	20.44			
	12RB-High (13)	784.5	20.26	20.28	20.11	21.25	21.25	21.00
		782.0	20.25	20.28	20.13			
		779.5	20.33	20.38	20.21			
	12RB-Middle (6)	784.5	20.31	20.35	20.18			
		782.0	20.31	20.32	20.17			
		779.5	20.31	20.34	20.16			
	12RB-Low (0)	784.5	20.38	20.39	20.20			
		782.0	20.27	20.31	20.11			
		779.5	20.23	20.30	20.07			
	25RB (0)	784.5	20.36	20.34	20.15			
		782.0	20.34	20.36	20.12			
		779.5	20.32	20.40	20.12			
10MHz	1RB-High (49)	782.0	20.34	20.57	20.53	21.25	21.25	21.25
	1RB-Middle (24)	782.0	20.35	20.50	20.50			
	1RB-Low (0)	782.0	20.30	20.40	20.47			
	25RB-High (25)	782.0	20.35	20.31	20.10	21.25	21.25	21.00
	25RB-Middle (12)	782.0	20.34	20.33	20.17			
	25RB-Low (0)	782.0	20.20	20.25	20.02			
	50RB (0)	782.0	20.36	20.34	20.16			



Ant.1 - LTE Band 13 Power Level DSI 1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	784.5	22.75	22.13	21.03	24.00	23.00	22.00
		782.0	22.73	22.07	21.05			
		779.5	22.74	22.14	21.11			
	1RB-Middle (12)	784.5	22.74	22.15	21.07			
		782.0	22.74	22.13	21.01			
		779.5	22.81	22.19	21.09			
	1RB-Low (0)	784.5	22.72	22.11	21.06			
		782.0	22.74	22.17	21.10			
		779.5	22.72	22.07	20.99			
	12RB-High (13)	784.5	21.87	20.86	19.92	23.00	22.00	21.00
		782.0	21.84	20.84	19.89			
		779.5	21.94	20.92	19.96			
	12RB-Middle (6)	784.5	21.90	20.88	19.92			
		782.0	21.88	20.88	19.90			
		779.5	21.87	20.91	19.89			
	12RB-Low (0)	784.5	21.92	20.91	19.97			
		782.0	21.84	20.86	19.89			
		779.5	21.83	20.82	19.85			
	25RB (0)	784.5	21.91	20.88	19.86			
		782.0	21.89	20.87	19.83			
		779.5	21.94	20.87	19.91			
10MHz	1RB-High (49)	782.0	22.77	22.13	20.98	24.00	23.00	22.00
	1RB-Middle (24)	782.0	22.79	22.15	21.01			
	1RB-Low (0)	782.0	22.71	22.06	20.94			
	25RB-High (25)	782.0	21.90	20.84	19.83	23.00	22.00	21.00
	25RB-Middle (12)	782.0	21.89	20.86	19.87			
	25RB-Low (0)	782.0	21.83	20.78	19.76			
	50RB (0)	782.0	21.90	20.91	19.91			



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Ant.0 - LTE Band 26 Power Level DSI 2/4/1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
1.4MHz	1RB-High (5)	848.3	23.77	23.00	21.88	25.00	24.00	23.00
		831.5	23.78	22.96	21.79			
		814.7	23.85	23.16	21.92			
	1RB-Middle (3)	848.3	23.80	22.96	21.80			
		831.5	23.80	23.03	21.88			
		814.7	23.89	23.11	22.00			
	1RB-Low (0)	848.3	23.71	22.92	21.78			
		831.5	23.78	22.96	21.86			
		814.7	23.87	23.22	22.01			
	3RB-High (3)	848.3	23.74	22.76	21.83			
		831.5	23.73	22.76	21.82			
		814.7	23.88	22.90	21.91			
	3RB-Middle (1)	848.3	23.75	22.76	21.82			
		831.5	23.78	22.77	21.87			
		814.7	23.87	22.89	21.96			
	3RB-Low (0)	848.3	23.71	22.65	21.80			
		831.5	23.76	22.76	21.80			
		814.7	23.87	22.92	21.93			
	6RB (0)	848.3	22.71	21.80	20.90	24.00	23.00	22.00
		831.5	22.77	21.81	20.92			
		814.7	22.88	21.90	21.04			
3MHz	1RB-High (14)	847.5	23.66	22.96	21.83	25.00	24.00	23.00
		831.5	23.68	23.02	21.80			
		815.5	23.71	23.05	21.97			
	1RB-Middle (7)	847.5	23.67	22.96	21.80			
		831.5	23.72	23.00	21.83			
		815.5	23.76	23.06	22.07			
	1RB-Low (0)	847.5	23.63	22.91	21.82			
		831.5	23.70	23.00	21.92			
		815.5	23.75	23.00	21.99			
	6RB-High (7)	847.5	22.69	21.75	20.95	24.00	23.00	22.00
		831.5	22.73	21.80	21.02			
		815.5	22.77	21.80	21.20			
	6RB-Middle (4)	847.5	22.69	21.74	20.91			
		831.5	22.68	21.75	20.95			
		815.5	22.73	21.76	21.09			
	6RB-Low (0)	847.5	22.71	21.78	20.94			
		831.5	22.74	21.77	21.01			
		815.5	22.75	21.82	21.10			
	15RB (0)	847.5	22.66	21.88	20.91			
		831.5	22.71	21.82	20.97			
		815.5	22.72	21.75	21.11			
5MHz	1RB-High (24)	846.5	23.71	22.94	21.84	25.00	24.00	23.00
		831.5	23.74	23.01	21.86			
		816.5	23.96	23.19	22.07			
	1RB-Middle (12)	846.5	23.67	22.95	21.83			
		831.5	23.76	22.93	21.90			
		816.5	23.90	23.13	22.02			
	1RB-Low (0)	846.5	23.64	22.93	21.79			
		831.5	23.75	23.03	21.92			
		816.5	23.88	23.07	21.99			
	12RB-High (13)	846.5	22.61	21.81	20.90	24.00	23.00	22.00
		831.5	22.71	21.71	21.01			
		816.5	22.84	21.87	21.11			
	12RB-Middle (6)	846.5	22.68	21.66	20.94			
		831.5	22.71	21.74	21.00			
		816.5	22.85	21.87	21.14			
	12RB-Low (0)	846.5	22.64	21.66	20.96			
		831.5	22.70	21.71	21.04			
		816.5	22.77	21.83	21.06			
	25RB (0)	846.5	22.66	21.59	20.92			
		831.5	22.71	21.69	20.94			
		816.5	22.82	21.80	21.06			
10MHz	1RB-High (49)	844.0	23.73	22.95	21.82	25.00	24.00	23.00
		831.5	23.74	22.99	21.84			
		819.0	23.86	23.08	21.99			
	1RB-Middle (24)	844.0	23.69	23.01	21.80			
		831.5	23.79	22.98	21.93			
		819.0	23.85	23.06	21.93			
	1RB-Low (0)	844.0	23.68	22.95	21.79			
		831.5	23.82	23.04	21.88			
		819.0	23.85	23.09	21.94			
	25RB-High (25)	844.0	22.67	21.64	20.88	24.00	23.00	22.00
		831.5	22.74	21.73	20.99			
		819.0	22.80	21.78	20.98			
	25RB-Middle (12)	844.0	22.62	21.62	20.91			
		831.5	22.75	21.71	20.97			
		819.0	22.85	21.83	21.02			
	25RB-Low (0)	844.0	22.72	21.66	20.94			
		831.5	22.78	21.76	20.97			
		819.0	22.79	21.77	20.99			
	50RB (0)	844.0	22.61	21.60	20.88			
		831.5	22.74	21.71	20.97			
		819.0	22.76	21.72	21.00			
15MHz	1RB-High (74)	841.5	23.73	22.94	21.77	25.00	24.00	23.00
		831.5	23.81	23.03	21.85			
		822.5	23.88	23.10	21.95			
	1RB-Middle (37)	841.5	23.68	22.96	21.80			
		831.5	23.79	22.95	21.85			
		822.5	23.87	23.06	21.94			
	1RB-Low (0)	841.5	23.71	22.94	21.81			
		831.5	23.79	22.98	21.86			
		822.5	23.85	23.03	21.97			
	36RB-High (38)	841.5	22.65	21.65	20.97	24.00	23.00	22.00
		831.5	22.72	21.71	21.01			
		822.5	22.76	21.72	21.01			
	36RB-Middle (19)	841.5	22.66	21.64	20.89			
		831.5	22.67	21.71	20.99			
		822.5	22.77	21.79	21.03			
	36RB-Low (0)	841.5	22.63	21.62	20.95			
		831.5	22.73	21.75	21.03			
		822.5	22.78	21.77	21.04			
	75RB (0)	841.5	22.63	21.66	20.93			
		831.5	22.71	21.70	20.92			
		822.5	22.79	21.73	21.01			



Ant.1 - LTE Band 26 Power Level DSI 2/4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
1.4MHz	1RB-High (5)	848.3	20.31	20.53	20.63	21.25	21.25	21.25
		831.5	20.34	20.54	20.56			
		814.7	20.45	20.76	20.73			
	1RB-Middle (3)	848.3	20.30	20.56	20.62			
		831.5	20.37	20.62	20.61			
		814.7	20.46	20.67	20.73			
	1RB-Low (0)	848.3	20.28	20.48	20.53			
		831.5	20.39	20.57	20.61			
		814.7	20.46	20.67	20.66			
	3RB-High (3)	848.3	20.30	20.32	20.48			
		831.5	20.32	20.38	20.56			
		814.7	20.43	20.48	20.64			
	3RB-Middle (1)	848.3	20.29	20.31	20.55			
		831.5	20.36	20.37	20.56			
		814.7	20.47	20.49	20.66			
	3RB-Low (0)	848.3	20.26	20.26	20.46			
		831.5	20.33	20.40	20.53			
		814.7	20.43	20.44	20.64			
	6RB (0)	848.3	20.29	20.37	20.41			
		831.5	20.34	20.44	20.43			
		814.7	20.49	20.55	20.51			
3MHz	1RB-High (14)	847.5	20.30	20.51	20.49	21.25	21.25	21.25
		831.5	20.34	20.59	20.52			
		815.5	20.56	20.58	20.69			
	1RB-Middle (7)	847.5	20.25	20.53	20.47			
		831.5	20.39	20.59	20.56			
		815.5	20.55	20.56	20.71			
	1RB-Low (0)	847.5	20.21	20.50	20.47			
		831.5	20.36	20.53	20.53			
		815.5	20.52	20.62	20.68			
	8RB-High (7)	847.5	20.30	20.39	20.42			
		831.5	20.33	20.45	20.47			
		815.5	20.53	20.43	20.63			
	8RB-Middle (4)	847.5	20.29	20.35	20.34			
		831.5	20.31	20.39	20.39			
		815.5	20.51	20.39	20.59			
	8RB-Low (0)	847.5	20.32	20.39	20.40			
		831.5	20.39	20.48	20.46			
		815.5	20.50	20.45	20.55			
	15RB (0)	847.5	20.28	20.36	20.32			
		831.5	20.35	20.39	20.41			
		815.5	20.48	20.40	20.59			
5MHz	1RB-High (24)	846.5	20.37	20.64	20.54	21.25	21.25	21.25
		831.5	20.40	20.62	20.61			
		816.5	20.55	20.75	20.71			
	1RB-Middle (12)	846.5	20.32	20.55	20.47			
		831.5	20.41	20.63	20.59			
		816.5	20.48	20.74	20.71			
	1RB-Low (0)	846.5	20.28	20.55	20.49			
		831.5	20.44	20.61	20.62			
		816.5	20.50	20.72	20.65			
	12RB-High (13)	846.5	20.21	20.25	20.32			
		831.5	20.33	20.40	20.45			
		816.5	20.47	20.55	20.57			
	12RB-Middle (6)	846.5	20.28	20.36	20.38			
		831.5	20.40	20.42	20.48			
		816.5	20.50	20.49	20.57			
	12RB-Low (0)	846.5	20.29	20.38	20.37			
		831.5	20.38	20.43	20.47			
		816.5	20.39	20.45	20.49			
	25RB (0)	846.5	20.29	20.33	20.33			
		831.5	20.37	20.42	20.42			
		816.5	20.46	20.46	20.52			
10MHz	1RB-High (49)	844.0	20.37	20.56	20.53	21.25	21.25	21.25
		831.5	20.40	20.61	20.54			
		819.0	20.46	20.70	20.64			
	1RB-Middle (24)	844.0	20.30	20.55	20.46			
		831.5	20.40	20.62	20.57			
		819.0	20.44	20.65	20.57			
	1RB-Low (0)	844.0	20.31	20.60	20.45			
		831.5	20.37	20.60	20.47			
		819.0	20.48	20.73	20.63			
	25RB-High (25)	844.0	20.21	20.28	20.24			
		831.5	20.35	20.35	20.38			
		819.0	20.40	20.43	20.44			
	25RB-Middle (12)	844.0	20.31	20.30	20.32			
		831.5	20.39	20.41	20.42			
		819.0	20.44	20.47	20.47			
	25RB-Low (0)	844.0	20.27	20.31	20.31			
		831.5	20.40	20.42	20.51			
		819.0	20.39	20.38	20.42			
	50RB (0)	844.0	20.29	20.31	20.31			
		831.5	20.42	20.40	20.41			
		819.0	20.36	20.40	20.44			
15MHz	1RB-High (74)	841.5	20.36	20.58	20.45	21.25	21.25	21.25
		831.5	20.41	20.60	20.58			
		822.5	20.50	20.66	20.66			
	1RB-Middle (37)	841.5	20.37	20.63	20.46			
		831.5	20.42	20.64	20.52			
		822.5	20.52	20.64	20.53			
	1RB-Low (0)	841.5	20.33	20.65	20.53			
		831.5	20.36	20.58	20.46			
		822.5	20.46	20.69	20.61			
	36RB-High (38)	841.5	20.24	20.31	20.36			
		831.5	20.34	20.39	20.43			
		822.5	20.37	20.40	20.40			
	36RB-Middle (19)	841.5	20.24	20.31	20.35			
		831.5	20.36	20.34	20.42			
		822.5	20.39	20.42	20.48			
	36RB-Low (0)	841.5	20.25	20.31	20.33			
		831.5	20.36	20.46	20.46			
		822.5	20.38	20.42	20.45			
	75RB (0)	841.5	20.30	20.37	20.38			
		831.5	20.34	20.34	20.39			
		822.5	20.37	20.35	20.42			



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Ant.1 - LTE Band 26 Power Level DSI 1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
1.4MHz	1RB-High (5)	848.3	23.74	22.98	21.82	25.00	24.00	23.00
		831.5	23.75	23.02	21.84			
		814.7	23.91	23.17	21.93			
	1RB-Middle (3)	848.3	23.73	22.94	21.89			
		831.5	23.80	23.06	21.86			
		814.7	23.89	23.18	21.95			
	1RB-Low (0)	848.3	23.74	22.97	21.79			
		831.5	23.77	23.00	21.85			
		814.7	23.90	23.13	21.95			
	3RB-High (3)	848.3	23.76	22.75	21.80			
		831.5	23.74	22.73	21.79			
		814.7	23.86	22.93	22.00			
	3RB-Middle (1)	848.3	23.75	22.74	21.86			
		831.5	23.79	22.79	21.85			
		814.7	23.85	22.87	21.98			
	3RB-Low (0)	848.3	23.70	22.70	21.76			
		831.5	23.78	22.83	21.86			
		814.7	23.86	22.89	21.98			
	6RB (0)	848.3	22.73	21.80	20.94	24.00	23.00	22.00
		831.5	22.76	21.78	20.94			
3MHz	1RB-High (14)	847.5	23.68	22.98	21.78	25.00	24.00	23.00
		831.5	23.71	23.02	21.82			
		815.5	23.93	23.22	22.03			
	1RB-Middle (7)	847.5	23.69	23.01	21.81			
		831.5	23.72	23.05	21.82			
		815.5	23.93	23.19	21.98			
	1RB-Low (0)	847.5	23.64	22.91	21.75			
		831.5	23.68	23.00	21.81			
		815.5	23.92	23.17	22.01			
	6RB-High (7)	847.5	22.68	21.80	20.94		24.00	23.00
		831.5	22.69	21.86	21.00			
		815.5	22.92	22.00	21.19			
	6RB-Middle (4)	847.5	22.66	21.75	20.90			
		831.5	22.68	21.81	20.98			
		815.5	22.87	21.97	21.08			
	6RB-Low (0)	847.5	22.72	21.78	20.95			
		831.5	22.74	21.87	21.02			
		815.5	22.89	21.95	21.10			
	15RB (0)	847.5	22.67	21.79	20.92			
		831.5	22.71	21.79	20.96			
		815.5	22.87	21.90	21.10			
5MHz	1RB-High (24)	846.5	23.72	22.96	21.80	25.00	24.00	23.00
		831.5	23.77	22.99	21.87			
		816.5	23.94	23.14	22.07			
	1RB-Middle (12)	846.5	23.68	22.96	21.80			
		831.5	23.79	23.02	21.87			
		816.5	23.93	23.16	22.01			
	1RB-Low (0)	846.5	23.63	22.87	21.75			
		831.5	23.78	22.97	21.90			
		816.5	23.88	23.10	21.97			
	12RB-High (13)	846.5	22.54	21.86	20.84		24.00	23.00
		831.5	22.69	21.89	20.96			
		816.5	22.85	21.86	21.14			
	12RB-Middle (6)	846.5	22.64	21.67	20.93			
		831.5	22.72	21.76	21.03			
		816.5	22.89	21.87	21.15			
	12RB-Low (0)	846.5	22.64	21.68	20.97			
		831.5	22.79	21.78	21.04			
		816.5	22.79	21.79	21.06			
	25RB (0)	846.5	22.63	21.65	20.88			
		831.5	22.77	21.73	20.98			
		816.5	22.81	21.81	21.07			
10MHz	1RB-High (49)	844.0	23.74	23.01	21.80	25.00	24.00	23.00
		831.5	23.76	22.98	21.81			
		819.0	23.89	23.07	21.99			
	1RB-Middle (24)	844.0	23.68	22.95	21.84			
		831.5	23.78	23.00	21.91			
		819.0	23.86	23.04	21.95			
	1RB-Low (0)	844.0	23.67	22.95	21.74			
		831.5	23.81	22.96	21.94			
		819.0	23.85	23.10	21.92			
	25RB-High (25)	844.0	22.56	21.55	20.78		24.00	23.00
		831.5	22.72	21.68	20.94			
		819.0	22.83	21.77	21.04			
	25RB-Middle (12)	844.0	22.65	21.63	20.89			
		831.5	22.74	21.71	20.98			
		819.0	22.83	21.82	21.04			
	25RB-Low (0)	844.0	22.64	21.63	20.85			
		831.5	22.80	21.79	21.03			
		819.0	22.75	21.76	20.98			
	50RB (0)	844.0	22.54	21.55	20.88			
		831.5	22.69	21.71	20.98			
		819.0	22.76	21.73	21.04			
15MHz	1RB-High (74)	841.5	23.71	22.92	21.89	25.00	24.00	23.00
		831.5	23.73	22.99	21.88			
		822.5	23.86	23.06	21.97			
	1RB-Middle (37)	841.5	23.72	22.93	21.81			
		831.5	23.83	22.97	21.90			
		822.5	23.91	23.08	22.04			
	1RB-Low (0)	841.5	23.68	22.94	21.75			
		831.5	23.81	23.02	21.95			
		822.5	23.83	23.09	21.99			
	36RB-High (38)	841.5	22.59	21.59	20.88		24.00	23.00
		831.5	22.67	21.68	20.97			
		822.5	22.73	21.74	21.01			
	36RB-Middle (19)	841.5	22.62	21.63	20.91			
		831.5	22.71	21.71	20.95			
		822.5	22.79	21.81	20.98			
	36RB-Low (0)	841.5	22.61	21.62	20.89			
		831.5	22.73	21.73	21.05			
		822.5	22.75	21.76	21.03			
	75RB (0)	841.5	22.64	21.63	20.94			
		831.5	22.69	21.62	20.92			
		822.5	22.76	21.77	20.97			



Ant.0 - LTE Band 38 Power Level DSI 2/4/1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2617.5	24.47	23.62	22.37	25.00	24.00	23.00
		2595.0	24.32	23.59	22.32			
		2572.5	24.30	23.56	22.30			
	1RB-Middle (12)	2617.5	24.45	23.60	22.34			
		2595.0	24.34	23.54	22.33			
		2572.5	24.28	23.48	22.27			
	1RB-Low (0)	2617.5	24.43	23.61	22.36			
		2595.0	24.31	23.54	22.30			
		2572.5	24.20	23.47	22.19			
	12RB-High (13)	2617.5	23.56	22.52	21.57	24.00	23.00	22.00
		2595.0	23.52	22.47	21.50			
		2572.5	23.47	22.49	21.50			
	12RB-Middle (6)	2617.5	23.58	22.53	21.63			
		2595.0	23.49	22.49	21.51			
		2572.5	23.46	22.44	21.51			
	12RB-Low (0)	2617.5	23.57	22.52	21.62			
		2595.0	23.49	22.45	21.52			
		2572.5	23.43	22.42	21.45			
	25RB (0)	2617.5	23.58	22.58	21.63			
		2595.0	23.55	22.56	21.55			
		2572.5	23.52	22.52	21.55			
10MHz	1RB-High (49)	2615.0	24.46	23.64	22.34	25.00	24.00	23.00
		2595.0	24.28	23.59	22.31			
		2575.0	24.29	23.61	22.28			
	1RB-Middle (24)	2615.0	24.45	23.62	22.35			
		2595.0	24.25	23.58	22.32			
		2575.0	24.29	23.57	22.29			
	1RB-Low (0)	2615.0	24.40	23.61	22.36			
		2595.0	24.30	23.60	22.28			
		2575.0	24.20	23.54	22.17			
	25RB-High (25)	2615.0	23.57	22.56	21.60	24.00	23.00	22.00
		2595.0	23.56	22.53	21.59			
		2575.0	23.61	22.57	21.64			
	25RB-Middle (12)	2615.0	23.59	22.59	21.63			
		2595.0	23.53	22.56	21.60			
		2575.0	23.56	22.53	21.57			
	25RB-Low (0)	2615.0	23.59	22.59	21.59			
		2595.0	23.53	22.55	21.57			
		2575.0	23.54	22.52	21.59			
	50RB (0)	2615.0	23.57	22.59	21.60			
		2595.0	23.56	22.53	21.53			
		2575.0	23.54	22.53	21.55			
15MHz	1RB-High (74)	2612.5	24.45	23.63	22.41	25.00	24.00	23.00
		2595.0	24.30	23.58	22.36			
		2577.5	24.34	23.62	22.34			
	1RB-Middle (37)	2612.5	24.41	23.60	22.37			
		2595.0	24.29	23.54	22.27			
		2577.5	24.34	23.65	22.32			
	1RB-Low (0)	2612.5	24.40	23.60	22.34			
		2595.0	24.27	23.56	22.27			
		2577.5	24.24	23.48	22.21			
	36RB-High (38)	2612.5	23.50	22.49	21.53	24.00	23.00	22.00
		2595.0	23.51	22.51	21.52			
		2577.5	23.55	22.52	21.52			
	36RB-Middle (19)	2612.5	23.51	22.51	21.57			
		2595.0	23.50	22.44	21.53			
		2577.5	23.51	22.46	21.51			
	36RB-Low (0)	2612.5	23.54	22.50	21.58			
		2595.0	23.46	22.45	21.52			
		2577.5	23.52	22.47	21.52			
	75RB (0)	2612.5	23.51	22.53	21.54			
		2595.0	23.50	22.50	21.50			
		2577.5	23.53	22.51	21.53			
20MHz	1RB-High (99)	2610.0	24.43	23.66	22.36	25.00	24.00	23.00
		2595.0	24.32	23.59	22.35			
		2580.0	24.30	23.57	22.30			
	1RB-Middle (50)	2610.0	24.36	23.60	22.34			
		2595.0	24.27	23.55	22.28			
		2580.0	24.27	23.53	22.30			
	1RB-Low (0)	2610.0	24.40	23.57	22.33			
		2595.0	24.29	23.54	22.27			
		2580.0	24.26	23.52	22.25			
	50RB-High (50)	2610.0	23.55	22.57	21.55	24.00	23.00	22.00
		2595.0	23.56	22.55	21.54			
		2580.0	23.52	22.51	21.51			
	50RB-Middle (25)	2610.0	23.58	22.58	21.58			
		2595.0	23.56	22.57	21.58			
		2580.0	23.55	22.58	21.56			
	50RB-Low (0)	2610.0	23.60	22.56	21.58			
		2595.0	23.54	22.56	21.54			
		2580.0	23.59	22.57	21.55			
	100RB (0)	2610.0	23.54	22.52	21.55			
		2595.0	23.54	22.54	21.54			
		2580.0	23.53	22.54	21.55			



Ant.1 - LTE Band 38 Power Level DSI 2/1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2617.5	22.79	22.82	21.71	23.60	23.60	22.60
		2595.0	22.68	22.72	21.64			
		2572.5	22.57	22.63	21.55			
	1RB-Middle (12)	2617.5	22.79	22.80	21.72			
		2595.0	22.70	22.71	21.63			
		2572.5	22.63	22.60	21.52			
	1RB-Low (0)	2617.5	22.74	22.77	21.70			
		2595.0	22.65	22.70	21.59			
		2572.5	22.52	22.57	21.49			
	12RB-High (13)	2617.5	22.72	21.84	20.92	23.60	22.60	21.60
		2595.0	22.65	21.80	20.89			
		2572.5	22.57	21.72	20.79			
	12RB-Middle (6)	2617.5	22.74	21.92	20.96			
		2595.0	22.69	21.82	20.88			
		2572.5	22.57	21.75	20.72			
	12RB-Low (0)	2617.5	22.74	21.90	20.95			
		2595.0	22.69	21.83	20.88			
		2572.5	22.56	21.71	20.77			
	25RB (0)	2617.5	22.75	21.95	20.98			
		2595.0	22.71	21.93	20.91			
		2572.5	22.59	21.81	20.79			
10MHz	1RB-High (49)	2615.0	22.77	22.78	21.72	23.60	23.60	22.60
		2595.0	22.63	22.73	21.63			
		2575.0	22.61	22.68	21.62			
	1RB-Middle (24)	2615.0	22.75	22.82	21.69			
		2595.0	22.64	22.73	21.61			
		2575.0	22.57	22.64	21.50			
	1RB-Low (0)	2615.0	22.70	22.74	21.65			
		2595.0	22.66	22.69	21.65			
		2575.0	22.49	22.58	21.48			
	25RB-High (25)	2615.0	22.76	21.92	20.94	23.60	22.60	21.60
		2595.0	22.72	21.93	20.95			
		2575.0	22.71	21.88	20.89			
	25RB-Middle (12)	2615.0	22.77	21.96	20.99			
		2595.0	22.70	21.88	20.91			
		2575.0	22.64	21.84	20.84			
	25RB-Low (0)	2615.0	22.74	21.94	20.96			
		2595.0	22.71	21.90	20.93			
		2575.0	22.64	21.85	20.88			
	50RB (0)	2615.0	22.75	21.95	20.95			
		2595.0	22.71	21.88	20.85			
		2575.0	22.65	21.84	20.80			
15MHz	1RB-High (74)	2612.5	22.75	22.80	21.73	23.60	23.60	22.60
		2595.0	22.64	22.73	21.67			
		2577.5	22.63	22.69	21.65			
	1RB-Middle (37)	2612.5	22.71	22.80	21.65			
		2595.0	22.63	22.70	21.62			
		2577.5	22.59	22.67	21.61			
	1RB-Low (0)	2612.5	22.70	22.74	21.68			
		2595.0	22.57	22.68	21.56			
		2577.5	22.48	22.52	21.50			
	36RB-High (38)	2612.5	22.66	21.83	20.89	23.60	22.60	21.60
		2595.0	22.67	21.81	20.84			
		2577.5	22.64	21.79	20.77			
	36RB-Middle (19)	2612.5	22.65	21.82	20.89			
		2595.0	22.63	21.80	20.83			
		2577.5	22.60	21.79	20.79			
	36RB-Low (0)	2612.5	22.67	21.84	20.88			
		2595.0	22.65	21.79	20.86			
		2577.5	22.59	21.78	20.79			
	75RB (0)	2612.5	22.69	21.88	20.86			
		2595.0	22.66	21.84	20.82			
		2577.5	22.63	21.80	20.77			
20MHz	1RB-High (99)	2610.0	22.72	22.78	21.72	23.60	23.60	22.60
		2595.0	22.68	22.80	21.65			
		2580.0	22.61	22.74	21.56			
	1RB-Middle (50)	2610.0	22.69	22.77	21.62			
		2595.0	22.62	22.67	21.55			
		2580.0	22.57	22.65	21.53			
	1RB-Low (0)	2610.0	22.64	22.74	21.64			
		2595.0	22.59	22.67	21.59			
		2580.0	22.54	22.62	21.53			
	50RB-High (50)	2610.0	22.69	21.93	20.85	23.60	22.60	21.60
		2595.0	22.71	21.93	20.85			
		2580.0	22.64	21.83	20.80			
	50RB-Middle (25)	2610.0	22.73	21.92	20.88			
		2595.0	22.71	21.92	20.86			
		2580.0	22.71	21.88	20.86			
	50RB-Low (0)	2610.0	22.76	21.95	20.91			
		2595.0	22.74	21.93	20.89			
		2580.0	22.72	21.86	20.85			
	100RB (0)	2610.0	22.69	21.89	20.86			
		2595.0	22.68	21.85	20.85			
		2580.0	22.65	21.80	20.79			



Ant.1 - LTE Band 38 Power Level DSI 4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2617.5	18.39	18.31	18.02	19.10	19.10	19.10
		2595.0	18.09	18.19	17.97			
		2572.5	18.02	18.08	17.91			
	1RB-Middle (12)	2617.5	18.37	18.30	18.03			
		2595.0	18.14	18.18	17.95			
		2572.5	18.02	18.03	17.80			
	1RB-Low (0)	2617.5	18.35	18.23	18.02			
		2595.0	18.09	18.20	17.89			
		2572.5	17.94	17.98	17.78			
	12RB-High (13)	2617.5	18.28	18.23	18.24	19.10	19.10	19.10
		2595.0	18.18	18.13	18.16			
		2572.5	18.08	18.02	18.09			
	12RB-Middle (6)	2617.5	18.29	18.22	18.26			
		2595.0	18.17	18.09	18.18			
		2572.5	18.05	18.00	18.03			
	12RB-Low (0)	2617.5	18.23	18.22	18.28			
		2595.0	18.13	18.19	18.19			
		2572.5	18.03	18.02	18.07			
	25RB (0)	2617.5	18.31	18.33	18.33			
		2595.0	18.19	18.22	18.23			
		2572.5	18.09	18.06	18.13			
10MHz	1RB-High (49)	2615.0	18.37	18.27	18.06	19.10	19.10	19.10
		2595.0	18.08	18.21	17.98			
		2575.0	18.05	18.16	17.93			
	1RB-Middle (24)	2615.0	18.27	18.28	18.03			
		2595.0	18.06	18.16	17.96			
		2575.0	17.99	18.09	17.87			
	1RB-Low (0)	2615.0	18.31	18.26	18.05			
		2595.0	18.04	18.16	17.95			
		2575.0	17.92	17.99	17.78			
	25RB-High (25)	2615.0	18.29	18.25	18.27	19.10	19.10	19.10
		2595.0	18.23	18.21	18.20			
		2575.0	18.15	18.14	18.19			
	25RB-Middle (12)	2615.0	18.31	18.26	18.28			
		2595.0	18.19	18.20	18.26			
		2575.0	18.16	18.17	18.19			
	25RB-Low (0)	2615.0	18.29	18.26	18.29			
		2595.0	18.21	18.17	18.25			
		2575.0	18.11	18.14	18.17			
	50RB (0)	2615.0	18.34	18.29	18.30			
		2595.0	18.15	18.19	18.19			
		2575.0	18.12	18.13	18.11			
15MHz	1RB-High (74)	2612.5	18.35	18.30	18.04	19.10	19.10	19.10
		2595.0	18.06	18.24	18.02			
		2577.5	18.04	18.22	17.96			
	1RB-Middle (37)	2612.5	18.29	18.27	18.04			
		2595.0	18.01	18.17	17.95			
		2577.5	18.07	18.13	17.92			
	1RB-Low (0)	2612.5	18.25	18.26	18.01			
		2595.0	18.03	18.14	17.90			
		2577.5	17.92	18.02	17.80			
	36RB-High (38)	2612.5	18.20	18.18	18.22	19.10	19.10	19.10
		2595.0	18.18	18.13	18.18			
		2577.5	18.11	18.06	18.10			
	36RB-Middle (19)	2612.5	18.24	18.18	18.24			
		2595.0	18.14	18.12	18.13			
		2577.5	18.08	18.07	18.11			
	36RB-Low (0)	2612.5	18.17	18.19	18.20			
		2595.0	18.13	18.13	18.14			
		2577.5	18.07	18.05	18.11			
	75RB (0)	2612.5	18.23	18.20	18.23			
		2595.0	18.16	18.19	18.14			
		2577.5	18.15	18.13	18.08			
20MHz	1RB-High (99)	2610.0	18.16	18.32	18.09	19.10	19.10	19.10
		2595.0	18.13	18.28	18.00			
		2580.0	18.04	18.21	17.92			
	1RB-Middle (50)	2610.0	18.11	18.27	17.99			
		2595.0	18.06	18.20	17.94			
		2580.0	17.97	18.12	17.88			
	1RB-Low (0)	2610.0	18.09	18.24	17.97			
		2595.0	18.00	18.17	17.91			
		2580.0	17.91	18.03	17.84			
	50RB-High (50)	2610.0	18.25	18.25	18.24	19.10	19.10	19.10
		2595.0	18.20	18.21	18.18			
		2580.0	18.13	18.10	18.10			
	50RB-Middle (25)	2610.0	18.22	18.25	18.26			
		2595.0	18.19	18.28	18.22			
		2580.0	18.13	18.17	18.21			
	50RB-Low (0)	2610.0	18.31	18.26	18.28			
		2595.0	18.23	18.26	18.22			
		2580.0	18.14	18.17	18.18			
	100RB (0)	2610.0	18.23	18.27	18.25			
		2595.0	18.19	18.21	18.20			
		2580.0	18.14	18.18	18.14			



Ant.4 - LTE Band 38 Power Level DSI 2

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2617.5	20.09	20.13	19.90	20.80	20.80	20.80
		2595.0	20.00	20.05	19.80			
		2572.5	19.90	19.93	19.70			
	1RB-Middle (12)	2617.5	20.10	20.16	19.92			
		2595.0	20.02	20.03	19.79			
		2572.5	19.89	19.90	19.69			
	1RB-Low (0)	2617.5	20.12	20.11	19.90			
		2595.0	19.95	19.99	19.77			
		2572.5	19.79	19.81	19.61			
	12RB-High (13)	2617.5	20.06	20.03	20.09	20.80	20.80	20.80
		2595.0	19.97	19.94	20.00			
		2572.5	19.83	19.85	19.94			
	12RB-Middle (6)	2617.5	20.10	20.07	20.10			
		2595.0	19.98	19.97	20.02			
		2572.5	19.85	19.84	19.91			
	12RB-Low (0)	2617.5	20.08	20.07	20.10			
		2595.0	19.87	19.97	20.04			
		2572.5	19.85	19.84	19.90			
	25RB (0)	2617.5	20.12	20.09	20.16			
		2595.0	20.01	19.99	20.05			
		2572.5	19.91	19.93	19.99			
10MHz	1RB-High (49)	2615.0	20.05	20.13	19.90	20.80	20.80	20.80
		2595.0	20.01	20.06	19.81			
		2575.0	19.89	19.99	19.75			
	1RB-Middle (24)	2615.0	20.06	20.12	19.88			
		2595.0	19.94	20.02	19.79			
		2575.0	19.87	19.96	19.72			
	1RB-Low (0)	2615.0	20.04	20.13	19.89			
		2595.0	19.93	20.04	19.74			
		2575.0	19.78	19.84	19.61			
	25RB-High (25)	2615.0	20.11	20.08	20.14	20.80	20.80	20.80
		2595.0	20.02	20.03	20.06			
		2575.0	19.98	19.98	20.06			
	25RB-Middle (12)	2615.0	20.08	20.11	20.16			
		2595.0	20.04	20.04	20.05			
		2575.0	19.97	19.98	20.03			
	25RB-Low (0)	2615.0	20.06	20.09	20.12			
		2595.0	20.05	20.06	20.08			
		2575.0	19.87	19.96	19.99			
	50RB (0)	2615.0	20.08	20.10	20.11			
		2595.0	20.01	20.03	20.02			
		2575.0	19.95	19.97	19.95			
15MHz	1RB-High (74)	2612.5	20.05	20.13	19.95	20.80	20.80	20.80
		2595.0	20.00	20.06	19.84			
		2577.5	19.94	20.04	19.83			
	1RB-Middle (37)	2612.5	20.04	20.11	19.89			
		2595.0	19.92	20.00	19.79			
		2577.5	19.91	19.98	19.79			
	1RB-Low (0)	2612.5	20.03	20.09	19.84			
		2595.0	19.92	19.97	19.75			
		2577.5	19.76	19.88	19.64			
	36RB-High (38)	2612.5	20.05	19.99	20.05	20.80	20.80	20.80
		2595.0	20.00	19.95	20.01			
		2577.5	19.91	19.89	19.98			
	36RB-Middle (19)	2612.5	20.00	19.98	20.04			
		2595.0	19.93	19.94	20.01			
		2577.5	19.95	19.88	19.96			
	36RB-Low (0)	2612.5	20.00	19.96	20.04			
		2595.0	19.96	19.91	19.98			
		2577.5	19.82	19.85	19.95			
	75RB (0)	2612.5	20.04	20.04	20.06			
		2595.0	19.97	20.01	19.99			
		2577.5	19.96	19.91	19.97			
20MHz	1RB-High (99)	2610.0	20.10	20.14	19.90	20.80	20.80	20.80
		2595.0	19.99	20.06	19.85			
		2580.0	19.90	20.01	19.79			
	1RB-Middle (50)	2610.0	20.05	20.07	19.84			
		2595.0	19.93	20.00	19.78			
		2580.0	19.85	19.94	19.74			
	1RB-Low (0)	2610.0	20.04	20.06	19.86			
		2595.0	19.90	19.95	19.74			
		2580.0	19.81	19.89	19.66			
	50RB-High (50)	2610.0	20.07	20.07	20.08	20.80	20.80	20.80
		2595.0	19.95	20.05	20.03			
		2580.0	19.94	19.96	19.96			
	50RB-Middle (25)	2610.0	20.06	20.04	20.08			
		2595.0	19.90	19.99	20.04			
		2580.0	19.99	20.00	20.00			
	50RB-Low (0)	2610.0	20.08	20.05	20.09			
		2595.0	19.99	20.06	20.02			
		2580.0	20.01	19.99	20.01			
	100RB (0)	2610.0	20.05	20.05	20.08			
		2595.0	20.01	20.04	20.02			
		2580.0	19.93	19.96	19.99			



Ant.4 - LTE Band 38 Power Level DSI 4

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2617.5	18.64	18.57	18.29	19.30	19.30	19.30
		2595.0	18.34	18.46	18.13			
		2572.5	18.25	18.35	18.06			
	1RB-Middle (12)	2617.5	18.63	18.55	18.28			
		2595.0	18.42	18.45	18.15			
		2572.5	18.31	18.30	18.03			
	1RB-Low (0)	2617.5	18.58	18.56	18.26			
		2595.0	18.33	18.40	18.14			
		2572.5	18.14	18.32	18.00			
	12RB-High (13)	2617.5	18.53	18.52	18.47	19.30	19.30	19.30
		2595.0	18.41	18.38	18.37			
		2572.5	18.33	18.30	18.26			
	12RB-Middle (6)	2617.5	18.53	18.53	18.47			
		2595.0	18.42	18.40	18.37			
		2572.5	18.30	18.28	18.25			
	12RB-Low (0)	2617.5	18.53	18.51	18.48			
		2595.0	18.43	18.38	18.37			
		2572.5	18.28	18.26	18.26			
	25RB (0)	2617.5	18.57	18.59	18.50			
		2595.0	18.47	18.45	18.42			
		2572.5	18.35	18.37	18.30			
10MHz	1RB-High (49)	2615.0	18.56	18.58	18.23	19.30	19.30	19.30
		2595.0	18.37	18.49	18.15			
		2575.0	18.28	18.39	18.12			
	1RB-Middle (24)	2615.0	18.59	18.55	18.24			
		2595.0	18.31	18.45	18.10			
		2575.0	18.27	18.40	18.05			
	1RB-Low (0)	2615.0	18.54	18.53	18.20			
		2595.0	18.31	18.45	18.18			
		2575.0	18.14	18.28	17.95			
	25RB-High (25)	2615.0	18.51	18.51	18.47	19.30	19.30	19.30
		2595.0	18.46	18.48	18.43			
		2575.0	18.42	18.40	18.38			
	25RB-Middle (12)	2615.0	18.53	18.57	18.51			
		2595.0	18.48	18.46	18.41			
		2575.0	18.40	18.38	18.36			
	25RB-Low (0)	2615.0	18.52	18.53	18.48			
		2595.0	18.42	18.46	18.42			
		2575.0	18.39	18.41	18.34			
	50RB (0)	2615.0	18.55	18.56	18.47			
		2595.0	18.47	18.45	18.38			
		2575.0	18.39	18.41	18.29			
15MHz	1RB-High (74)	2612.5	18.57	18.59	18.24	19.30	19.30	19.30
		2595.0	18.40	18.50	18.17			
		2577.5	18.32	18.41	18.10			
	1RB-Middle (37)	2612.5	18.53	18.54	18.22			
		2595.0	18.31	18.44	18.10			
		2577.5	18.31	18.41	18.07			
	1RB-Low (0)	2612.5	18.54	18.51	18.20			
		2595.0	18.25	18.42	18.08			
		2577.5	18.16	18.27	18.01			
	36RB-High (38)	2612.5	18.44	18.43	18.40	19.30	19.30	19.30
		2595.0	18.40	18.39	18.34			
		2577.5	18.39	18.32	18.30			
	36RB-Middle (19)	2612.5	18.45	18.39	18.38			
		2595.0	18.40	18.36	18.31			
		2577.5	18.36	18.33	18.32			
	36RB-Low (0)	2612.5	18.42	18.44	18.39			
		2595.0	18.38	18.37	18.32			
		2577.5	18.34	18.27	18.31			
	75RB (0)	2612.5	18.46	18.49	18.38			
		2595.0	18.43	18.40	18.32			
		2577.5	18.37	18.38	18.29			
20MHz	1RB-High (99)	2610.0	18.53	18.57	18.24	19.30	19.30	19.30
		2595.0	18.39	18.51	18.23			
		2580.0	18.29	18.41	18.09			
	1RB-Middle (50)	2610.0	18.38	18.51	18.22			
		2595.0	18.30	18.44	18.13			
		2580.0	18.25	18.36	18.05			
	1RB-Low (0)	2610.0	18.39	18.47	18.17			
		2595.0	18.25	18.38	18.08			
		2580.0	18.19	18.34	18.01			
	50RB-High (50)	2610.0	18.50	18.49	18.44	19.30	19.30	19.30
		2595.0	18.45	18.47	18.38			
		2580.0	18.34	18.38	18.31			
	50RB-Middle (25)	2610.0	18.52	18.53	18.47			
		2595.0	18.45	18.47	18.36			
		2580.0	18.42	18.47	18.35			
	50RB-Low (0)	2610.0	18.53	18.52	18.46			
		2595.0	18.46	18.44	18.39			
		2580.0	18.42	18.45	18.33			
	100RB (0)	2610.0	18.45	18.49	18.41			
		2595.0	18.43	18.42	18.38			
		2580.0	18.35	18.39	18.31			



Ant.4 - LTE Band 38 Power Level DSI 1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2617.5	23.32	23.31	22.04	24.05	23.80	22.80
		2595.0	23.21	23.23	21.96			
		2572.5	23.14	23.11	21.86			
	1RB-Middle (12)	2617.5	23.35	23.31	22.00			
		2595.0	23.24	23.20	21.96			
		2572.5	23.11	23.06	21.80			
	1RB-Low (0)	2617.5	23.34	23.30	22.06			
		2595.0	23.21	23.14	21.94			
		2572.5	23.05	23.00	21.77			
	12RB-High (13)	2617.5	23.24	22.17	21.24	23.80	22.80	21.80
		2595.0	23.15	22.12	21.16			
		2572.5	23.06	22.03	21.07			
	12RB-Middle (6)	2617.5	23.26	22.24	21.30			
		2595.0	23.17	22.10	21.17			
		2572.5	23.04	22.01	21.04			
	12RB-Low (0)	2617.5	23.24	22.19	21.27			
		2595.0	23.16	22.13	21.18			
		2572.5	23.06	22.00	21.03			
	25RB (0)	2617.5	23.25	22.26	21.27			
		2595.0	23.17	22.21	21.21			
		2572.5	23.08	22.07	21.07			
10MHz	1RB-High (49)	2615.0	23.32	23.30	22.03	24.05	23.80	22.80
		2595.0	23.22	23.22	21.93			
		2575.0	23.16	23.14	21.81			
	1RB-Middle (24)	2615.0	23.33	23.28	22.06			
		2595.0	23.19	23.18	21.92			
		2575.0	23.12	23.19	21.86			
	1RB-Low (0)	2615.0	23.29	23.25	22.00			
		2595.0	23.19	23.20	21.93			
		2575.0	23.04	23.04	21.78			
	25RB-High (25)	2615.0	23.24	22.23	21.29	23.80	22.80	21.80
		2595.0	23.17	22.19	21.24			
		2575.0	23.16	22.15	21.20			
	25RB-Middle (12)	2615.0	23.26	22.24	21.29			
		2595.0	23.18	22.20	21.21			
		2575.0	23.11	22.13	21.14			
	25RB-Low (0)	2615.0	23.24	22.23	21.30			
		2595.0	23.20	22.17	21.22			
		2575.0	23.13	22.15	21.14			
	50RB (0)	2615.0	23.24	22.27	21.25			
		2595.0	23.19	22.21	21.16			
		2575.0	23.13	22.13	21.09			
15MHz	1RB-High (74)	2612.5	23.26	23.30	22.05	24.05	23.80	22.80
		2595.0	23.26	23.25	21.95			
		2577.5	23.20	23.17	21.91			
	1RB-Middle (37)	2612.5	23.31	23.28	22.01			
		2595.0	23.16	23.20	21.93			
		2577.5	23.19	23.17	21.93			
	1RB-Low (0)	2612.5	23.24	23.28	21.99			
		2595.0	23.15	23.16	21.86			
		2577.5	23.04	23.02	21.78			
	36RB-High (38)	2612.5	23.19	22.11	21.21	23.80	22.80	21.80
		2595.0	23.18	22.11	21.14			
		2577.5	23.08	22.07	21.08			
	36RB-Middle (19)	2612.5	23.15	22.14	21.16			
		2595.0	23.13	22.13	21.15			
		2577.5	23.10	22.08	21.12			
	36RB-Low (0)	2612.5	23.16	22.16	21.20			
		2595.0	23.16	22.10	21.16			
		2577.5	23.05	22.07	21.10			
	75RB (0)	2612.5	23.19	22.19	21.18			
		2595.0	23.15	22.15	21.15			
		2577.5	23.11	22.10	21.10			
20MHz	1RB-High (99)	2610.0	23.25	23.31	22.03	24.05	23.80	22.80
		2595.0	23.24	23.27	21.99			
		2580.0	23.18	23.16	21.90			
	1RB-Middle (50)	2610.0	23.24	23.23	22.01			
		2595.0	23.19	23.16	21.92			
		2580.0	23.08	23.12	21.85			
	1RB-Low (0)	2610.0	23.22	23.26	21.99			
		2595.0	23.12	23.10	21.90			
		2580.0	23.07	23.08	21.79			
	50RB-High (50)	2610.0	23.20	22.22	21.25	23.80	22.80	21.80
		2595.0	23.21	22.19	21.23			
		2580.0	23.10	22.13	21.08			
	50RB-Middle (25)	2610.0	23.21	22.20	21.23			
		2595.0	23.19	22.16	21.19			
		2580.0	23.18	22.17	21.12			
	50RB-Low (0)	2610.0	23.22	22.22	21.24			
		2595.0	23.19	22.20	21.18			
		2580.0	23.18	22.14	21.14			
	100RB (0)	2610.0	23.17	22.18	21.22			
		2595.0	23.16	22.18	21.17			
		2580.0	23.10	22.13	21.08			



Ant.5 - LTE Band 38 Power Level DSI 2/4/1/3

Bandwidth	Number of RBs	Frequency	QPSK	16QAM	64QAM	QPSK Tune-up	16QAM Tune-up	64QAM Tune-up
5MHz	1RB-High (24)	2617.5	21.52	21.64	21.33	22.00	22.00	22.00
		2595.0	21.45	21.54	21.25			
		2572.5	21.36	21.42	21.14			
	1RB-Middle (12)	2617.5	21.61	21.61	21.32			
		2595.0	21.53	21.49	21.24			
		2572.5	21.43	21.40	21.12			
	1RB-Low (0)	2617.5	21.56	21.60	21.35			
		2595.0	21.46	21.50	21.21			
		2572.5	21.29	21.33	21.07			
	12RB-High (13)	2617.5	21.53	21.50	21.56	22.00	22.00	22.00
		2595.0	21.43	21.40	21.46			
		2572.5	21.34	21.32	21.36			
	12RB-Middle (6)	2617.5	21.56	21.54	21.55			
		2595.0	21.46	21.45	21.46			
		2572.5	21.34	21.35	21.33			
	12RB-Low (0)	2617.5	21.52	21.52	21.56			
		2595.0	21.45	21.44	21.47			
		2572.5	21.33	21.31	21.35			
	25RB (0)	2617.5	21.57	21.56	21.60			
		2595.0	21.51	21.50	21.50			
		2572.5	21.40	21.39	21.40			
10MHz	1RB-High (49)	2615.0	21.57	21.56	21.30	22.00	22.00	22.00
		2595.0	21.45	21.54	21.27			
		2575.0	21.39	21.45	21.15			
	1RB-Middle (24)	2615.0	21.55	21.59	21.30			
		2595.0	21.43	21.49	21.22			
		2575.0	21.34	21.44	21.16			
	1RB-Low (0)	2615.0	21.52	21.55	21.33			
		2595.0	21.39	21.50	21.22			
		2575.0	21.29	21.34	21.07			
	25RB-High (25)	2615.0	21.53	21.53	21.58	22.00	22.00	22.00
		2595.0	21.47	21.52	21.54			
		2575.0	21.46	21.43	21.51			
	25RB-Middle (12)	2615.0	21.56	21.54	21.59			
		2595.0	21.50	21.47	21.52			
		2575.0	21.44	21.43	21.44			
	25RB-Low (0)	2615.0	21.53	21.55	21.57			
		2595.0	21.50	21.51	21.55			
		2575.0	21.42	21.43	21.44			
	50RB (0)	2615.0	21.53	21.54	21.55			
		2595.0	21.48	21.45	21.49			
		2575.0	21.42	21.42	21.41			
15MHz	1RB-High (74)	2612.5	21.51	21.59	21.35	22.00	22.00	22.00
		2595.0	21.44	21.54	21.26			
		2577.5	21.39	21.49	21.23			
	1RB-Middle (37)	2612.5	21.48	21.56	21.28			
		2595.0	21.40	21.48	21.23			
		2577.5	21.37	21.43	21.20			
	1RB-Low (0)	2612.5	21.46	21.55	21.29			
		2595.0	21.32	21.43	21.15			
		2577.5	21.24	21.29	21.06			
	36RB-High (38)	2612.5	21.44	21.43	21.46	22.00	22.00	22.00
		2595.0	21.42	21.41	21.44			
		2577.5	21.40	21.39	21.44			
	36RB-Middle (19)	2612.5	21.42	21.43	21.48			
		2595.0	21.38	21.39	21.41			
		2577.5	21.36	21.35	21.40			
	36RB-Low (0)	2612.5	21.48	21.45	21.50			
		2595.0	21.42	21.37	21.45			
		2577.5	21.33	21.34	21.40			
	75RB (0)	2612.5	21.44	21.47	21.47			
		2595.0	21.42	21.44	21.42			
		2577.5	21.37	21.38	21.40			
20MHz	1RB-High (99)	2610.0	21.50	21.58	21.34	22.00	22.00	22.00
		2595.0	21.48	21.54	21.31			
		2580.0	21.36	21.45	21.22			
	1RB-Middle (50)	2610.0	21.47	21.56	21.28			
		2595.0	21.39	21.47	21.20			
		2580.0	21.34	21.42	21.16			
	1RB-Low (0)	2610.0	21.44	21.49	21.25			
		2595.0	21.33	21.40	21.20			
		2580.0	21.32	21.36	21.13			
	50RB-High (50)	2610.0	21.48	21.51	21.51	22.00	22.00	22.00
		2595.0	21.46	21.48	21.48			
		2580.0	21.40	21.39	21.40			
	50RB-Middle (25)	2610.0	21.51	21.52	21.53			
		2595.0	21.46	21.53	21.49			
		2580.0	21.48	21.45	21.45			
	50RB-Low (0)	2610.0	21.52	21.55	21.56			
		2595.0	21.47	21.45	21.51			
		2580.0	21.44	21.44	21.44			
	100RB (0)	2610.0	21.46	21.46	21.51			
		2595.0	21.43	21.46	21.47			
		2580.0	21.42	21.39	21.40			



No. 25T04N000127-011-SAR

The device supports Inter-band and Intra-band uplink LTE Carrier Aggregation. The conducted power measurement results of Intra-band uplink CA are provided as follow.

Configure	Antenna	Power Level	CA List	PCC							SCC							Power	
				LTE	BW	UL	Mod.	UL#	UL	RB	LTE	BW	UL	Mod.	UL#	UL	RB	With CA	Without CA
				Band	(MHz)	Freq. (MHz)		RB	Offset		Band	(MHz)	Freq. (MHz)		RB	Offset		Tx. Power (dBm)	Tx. Power (dBm)
Intra-Band	Contiguous		Ant.0	DSI 2	CA_7C	Band 7	20M	2560.0	QPSK	1	99	Band 7	20M	2540.2	QPSK	1	0	23.49	23.64
				DSI 1	CA_7C	Band 7	20M	2560.0	QPSK	1	99	Band 7	20M	2540.2	QPSK	1	0	22.55	22.62
			Ant.1	DSI 2	CA_7C	Band 7	20M	2560.0	QPSK	1	99	Band 7	20M	2540.2	QPSK	1	0	21.40	21.46
				DSI 1	CA_7C	Band 7	20M	2560.0	QPSK	1	99	Band 7	20M	2540.2	QPSK	1	0	20.14	20.21
			Ant.4	DSI 2	CA_7C	Band 7	20M	2560.0	QPSK	1	99	Band 7	20M	2540.2	QPSK	1	0	19.12	19.21
				DSI 1	CA_7C	Band 7	20M	2560.0	QPSK	1	99	Band 7	20M	2540.2	QPSK	1	0	21.33	21.46
			Ant.5	DSI 2	CA_7C	Band 7	20M	2560.0	QPSK	1	99	Band 7	20M	2540.2	QPSK	1	0	20.60	20.68
				DSI 1	CA_7C	Band 7	20M	2560.0	QPSK	1	99	Band 7	20M	2540.2	QPSK	1	0	19.64	19.75
			Ant.0	DSI 2	CA38C	Band 38	20M	2610.0	QPSK	1	99	Band 38	20M	2590.2	QPSK	1	0	23.40	24.43
				DSI 1	CA38C	Band 38	20M	2610.0	QPSK	1	99	Band 38	20M	2590.2	QPSK	1	0	23.40	24.43
			Ant.1	DSI 2	CA38C	Band 38	20M	2610.0	QPSK	1	99	Band 38	20M	2590.2	QPSK	1	0	21.75	22.72
				DSI 1	CA38C	Band 38	20M	2610.0	QPSK	1	99	Band 38	20M	2590.2	QPSK	1	0	21.75	22.72
			Ant.4	DSI 2	CA38C	Band 38	20M	2610.0	QPSK	1	99	Band 38	20M	2590.2	QPSK	1	0	19.33	20.10
				DSI 1	CA38C	Band 38	20M	2610.0	QPSK	1	99	Band 38	20M	2590.2	QPSK	1	0	22.51	23.25
			Ant.5	DSI 2	CA38C	Band 38	20M	2610.0	QPSK	1	99	Band 38	20M	2590.2	QPSK	1	0	20.42	21.50
				DSI 1	CA38C	Band 38	20M	2610.0	QPSK	1	99	Band 38	20M	2590.2	QPSK	1	0	20.42	21.50
			Ant.0	DSI 2	CA_41C	Band 41 PC3	20M	2680.0	QPSK	1	0	Band 41 PC3	20M	2660.2	QPSK	1	99	23.48	23.57
				DSI 1	CA_41C	Band 41 PC3	20M	2680.0	QPSK	1	0	Band 41 PC3	20M	2660.2	QPSK	1	99	23.48	23.57
			Ant.1	DSI 2	CA_41C	Band 41 PC3	20M	2680.0	QPSK	1	99	Band 41 PC3	20M	2660.2	QPSK	1	0	20.91	20.97
				DSI 1	CA_41C	Band 41 PC3	20M	2680.0	QPSK	1	99	Band 41 PC3	20M	2660.2	QPSK	1	0	22.55	22.64
			Ant.4	DSI 2	CA_41C	Band 41 PC3	20M	2680.0	QPSK	1	99	Band 41 PC3	20M	2660.2	QPSK	1	0	18.42	18.49
				DSI 1	CA_41C	Band 41 PC3	20M	2680.0	QPSK	1	99	Band 41 PC3	20M	2660.2	QPSK	1	0	20.58	20.64
			Ant.5	DSI 2	CA_41C	Band 41 PC3	20M	2680.0	QPSK	1	99	Band 41 PC3	20M	2660.2	QPSK	1	0	19.80	20.28
				DSI 1	CA_41C	Band 41 PC3	20M	2680.0	QPSK	1	99	Band 41 PC3	20M	2660.2	QPSK	1	0	19.32	19.79



11.4. NR Measurement result

Maximum power reduction (MPR) for power class 3

Modulation		MPR (dB)		
		Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM	QPSK	≤ 1		0
	16 QAM	≤ 2		≤ 1
	64 QAM	≤ 2.5		
	256 QAM	≤ 4.5		
CP-OFDM	QPSK	≤ 3		≤ 1.5
	16 QAM	≤ 3		≤ 2
	64 QAM	≤ 3.5		
	256 QAM	≤ 6.5		

Note: For this device, NR n41 support PC3 and PC2 mode with 100% duty cycle, so we choose high power PC2 mode to measure conducted power and SAR testing.

Table 11.4: The conducted Power measurement results for NR
Ant.0 - NR n2 Power Level DSI 2/4 (Tune up: 24.00)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	22.80
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	22.87
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	22.82
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	22.88
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	22.93
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	22.89
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	22.32
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	20.91
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.95
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	21.85
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	21.29
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.75
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.76
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	22.25
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	22.32
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	22.86
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	22.85
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	22.33
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	22.84
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	22.89

Ant.0 - NR n2 Power Level DSI 1/3 (Tune up: 20.50)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	19.33
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	19.30
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	19.30
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	19.37
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	19.45
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	19.41
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	19.39
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.40
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.96
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	19.44
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	19.36
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.43
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.72
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	19.38
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	19.35
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	19.30
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	19.44
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	19.38
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	19.38
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	19.39

Ant.4 - NR n2 Power Level DSI 2 (Tune up: 16.50)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	15.70
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	15.67
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	15.71
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	15.71
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	15.79
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	15.78
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	15.75
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	15.78
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	15.69
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	15.66
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	15.68
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	15.65
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	15.68
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	15.67
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	15.64
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	15.67
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	15.76
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	15.76
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	15.72
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	15.74

Ant.4 - NR n2 Power Level DSI 4 (Tune up: 15.50)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	14.68
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	14.76
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	14.68
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	14.73
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	14.80
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	14.74
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	14.68
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	14.68
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	14.79
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	14.65
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	14.68
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	14.69
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	14.68
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	14.78
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	14.74
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	14.76
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	14.79
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	14.78
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	14.73
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	14.68

Ant.4 - NR n2 Power Level DSI 4 (Tune up: 21.50)

NR n2							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1907.5	381500	20.75
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1880.0	376000	20.72
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1852.5	370500	20.66
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1900.0	380000	20.70
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1880.0	376000	20.80
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1860.0	372000	20.76
15	50	DFT-s-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	20.79
15	50	DFT-s-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	20.66
15	50	DFT-s-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	18.72
15	50	CP-OFDM QPSK	Inner_Full	50@25	1880.0	376000	20.74
15	50	CP-OFDM 16QAM	Inner_Full	50@25	1880.0	376000	20.69
15	50	CP-OFDM 64QAM	Inner_Full	50@25	1880.0	376000	19.49
15	50	CP-OFDM 256QAM	Inner_Full	50@25	1880.0	376000	16.60
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	1880.0	376000	20.76
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1880.0	376000	20.78
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	1880.0	376000	20.67
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1880.0	376000	20.69
15	50	DFT-s-OFDM QPSK	Outer_Full	100@0	1880.0	376000	20.79
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1880.0	376000	20.72
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1880.0	376000	20.69

Ant.0 - NR n5 Power Level DSI 2/4/1/3 (Tune up: 25.00)

NR n5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	23.87
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	23.89
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	23.84
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839.0	167800	23.93
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	23.98
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834.0	166800	23.92
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	836.5	167300	22.90
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	836.5	167300	21.38
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	836.5	167300	19.41
15	20	CP-OFDM QPSK	Inner_Full	50@25	836.5	167300	22.35
15	20	CP-OFDM 16QAM	Inner_Full	50@25	836.5	167300	21.78
15	20	CP-OFDM 64QAM	Inner_Full	50@25	836.5	167300	20.28
15	20	CP-OFDM 256QAM	Inner_Full	50@25	836.5	167300	17.27
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	836.5	167300	22.83
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	22.95
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	836.5	167300	23.86
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	23.91
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	836.5	167300	22.94
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	836.5	167300	23.86
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	836.5	167300	23.93

Ant.1 - NR n5 Power Level DSI 2 (Tune up: 21.00)

NR n5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	19.75
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	19.84
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	19.83
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839.0	167800	19.80
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	19.88
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834.0	166800	19.82
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	836.5	167300	19.77
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	836.5	167300	19.73
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	836.5	167300	19.24
15	20	CP-OFDM QPSK	Inner_Full	50@25	836.5	167300	19.74
15	20	CP-OFDM 16QAM	Inner_Full	50@25	836.5	167300	19.83
15	20	CP-OFDM 64QAM	Inner_Full	50@25	836.5	167300	19.74
15	20	CP-OFDM 256QAM	Inner_Full	50@25	836.5	167300	17.25
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	836.5	167300	19.85
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	19.84
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	836.5	167300	19.87
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	19.75
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	836.5	167300	19.81
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	836.5	167300	19.76
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	836.5	167300	19.87

Ant.1 - NR n5 Power Level DSI 4 (Tune up: 19.50)

NR n5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	18.25
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	18.24
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	18.33
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839.0	167800	18.31
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	18.36
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834.0	166800	18.32
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	836.5	167300	18.28
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	836.5	167300	18.25
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	836.5	167300	18.33
15	20	CP-OFDM QPSK	Inner_Full	50@25	836.5	167300	18.25
15	20	CP-OFDM 16QAM	Inner_Full	50@25	836.5	167300	18.22
15	20	CP-OFDM 64QAM	Inner_Full	50@25	836.5	167300	18.23
15	20	CP-OFDM 256QAM	Inner_Full	50@25	836.5	167300	17.15
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	836.5	167300	18.24
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	18.22
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	836.5	167300	18.22
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	18.26
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	836.5	167300	18.33
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	836.5	167300	18.24
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	836.5	167300	18.26

**Ant.1 - NR n5 Power Level DSI 1/3 (Tune up: 23.30)**

NR n5							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	846.5	169300	22.03
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	836.5	167300	22.05
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	826.5	165300	22.12
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	839.0	167800	22.09
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	836.5	167300	22.17
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	834.0	166800	22.10
15	20	DFT-s-OFDM 16QAM	Inner_Full	50@25	836.5	167300	22.15
15	20	DFT-s-OFDM 64QAM	Inner_Full	50@25	836.5	167300	21.32
15	20	DFT-s-OFDM 256QAM	Inner_Full	50@25	836.5	167300	19.31
15	20	CP-OFDM QPSK	Inner_Full	50@25	836.5	167300	22.04
15	20	CP-OFDM 16QAM	Inner_Full	50@25	836.5	167300	21.72
15	20	CP-OFDM 64QAM	Inner_Full	50@25	836.5	167300	20.19
15	20	CP-OFDM 256QAM	Inner_Full	50@25	836.5	167300	17.22
15	20	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	836.5	167300	22.05
15	20	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	836.5	167300	22.11
15	20	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	836.5	167300	22.15
15	20	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	836.5	167300	22.08
15	20	DFT-s-OFDM QPSK	Outer_Full	100@0	836.5	167300	22.09
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	836.5	167300	22.14
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	836.5	167300	22.14

Ant.0 - NR n7 Power Level DSI 2/4/1/3 (Tune up: 24.00)

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	23.24
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	23.28
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	23.30
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	23.33
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	23.34
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	23.28
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	22.40
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	20.92
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	18.95
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	21.89
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	21.36
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	19.85
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	16.86
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	22.38
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	22.31
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	23.13
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	23.18
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	22.38
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	23.32
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	23.22
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	23.33
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	23.28
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	23.19
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	23.26

**Ant.1 - NR n7 Power Level DSI 2 (Tune up: 21.70)**

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	21.48
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	21.34
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	21.38
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	21.45
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	21.49
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	21.44
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	21.45
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	20.11
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	18.10
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	20.92
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	20.50
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	18.93
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	16.02
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	21.36
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	21.37
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	21.35
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	21.44
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	21.41
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	21.35
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	21.43
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	21.40
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	21.34
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	21.41
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	21.41

Ant.1 - NR n7 Power Level DSI 4 (Tune up: 17.70)

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	17.41
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	17.37
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	17.43
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	17.46
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	17.48
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	17.42
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	17.42
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	17.47
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	17.47
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	17.46
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	17.38
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	17.45
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	16.05
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	17.36
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	17.37
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	17.46
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	17.46
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	17.33
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	17.43
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	17.44
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	17.47
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	17.40
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	17.45
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	17.33

**Ant.1 - NR n7 Power Level DSI 1/3 (Tune up: 22.70)**

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	22.42
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	22.38
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	22.41
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	22.48
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	22.51
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	22.43
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	21.55
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	20.02
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	18.08
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	20.98
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	20.51
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	19.02
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	16.01
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	21.54
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	21.41
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	22.37
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	22.26
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	21.51
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	22.49
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	22.36
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	22.41
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	22.46
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	22.48
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	22.38

Ant.4 - NR n7 Power Level DSI 2 (Tune up: 18.50)

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	17.76
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	17.84
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	17.79
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	17.81
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	17.88
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	17.80
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	17.73
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	17.87
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	17.80
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	17.83
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	17.74
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	17.79
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	16.88
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	17.84
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	17.74
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	17.84
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	17.81
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	17.81
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	17.76
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	17.79
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	17.73
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	17.77
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	17.79
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	17.79

**Ant.4 - NR n7 Power Level DSI 4 (Tune up: 17.00)**

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	16.36
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	16.26
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	16.22
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	16.33
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	16.37
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	16.31
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	16.32
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	16.36
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	16.34
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	16.33
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	16.25
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	16.26
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	16.23
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	16.27
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	16.25
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	16.36
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	16.31
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	16.23
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	16.31
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	16.26
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	16.31
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	16.25
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	16.31
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	16.31

Ant.4 - NR n7 Power Level DSI 1/3 (Tune up: 22.80)

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	22.17
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	22.12
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	22.14
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	22.13
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	22.19
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	22.12
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	22.16
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	20.88
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	18.83
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	21.79
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	21.32
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	19.85
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	16.76
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	22.04
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	22.16
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	22.05
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	22.06
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	22.07
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	22.14
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	22.07
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	22.18
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	22.15
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	22.04
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	22.06

**Ant.5 - NR n7 Power Level DSI 2 (Tune up: 21.50)**

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	21.05
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	20.99
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	20.97
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	21.05
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	21.10
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	21.03
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	20.96
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	20.98
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	19.21
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	20.99
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	20.96
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	20.05
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	17.08
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	21.02
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	21.07
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	21.06
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	20.96
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	21.05
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	21.02
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	20.98
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	20.99
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	20.97
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	21.00
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	20.99

Ant.5 - NR n7 Power Level DSI 4 (Tune up: 20.00)

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	19.37
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	19.38
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	19.50
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	19.42
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	19.52
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	19.44
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	19.51
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	19.45
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	19.24
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	19.43
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	19.44
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	19.40
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	17.04
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	19.38
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	19.42
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	19.51
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	19.47
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	19.38
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	19.41
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	19.46
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	19.42
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	19.42
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	19.43
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	19.49

**Ant.5 - NR n7 Power Level DSI 1/3 (Tune up: 20.50)**

NR n7							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2567.5	513500	20.02
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2535.0	507000	20.02
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	2502.5	500500	20.09
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2545.0	509000	20.07
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2535.0	507000	20.11
15	50	DFT-s-OFDM QPSK	Inner_Full	135@67	2525.0	505000	20.05
15	50	DFT-s-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	20.08
15	50	DFT-s-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	19.98
15	50	DFT-s-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	19.11
15	50	CP-OFDM QPSK	Inner_Full	135@67	2535.0	507000	19.97
15	50	CP-OFDM 16QAM	Inner_Full	135@67	2535.0	507000	19.97
15	50	CP-OFDM 64QAM	Inner_Full	135@67	2535.0	507000	20.02
15	50	CP-OFDM 256QAM	Inner_Full	135@67	2535.0	507000	17.00
15	50	DFT-s-OFDM QPSK	Edge_Full_Right	2@268	2535.0	507000	19.97
15	50	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2535.0	507000	20.04
15	50	DFT-s-OFDM QPSK	Inner_1RB_Right	1@268	2535.0	507000	19.97
15	50	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2535.0	507000	20.08
15	50	DFT-s-OFDM QPSK	Outer_Full	270@0	2535.0	507000	20.04
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	2535.0	507000	20.07
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	2535.0	507000	20.06
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	2535.0	507000	20.00
15	25	DFT-s-OFDM QPSK	Inner_Full	64@32	2535.0	507000	20.09
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	2535.0	507000	20.08
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	2535.0	507000	20.04

Ant.0 - NR n66 Power Level DSI 2/4 (Tune up: 25.00)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	24.18
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	24.19
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	24.24
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	24.28
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	24.29
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	24.21
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	23.31
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	21.82
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	19.73
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	22.83
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.31
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.82
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	17.96
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	23.36
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	23.11
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	24.26
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	24.08
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	23.29
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	24.28
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	24.25
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	24.15
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	24.26

**Ant.0 - NR n66 Power Level DSI 1/3 (Tune up: 22.00)**

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	21.22
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	21.27
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	21.30
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	21.25
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	21.31
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	21.20
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.21
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	21.20
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	19.76
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	21.17
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.20
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.78
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	17.90
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	21.20
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	21.19
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	21.20
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	21.21
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	21.27
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	21.19
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	21.22
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	21.16
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	21.26

Ant.1 - NR n66 Power Level DSI 2 (Tune up: 22.60)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	22.34
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	22.26
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	22.28
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	22.37
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	22.40
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	22.34
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.27
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	21.83
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	19.88
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	22.34
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.33
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.80
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	17.93
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	22.36
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	22.32
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	22.30
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	22.31
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	22.25
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	22.26
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	22.26
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	22.37
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	22.32

**Ant.1 - NR n66 Power Level DSI 4 (Tune up: 20.60)**

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	20.37
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	20.24
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	20.24
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	20.37
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	20.38
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	20.33
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	20.29
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.26
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	19.85
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	20.29
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	20.31
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.37
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	17.91
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	20.23
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	20.28
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	20.29
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	20.25
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	20.36
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	20.34
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	20.26
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	20.35
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	20.33

Ant.1 - NR n66 Power Level DSI 1/3 (Tune up: 23.60)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	23.22
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	23.34
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	23.22
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	23.35
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	23.37
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	23.32
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	23.34
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	21.95
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	19.79
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	22.94
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.42
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.89
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.00
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	23.23
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	23.24
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	23.25
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	23.22
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	23.32
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	23.30
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	23.26
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	23.24
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	23.29

**Ant.4 - NR n66 Power Level DSI 2 (Tune up: 18.30)**

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	18.11
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	18.25
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	18.22
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	18.21
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	18.26
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	18.20
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	18.19
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	18.23
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.14
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	18.22
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	18.11
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	18.17
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.25
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	18.11
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	18.12
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	18.22
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	18.22
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	18.24
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	18.11
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	18.12
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	18.17
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	18.25

Ant.4 - NR n66 Power Level DSI 4 (Tune up: 16.30)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	16.24
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	16.11
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	16.14
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	16.20
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	16.25
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	16.18
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	16.24
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	16.11
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	16.18
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	16.17
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	16.12
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	16.22
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	16.15
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	16.21
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	16.23
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	16.10
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	16.13
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	16.14
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	16.21
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	16.20
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	16.15
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	16.23

**Ant.4 - NR n66 Power Level DSI 1/3 (Tune up: 21.80)**

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	21.62
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	21.62
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	21.72
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	21.74
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	21.75
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	21.71
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.68
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	21.71
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	20.11
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	21.68
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	21.64
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	21.31
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.39
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	21.66
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	21.61
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	21.60
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	21.71
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	21.71
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	21.71
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	21.74
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	21.71
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	21.64

Ant.5 - NR n66 Power Level DSI 2 (Tune up: 24.00)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	23.72
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	23.72
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	23.73
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	23.75
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	23.81
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	23.73
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	23.77
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	22.29
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	20.51
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	23.23
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.84
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	21.24
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.43
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	23.77
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	23.73
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	23.75
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	23.75
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	23.68
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	23.74
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	23.69
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	23.75
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	23.72

**Ant.5 - NR n66 Power Level DSI 4 (Tune up: 20.50)**

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	20.27
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	20.29
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	20.20
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	20.27
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	20.35
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	20.21
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	20.34
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.24
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	20.24
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	20.28
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	20.22
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	20.33
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.36
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	20.23
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	20.31
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	20.26
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	20.25
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	20.25
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	20.33
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	20.24
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	20.34
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	20.34

Ant.5 - NR n66 Power Level DSI 1/3 (Tune up: 23.00)

NR n66							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1777.5	355500	22.69
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1745.0	349000	22.72
15	5	DFT-s-OFDM QPSK	Inner_Full	12@6	1712.5	342500	22.80
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1760.0	352000	22.77
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1745.0	349000	22.82
15	40	DFT-s-OFDM QPSK	Inner_Full	108@54	1730.0	346000	22.75
15	40	DFT-s-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.73
15	40	DFT-s-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	22.35
15	40	DFT-s-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	20.51
15	40	CP-OFDM QPSK	Inner_Full	108@54	1745.0	349000	22.71
15	40	CP-OFDM 16QAM	Inner_Full	108@54	1745.0	349000	22.71
15	40	CP-OFDM 64QAM	Inner_Full	108@54	1745.0	349000	21.35
15	40	CP-OFDM 256QAM	Inner_Full	108@54	1745.0	349000	18.43
15	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@214	1745.0	349000	22.73
15	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	1745.0	349000	22.78
15	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@214	1745.0	349000	22.77
15	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	1745.0	349000	22.75
15	40	DFT-s-OFDM QPSK	Outer_Full	216@0	1745.0	349000	22.77
15	10	DFT-s-OFDM QPSK	Inner_Full	25@12	1745.0	349000	22.73
15	15	DFT-s-OFDM QPSK	Inner_Full	36@18	1745.0	349000	22.68
15	20	DFT-s-OFDM QPSK	Inner_Full	50@25	1745.0	349000	22.67
15	30	DFT-s-OFDM QPSK	Inner_Full	80@40	1745.0	349000	22.76

**Ant.0 - NR n38 Power Level DSI 2/4/1/3 (Tune up: 25.00)**

NR n38							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2615.0	523000	24.45
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2595.0	519000	24.52
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2575.0	515000	24.48
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2600.0	520000	24.51
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2595.0	519000	24.55
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2590.0	518000	24.52
30	40	DFT-s-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	23.54
30	40	DFT-s-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	22.06
30	40	DFT-s-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	20.14
30	40	CP-OFDM QPSK	Inner_Full	50@25	2595.0	519000	23.05
30	40	CP-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	22.53
30	40	CP-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	21.01
30	40	CP-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	18.05
30	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2595.0	519000	23.57
30	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2595.0	519000	23.53
30	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2595.0	519000	24.52
30	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2595.0	519000	24.45
30	40	DFT-s-OFDM QPSK	Outer_Full	100@0	2595.0	519000	23.59
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2595.0	519000	24.46
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2595.0	519000	24.40
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2595.0	519000	24.43
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2595.0	519000	24.46

Ant.1 - NR n38 Power Level DSI 2 (Tune up: 20.60)

NR n38							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2615.0	523000	20.23
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2595.0	519000	20.28
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2575.0	515000	20.25
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2600.0	520000	20.29
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2595.0	519000	20.34
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2590.0	518000	20.28
30	40	DFT-s-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	20.25
30	40	DFT-s-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	20.19
30	40	DFT-s-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	19.82
30	40	CP-OFDM QPSK	Inner_Full	50@25	2595.0	519000	20.28
30	40	CP-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	20.23
30	40	CP-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	20.26
30	40	CP-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	17.71
30	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2595.0	519000	20.19
30	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2595.0	519000	20.19
30	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2595.0	519000	20.29
30	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2595.0	519000	20.32
30	40	DFT-s-OFDM QPSK	Outer_Full	100@0	2595.0	519000	20.27
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2595.0	519000	20.23
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2595.0	519000	20.20
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2595.0	519000	20.24
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2595.0	519000	20.30

**Ant.1 - NR n38 Power Level DSI 4 (Tune up: 17.60)**

NR n38							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2615.0	523000	17.40
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2595.0	519000	17.36
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2575.0	515000	17.31
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2600.0	520000	17.30
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2595.0	519000	17.44
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2590.0	518000	17.27
30	40	DFT-s-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	17.33
30	40	DFT-s-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	17.33
30	40	DFT-s-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	17.32
30	40	CP-OFDM QPSK	Inner_Full	50@25	2595.0	519000	17.32
30	40	CP-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	17.41
30	40	CP-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	17.29
30	40	CP-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	17.41
30	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2595.0	519000	17.32
30	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2595.0	519000	17.41
30	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2595.0	519000	17.39
30	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2595.0	519000	17.42
30	40	DFT-s-OFDM QPSK	Outer_Full	100@0	2595.0	519000	17.30
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2595.0	519000	17.43
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2595.0	519000	17.36
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2595.0	519000	17.43
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2595.0	519000	17.35

Ant.1 - NR n38 Power Level DSI 1/3 (Tune up: 22.60)

NR n38							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2615.0	523000	22.24
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2595.0	519000	22.29
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2575.0	515000	22.21
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2600.0	520000	22.29
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2595.0	519000	22.36
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2590.0	518000	22.25
30	40	DFT-s-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	22.26
30	40	DFT-s-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	21.74
30	40	DFT-s-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	19.87
30	40	CP-OFDM QPSK	Inner_Full	50@25	2595.0	519000	22.27
30	40	CP-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	22.23
30	40	CP-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	20.77
30	40	CP-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	17.72
30	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2595.0	519000	22.30
30	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2595.0	519000	22.26
30	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2595.0	519000	22.23
30	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2595.0	519000	22.28
30	40	DFT-s-OFDM QPSK	Outer_Full	100@0	2595.0	519000	22.35
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2595.0	519000	22.33
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2595.0	519000	22.35
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2595.0	519000	22.26
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2595.0	519000	22.34

**Ant.4 - NR n38 Power Level DSI 2 (Tune up: 17.50)**

NR n38							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2615.0	523000	17.14
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2595.0	519000	17.03
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2575.0	515000	17.09
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2600.0	520000	17.11
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2595.0	519000	17.15
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2590.0	518000	17.06
30	40	DFT-s-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	17.11
30	40	DFT-s-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	17.14
30	40	DFT-s-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	17.04
30	40	CP-OFDM QPSK	Inner_Full	50@25	2595.0	519000	17.08
30	40	CP-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	17.12
30	40	CP-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	17.03
30	40	CP-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	17.12
30	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2595.0	519000	17.05
30	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2595.0	519000	17.01
30	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2595.0	519000	17.06
30	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2595.0	519000	17.04
30	40	DFT-s-OFDM QPSK	Outer_Full	100@0	2595.0	519000	17.03
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2595.0	519000	17.08
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2595.0	519000	17.00
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2595.0	519000	17.03
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2595.0	519000	17.07

Ant.4 - NR n38 Power Level DSI 4 (Tune up: 16.00)

NR n38							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2615.0	523000	15.57
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2595.0	519000	15.51
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2575.0	515000	15.57
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2600.0	520000	15.58
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2595.0	519000	15.63
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2590.0	518000	15.56
30	40	DFT-s-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	15.55
30	40	DFT-s-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	15.53
30	40	DFT-s-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	15.55
30	40	CP-OFDM QPSK	Inner_Full	50@25	2595.0	519000	15.49
30	40	CP-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	15.53
30	40	CP-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	15.48
30	40	CP-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	15.53
30	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2595.0	519000	15.59
30	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2595.0	519000	15.51
30	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2595.0	519000	15.59
30	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2595.0	519000	15.57
30	40	DFT-s-OFDM QPSK	Outer_Full	100@0	2595.0	519000	15.51
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2595.0	519000	15.49
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2595.0	519000	15.50
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2595.0	519000	15.49
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2595.0	519000	15.52

**Ant.4 - NR n38 Power Level DSI 1/3 (Tune up: 22.80)**

NR n38							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2615.0	523000	22.40
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2595.0	519000	22.29
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2575.0	515000	22.33
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2600.0	520000	22.38
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2595.0	519000	22.41
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2590.0	518000	22.36
30	40	DFT-s-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	22.36
30	40	DFT-s-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	22.19
30	40	DFT-s-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	20.12
30	40	CP-OFDM QPSK	Inner_Full	50@25	2595.0	519000	22.38
30	40	CP-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	22.34
30	40	CP-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	21.05
30	40	CP-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	18.17
30	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2595.0	519000	22.31
30	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2595.0	519000	22.31
30	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2595.0	519000	22.31
30	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2595.0	519000	22.31
30	40	DFT-s-OFDM QPSK	Outer_Full	100@0	2595.0	519000	22.30
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2595.0	519000	22.27
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2595.0	519000	22.28
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2595.0	519000	22.38
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2595.0	519000	22.29

Ant.5 - NR n38 Power Level DSI 2/4/1/3 (Tune up: 20.50)

NR n38							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2615.0	523000	20.29
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2595.0	519000	20.36
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2575.0	515000	20.29
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2600.0	520000	20.39
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2595.0	519000	20.40
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2590.0	518000	20.38
30	40	DFT-s-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	20.36
30	40	DFT-s-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	20.33
30	40	DFT-s-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	20.34
30	40	CP-OFDM QPSK	Inner_Full	50@25	2595.0	519000	20.34
30	40	CP-OFDM 16QAM	Inner_Full	50@25	2595.0	519000	20.32
30	40	CP-OFDM 64QAM	Inner_Full	50@25	2595.0	519000	20.35
30	40	CP-OFDM 256QAM	Inner_Full	50@25	2595.0	519000	18.38
30	40	DFT-s-OFDM QPSK	Edge_Full_Right	2@104	2595.0	519000	20.25
30	40	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2595.0	519000	20.38
30	40	DFT-s-OFDM QPSK	Inner_1RB_Right	1@104	2595.0	519000	20.26
30	40	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2595.0	519000	20.27
30	40	DFT-s-OFDM QPSK	Outer_Full	100@0	2595.0	519000	20.30
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2595.0	519000	20.30
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2595.0	519000	20.37
30	25	DFT-s-OFDM QPSK	Inner_Full	32@16	2595.0	519000	20.26
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2595.0	519000	20.30



Ant.0 - NR n41 PC2 Power Level DSI 2/4 (Tune up: 28.00)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	26.97
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	27.02
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	27.04
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	26.76
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	27.08
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	26.85
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	26.57
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	25.53
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	24.06
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	26.46
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	25.54
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	24.95
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	21.92
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	25.62
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	25.87
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	26.42
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	26.56
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	26.20
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	26.99
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	26.99
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	26.95
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	26.98
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	27.04
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	26.96
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	26.95
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	26.97

**Ant.0 - NR n41 PC2 Power Level DSI 1/3 (Tune up: 25.50)**

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	24.48
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	24.53
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	24.51
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	24.25
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	24.59
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	24.38
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	24.56
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	24.50
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	24.04
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	24.45
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	24.52
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	24.48
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	21.91
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	24.51
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	24.54
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	24.49
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	24.45
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	24.47
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	24.51
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	24.45
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	24.50
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	24.48
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	24.52
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	24.50
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	24.56
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	24.45

**Ant.1 - NR n41 PC2 Power Level DSI 2 (Tune up: 19.50)**

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	18.37
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	18.40
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	18.32
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	18.10
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	18.47
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	18.45
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	18.43
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	18.34
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	18.34
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	18.42
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	18.35
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	18.33
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	18.34
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	18.41
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	18.36
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	18.35
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	18.35
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	18.46
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	18.46
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	18.38
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	18.35
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	18.36
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	18.37
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	18.37
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	18.46
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	18.46



Ant.1 - NR n41 PC2 Power Level DSI 4 (Tune up: 16.50)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	15.41
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	15.31
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	15.35
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	15.15
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	15.46
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	15.44
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	15.44
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	15.38
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	15.37
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	15.42
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	15.39
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	15.44
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	15.37
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	15.34
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	15.38
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	15.35
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	15.36
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	15.40
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	15.34
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	15.37
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	15.33
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	15.31
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	15.41
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	15.33
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	15.39
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	15.36

**Ant.1 - NR n41 PC2 Power Level DSI 1/3 (Tune up: 20.70)**

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	19.53
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	19.65
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	19.54
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	19.34
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	19.66
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	19.60
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	19.65
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	19.59
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	19.63
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	19.51
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	19.60
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	19.62
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	19.55
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	19.61
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	19.63
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	19.65
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	19.59
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	19.64
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	19.52
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	19.55
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	19.55
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	19.63
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	19.61
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	19.65
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	19.56
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	19.52



Ant.4 - NR n41 PC2 Power Level DSI 2 (Tune up: 17.90)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	16.93
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	17.00
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	16.94
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	16.75
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	17.01
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	16.97
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	16.96
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	17.00
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	16.86
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	16.90
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	16.95
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	16.98
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	16.90
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	16.99
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	16.96
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	16.90
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	16.96
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	16.96
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	16.97
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	16.88
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	16.99
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	16.94
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	16.87
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	16.90
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	16.99
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	16.86



Ant.4 - NR n41 PC2 Power Level DSI 4 (Tune up: 14.90)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	13.99
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	13.88
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	13.87
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	13.95
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	14.00
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	13.94
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	13.86
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	13.96
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	13.95
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	13.89
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	13.98
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	13.91
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	13.90
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	13.94
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	13.97
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	13.95
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	13.95
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	13.87
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	13.87
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	13.85
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	13.91
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	13.91
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	13.95
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	13.88
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	13.98
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	13.89



Ant.4 - NR n41 PC2 Power Level DSI 1 (Tune up: 23.20)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	22.29
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	22.33
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	22.26
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	22.01
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	22.35
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	22.24
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	22.25
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	22.26
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	22.27
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	22.26
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	22.24
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	22.25
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	22.03
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	22.29
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	22.22
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	22.29
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	22.29
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	22.32
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	22.34
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	22.29
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	22.23
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	22.25
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	22.23
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	22.25
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	22.20
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	22.32

**Ant.4 - NR n41 PC2 Power Level DSI 3 (Tune up: 22.20)**

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	21.31
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	21.31
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	21.29
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	21.26
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	21.39
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	21.33
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	21.32
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	21.38
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	21.29
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	21.24
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	21.38
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	21.27
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	21.38
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	21.33
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	21.26
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	21.31
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	21.26
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	21.37
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	21.25
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	21.31
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	21.25
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	21.37
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	21.38
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	21.25
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	21.34
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	21.35

**Ant.5 - NR n41 PC2 Power Level DSI 2 (Tune up: 22.00)**

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	20.76
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	20.71
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	20.72
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	20.50
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	20.81
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	20.79
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	20.74
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	20.78
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	20.78
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	20.78
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	20.68
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	20.66
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	20.79
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	20.69
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	20.79
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	20.72
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	20.72
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	20.72
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	20.79
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	20.71
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	20.74
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	20.73
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	20.80
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	20.76
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	20.76
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	20.75



Ant.5 - NR n41 PC2 Power Level DSI 4 (Tune up: 20.50)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	19.23
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	19.26
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	19.26
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	19.02
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	19.33
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	19.28
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	19.22
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	19.21
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	19.28
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	19.28
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	19.27
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	19.20
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	19.18
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	19.32
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	19.18
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	19.26
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	19.28
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	19.29
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	19.29
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	19.18
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	19.20
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	19.19
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	19.29
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	19.23
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	19.30
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	19.28



Ant.5 - NR n41 PC2 Power Level DSI 1/3 (Tune up: 21.30)

NR n41							
SCS (kHz)	BW (MHz)	Modulation	RB allocation		Frequency (MHz)	Channel	Conducted Power (dBm)
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2685.00	537000	20.02
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2592.99	518598	20.08
30	10	DFT-s-OFDM QPSK	Inner_Full	12@6	2501.01	500202	20.14
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2640.00	528000	19.83
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2592.99	518598	20.16
30	100	DFT-s-OFDM QPSK	Inner_Full	135@67	2546.01	509202	20.11
30	100	DFT-s-OFDM 16QAM	Inner_Full	135@67	2592.99	518598	20.06
30	100	DFT-s-OFDM 64QAM	Inner_Full	135@67	2592.99	518598	20.07
30	100	DFT-s-OFDM 256QAM	Inner_Full	135@67	2592.99	518598	20.12
30	100	CP-OFDM QPSK	Inner_Full	137@68	2592.99	518598	20.15
30	100	CP-OFDM 16QAM	Inner_Full	137@68	2592.99	518598	20.06
30	100	CP-OFDM 64QAM	Inner_Full	137@68	2592.99	518598	20.15
30	100	CP-OFDM 256QAM	Inner_Full	137@68	2592.99	518598	20.14
30	100	DFT-s-OFDM QPSK	Edge_Full_Right	2@271	2592.99	518598	20.05
30	100	DFT-s-OFDM QPSK	Edge_Full_Left	2@0	2592.99	518598	20.09
30	100	DFT-s-OFDM QPSK	Inner_1RB_Right	1@271	2592.99	518598	20.05
30	100	DFT-s-OFDM QPSK	Inner_1RB_Left	1@1	2592.99	518598	20.09
30	100	DFT-s-OFDM QPSK	Outer_Full	270@0	2592.99	518598	20.07
30	15	DFT-s-OFDM QPSK	Inner_Full	18@9	2592.99	518598	20.15
30	20	DFT-s-OFDM QPSK	Inner_Full	25@12	2592.99	518598	20.11
30	30	DFT-s-OFDM QPSK	Inner_Full	36@18	2592.99	518598	20.05
30	40	DFT-s-OFDM QPSK	Inner_Full	50@25	2592.99	518598	20.12
30	50	DFT-s-OFDM QPSK	Inner_Full	64@32	2592.99	518598	20.05
30	60	DFT-s-OFDM QPSK	Inner_Full	81@40	2592.99	518598	20.10
30	80	DFT-s-OFDM QPSK	Inner_Full	108@54	2592.99	518598	20.02
30	90	DFT-s-OFDM QPSK	Inner_Full	120@60	2592.99	518598	20.07

11.5. Bluetooth and WLAN Measurement result

Table 11.5: The conducted Power measurement results for Bluetooth

Ant.8 - Bluetooth Power Level C1/C2/C3/C4/C5/D1/D2/D3/D4/D5

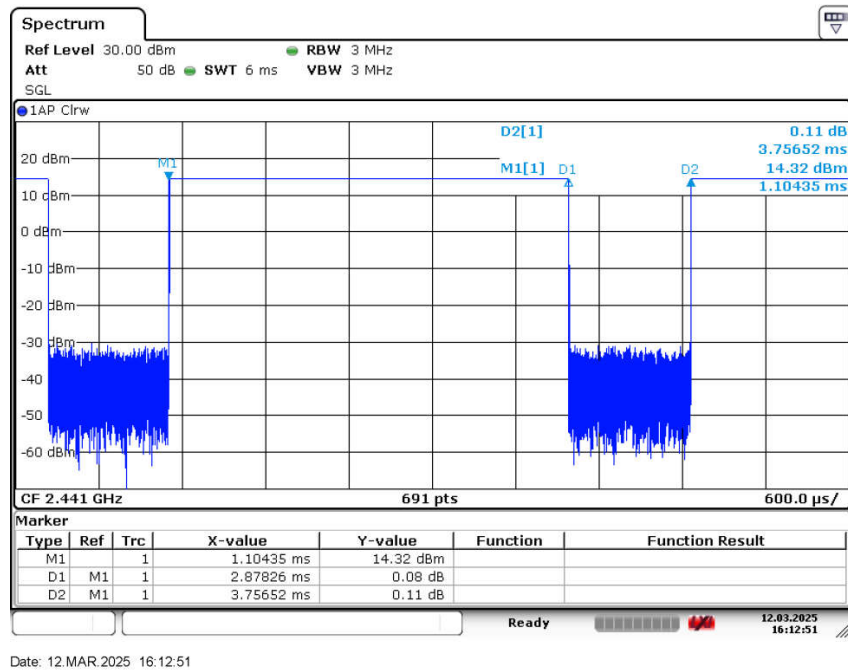
Mode	Channel	Frequency [MHz]	Ant. 8	
			Averaged Power [dBm]	Tune up [dBm]
GFSK	0	2402.0	13.25	15.00
	39	2441.0	13.17	15.00
	78	2480.0	13.27	15.00
EDR2M-4_DQPSK	0	2402.0	11.35	13.00
	39	2441.0	11.77	13.00
	78	2480.0	11.99	13.00
EDR3M-8DPSK	0	2402.0	11.30	13.00
	39	2441.0	11.74	13.00
	78	2480.0	11.95	13.00
BLE 1M	0	2402.0	4.35	9.00
	19	2440.0	4.35	9.00
	39	2480.0	4.66	9.00
BLE 2M	1	2404.0	5.04	9.00
	19	2440.0	4.32	9.00
	38	2478.0	4.40	9.00

Ant.11 - Bluetooth Power Level C1/C2/C3/C4/C5/D1/D2/D3/D4/D5

Mode	Channel	Frequency [MHz]	Ant. 11	
			Averaged Power [dBm]	Tune up [dBm]
GFSK	0	2402.0	13.64	15.00
	39	2441.0	13.82	15.00
	78	2480.0	13.68	15.00
EDR2M-4_DQPSK	0	2402.0	11.50	13.00
	39	2441.0	11.65	13.00
	78	2480.0	11.51	13.00
EDR3M-8DPSK	0	2402.0	11.45	13.00
	39	2441.0	11.69	13.00
	78	2480.0	11.65	13.00
BLE 1M	0	2402.0	4.71	9.00
	19	2440.0	4.93	9.00
	39	2480.0	4.82	9.00
BLE 2M	1	2404.0	4.80	9.00
	19	2440.0	4.96	9.00
	38	2478.0	4.77	9.00

**Ant.13 - Bluetooth Power Level C1/C2/C3/C4/C5/D1/D2/D3/D4/D5**

Mode	Channel	Frequency [MHz]	Ant. 13	
			Averaged Power [dBm]	Tune up [dBm]
GFSK	0	2402.0	13.12	15.00
	39	2441.0	13.03	15.00
	78	2480.0	13.34	15.00
EDR2M-4_DQPSK	0	2402.0	11.22	13.00
	39	2441.0	10.93	13.00
	78	2480.0	10.73	13.00
EDR3M-8DPSK	0	2402.0	11.14	13.00
	39	2441.0	10.93	13.00
	78	2480.0	10.72	13.00
BLE 1M	0	2402.0	4.83	9.00
	19	2440.0	4.91	9.00
	39	2480.0	4.64	9.00
BLE 2M	1	2404.0	4.83	9.00
	19	2440.0	4.78	9.00
	38	2478.0	4.87	9.00

Duty factor plot

$$\text{Duty cycle} = \text{on time} / \text{total time} = (2.87826 / 3.75652) * 100\% = 76.62\%$$

**Table 11.6: The conducted Power measurement results for WLAN 2.4GHz****Ant.8 - WLAN 2.4GHz Power Level C1/C2/C3**

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	16.55	16.65	16.62	17.50
802.11g	16.46	16.38	16.53	17.50
802.11n(20MHz)	16.77	16.84	16.70	17.50
802.11ac(20MHz)	16.81	16.80	16.65	17.50
802.11ax(20MHz)	16.83	16.84	16.90	17.50
802.11be(20MHz)	16.70	16.87	16.70	17.50

Ant.8 - WLAN 2.4GHz Power Level C4/C5

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	12.57	12.58	12.47	13.00
802.11g	12.22	12.18	12.30	13.00
802.11n(20MHz)	12.30	12.41	12.36	13.00
802.11ac(20MHz)	12.21	12.13	12.33	13.00
802.11ax(20MHz)	12.32	12.41	12.37	13.00
802.11be(20MHz)	12.32	12.28	12.30	13.00

Ant.8 - WLAN 2.4GHz Power Level D1/D2/D3

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	17.42	17.48	17.39	18.00
802.11g	17.16	17.10	17.18	18.00
802.11n(20MHz)	17.16	17.21	17.20	18.00
802.11ac(20MHz)	17.11	17.10	17.14	18.00
802.11ax(20MHz)	17.20	17.23	17.24	18.00
802.11be(20MHz)	17.17	17.21	17.19	18.00

Ant.8 - WLAN 2.4GHz Power Level D4/D5

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	15.10	15.14	14.91	15.50
802.11g	14.70	14.64	14.78	15.50
802.11n(20MHz)	14.72	14.83	14.79	15.50
802.11ac(20MHz)	14.70	14.72	14.70	15.50
802.11ax(20MHz)	14.74	14.85	14.89	15.50
802.11be(20MHz)	14.76	14.80	14.79	15.50

**Ant.13 - WLAN 2.4GHz Power Level C1/C2/C3**

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	17.10	17.14	16.95	17.50
802.11g	16.85	16.90	16.89	17.50
802.11n(20MHz)	16.73	16.89	16.80	17.50
802.11ac(20MHz)	16.81	16.87	16.82	17.50
802.11ax(20MHz)	16.89	16.95	16.86	17.50
802.11be(20MHz)	16.78	16.83	16.82	17.50

Ant.13 - WLAN 2.4GHz Power Level C4/C5

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	12.56	12.58	12.55	13.00
802.11g	12.37	12.29	12.19	13.00
802.11n(20MHz)	12.30	12.35	12.29	13.00
802.11ac(20MHz)	12.33	12.44	12.18	13.00
802.11ax(20MHz)	12.27	12.46	12.39	13.00
802.11be(20MHz)	12.37	12.47	12.20	13.00

Ant.13 - WLAN 2.4GHz Power Level D1/D2/D3/D4/D5

Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	17.49	17.54	17.38	18.00
802.11g	17.21	17.24	17.19	18.00
802.11n(20MHz)	17.19	17.30	17.23	18.00
802.11ac(20MHz)	17.17	17.24	17.15	18.00
802.11ax(20MHz)	17.26	17.34	17.21	18.00
802.11be(20MHz)	17.24	17.28	17.20	18.00

MIMO - WLAN 2.4GHz

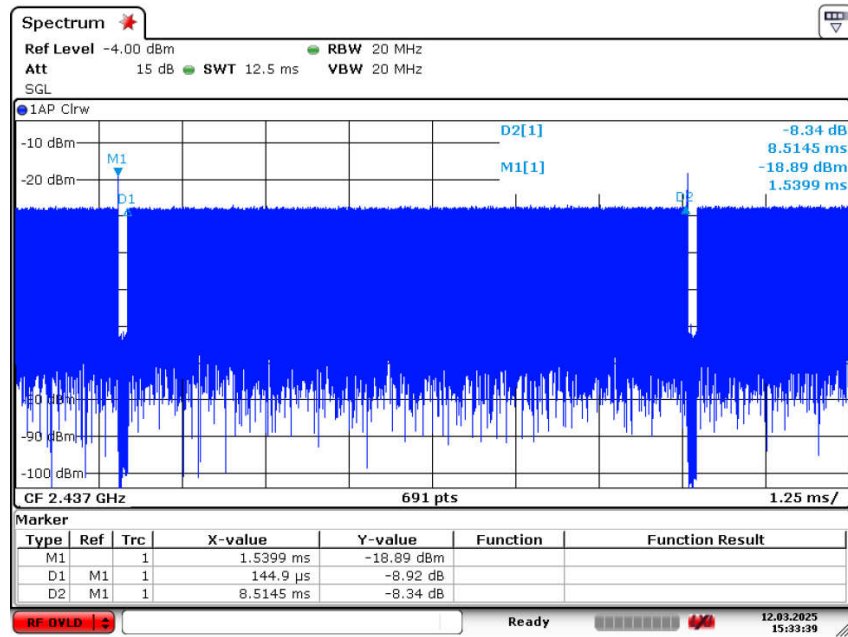
Averaged Power (dBm)				Tune up (dBm)
Mode	Ch.1 (2412MHz)	Ch.6 (2437MHz)	Ch.11 (2462MHz)	
802.11b	/	/	/	/
802.11g	/	/	/	/
802.11n(20MHz)	20.19	20.27	20.23	21.00
802.11ac(20MHz)	20.15	20.18	20.16	21.00
802.11ax(20MHz)	20.24	20.30	20.24	21.00
802.11be(20MHz)	20.22	20.26	20.21	21.00

Note: WLAN 2.4GHz 802.11n/11ac/11ax/11be of Ant.8 and Ant.13 can transmit in MIMO mode and the power level in MIMO mode are equivalent to SISO mode.



No. 25T04N000127-011-SAR

Duty factor plot



Date: 12.MAR.2025 15:33:40

$$\text{Duty cycle} = \text{on time} / \text{total time} = [(8.5145 - 0.1449) / 8.5145] * 100\% = 98.30\%$$



Table 11.7: The conducted Power measurement results for WLAN 5GHz

Ant.12 - WLAN 5GHz Power Level C1/C2

Averaged Power (dBm)																								
Mode	802.11a	802.11n-20MHz	802.11ac-20MHz	802.11ac-20MHz	802.11be-20MHz	Mode	802.11n-40MHz	802.11ac-40MHz	802.11ac-40MHz	802.11be-40MHz	Mode	802.11ac-80MHz	802.11ac-80MHz	802.11be-80MHz	Mode	802.11ac-160MHz	802.11ac-160MHz	802.11be-160MHz	802.11be-160MHz					
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0					
<U-NB-1>																								
Tune up	17.10	17.00	17.00	17.00	17.00	/	17.00	17.00	17.00	17.00	/	17.00	17.00	17.00	/	/	/	/	/					
36(5180MHz)	15.97	16.22	16.20	16.35	16.42	38(5190MHz)	16.28	16.25	16.02	15.86	42(5210MHz)	15.89	16.02	15.63	/	/	/	/	/					
40(5200MHz)	16.09	16.15	16.18	16.33	16.25	46(5230MHz)	15.96	16.00	15.87	15.83	/	/	/	/	/	/	/	/	/					
44(5220MHz)	16.05	16.19	16.24	16.30	16.24	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
48(5240MHz)	16.02	16.19	16.23	16.37	16.32	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
<U-NB-2A>																								
Tune up	15.60	15.50	15.50	15.50	15.50	/	15.50	15.50	15.50	15.50	/	15.50	15.50	15.50	/	15.50	15.50	15.50	15.50					
52(5260MHz)	14.60	14.65	14.87	15.14	15.12	54(5270MHz)	14.75	14.86	15.05	14.82	58(5290MHz)	14.59	14.52	14.49	50(5250MHz)	14.44	14.42	14.41	/					
56(5280MHz)	14.43	14.83	14.96	15.04	15.02	62(5310MHz)	14.67	14.79	14.93	14.69	/	/	/	/	/	/	/	/	/					
60(5300MHz)	14.54	14.70	14.84	15.06	15.06	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
64(5320MHz)	14.52	14.73	14.83	14.91	14.84	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
<U-NB-2C>																								
Tune up	16.60	16.50	16.50	16.50	16.50	/	16.50	16.50	16.50	16.50	/	16.50	16.50	16.50	/	16.50	16.50	16.50	16.50					
100(5500MHz)	15.36	15.52	15.41	15.51	15.52	102(5510MHz)	15.42	15.34	15.59	15.52	106(5530MHz)	15.45	15.62	15.49	114(5570MHz)	15.51	15.60	14.86	/					
116(5580MHz)	15.53	15.63	15.61	15.78	15.70	110(5550MHz)	15.34	15.25	15.46	15.43	122(5610MHz)	15.46	15.56	15.61	15.61	/	/	/	/					
124(5620MHz)	15.41	15.59	15.52	15.73	15.67	126(5630MHz)	15.44	15.44	15.79	15.69	138(5690MHz)	15.10	15.17	15.26	/	/	/	/	/					
132(5660MHz)	15.36	15.71	15.49	15.66	15.72	134(5670MHz)	15.50	15.48	15.68	15.56	/	/	/	/	/	/	/	/	/					
140(5700MHz)	15.07	15.19	15.20	15.38	15.38	/	/	/	/	/	/	/	/	/	/	/	/	/	/					
<U-NB-3>																								
Tune up	15.10	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00	/	15.00	15.00	15.00	15.00					
146(5740MHz)	13.81	14.03	13.96	14.15	14.15	151(5755MHz)	14.07	13.88	14.00	14.12	155(5775MHz)	13.88	13.96	13.97	/	/	/	/	/					
157(5785MHz)	13.96	14.08	14.10	14.11	14.05	159(5795MHz)	13.97	13.79	14.01	13.99	/	/	/	/	/	/	/	/	/					
165(5825MHz)	13.94	14.09	14.13	14.13	14.17	/	/	/	/	/	/	/	/	/	/	/	/	/	/					

Ant.12 - WLAN 5GHz Power Level C3/C4

Averaged Power (dBm)																							
Mode	802.11a	802.11n-20MHz	802.11ac-20MHz	802.11ac-20MHz	802.11be-20MHz	Mode	802.11n-40MHz	802.11ac-40MHz	802.11ac-40MHz	802.11be-40MHz	Mode	802.11ac-80MHz	802.11ac-80MHz	802.11be-80MHz	Mode	802.11ac-160MHz	802.11ac-160MHz	802.11be-160MHz					
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0					
<U-NB-1>																							
Tune up	15.60	15.50	15.50	15.50	15.50	/	15.50	15.50	15.50	15.50	/	15.50	15.50	15.50	/	/	/	/					
36(5180MHz)	14.54	14.73	14.75	14.88	14.84	38(5190MHz)	14.68	14.60	14.85	14.75	42(5210MHz)	14.41	14.44	14.44	/	/	/	/					
40(5200MHz)	14.65	14.63	14.56	14.69	14.83	46(5230MHz)	14.39	14.56	14.66	14.66	/	/	/	/	/	/	/	/					
44(5220MHz)	14.61	14.58	14.69	14.82	14.70	/	/	/	/	/	/	/	/	/	/	/	/	/					
48(5240MHz)	14.58	14.65	14.76	14.87	14.75	/	/	/	/	/	/	/	/	/	/	/	/	/					
<U-NB-2A>																							
Tune up	11.10	11.00	11.00	11.00	11.00	/	11.00	11.00	11.00	11.00	/	11.00	11.00	11.00	/	11.00	11.00	11.00					
52(5260MHz)	10.14	10.26	10.42	10.66	10.52	54(5270MHz)	10.39	10.38	10.57	10.44	58(5290MHz)	9.96	10.11	10.08	50(5250MHz)	9.77	9.91	9.97					
56(5280MHz)	9.95	10.48	10.42	10.60	10.50	62(5310MHz)	10.16	10.15	10.36	10.27	/	/	/	/	/	/	/	/					
60(5300MHz)	10.04	10.24	10.31	10.40	10.42	/	/	/	/	/	/	/	/	/	/	/	/	/					
64(5320MHz)	10.01	10.25	10.25	10.43	10.49	/	/	/	/	/	/	/	/	/	/	/	/	/					
<U-NB-2C>																							
Tune up	12.10	12.00	12.00	12.00	12.00	/	12.00	12.00	12.00	12.00	/	12.00	12.00	12.00	/	12.00	12.00	12.00					
100(5500MHz)	10.86	10.88	10.83	11.01	11.05	102(5510MHz)	10.86	10.79	11.05	10.98	106(5530MHz)	10.89	10.96	11.01	114(5570MHz)	10.96	11.02	10.90					
116(5580MHz)	11.06	11.16	11.15	11.29	11.26	110(5550MHz)	10.70	10.72	10.88	11.00	122(5610MHz)	10.95	10.96	11.06	/	/	/	/					
124(5620MHz)	11.32	11.04	11.06	11.25	11.02	126(5630MHz)	10.97	10.92	11.28	11.13	138(5690MHz)	10.66	10.66	10.64	/	/	/	/					
132(5660MHz)	10.82	11.20	11.04	11.27	11.18	134(5670MHz)	10.92	10.94	11.04	11.00	/	/	/	/	/	/	/	/					
140(5700MHz)	10.68	10.75	10.61	10.93	10.91	/	/	/	/	/	/	/	/	/	/	/	/	/					
<U-NB-3>																							
Tune up	13.60	13.50	13.50	13.50	13.50	/	13.50	13.50	13.50	13.50	/	13.50	13.50	13.50	/	13.50	13.50	13.50					
146(5740MHz)	12.34	12.30	12.23	12.48	12.48	151(5755MHz)	12.39	12.19	12.28	12.44	155(5775MHz)	12.22	12.42	12.45	12.08	/	/	/					
157(5785MHz)	12.45	12.33	12.42	12.42	12.31	159(5795MHz)	12.29	12.06	12.30	12.31	/	/	/	/	/	/	/	/					
165(5825MHz)	12.38	12.42	12.40	12.44	12.48	/	/	/	/	/	/	/	/	/	/	/	/	/					

Ant.12 - WLAN 5GHz Power Level C5

Averaged Power (dBm)		
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Ant.12 - WLAN 5GHz Power Level D1/D2/D3

Averaged Power (dBm)														
Mode	802.11a	802.11n- 20MHz	802.11ac- 20MHz	802.11ac- 20MHz	802.11b- 20MHz	Mode	802.11n- 40MHz	802.11ac- 40MHz	802.11ac- 40MHz	802.11b- 40MHz	Mode	802.11ac- 80MHz	802.11ac- 80MHz	802.11b- 80MHz
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0
<U-NR-1>														
Tune up	20.10	18.00	18.00	18.00	18.00	/	18.00	18.00	17.00	17.00	/	18.00	18.00	17.00
36(5180MHz)	18.93	17.12	17.09	17.28	17.28	38(5190MHz)	17.09	17.07	16.17	16.12	42(5210MHz)	17.84	16.92	15.90
40(5200MHz)	18.98	17.01	17.06	17.14	17.15	46(5230MHz)	16.87	16.89	16.01	15.97	/	/	/	/
44(5220MHz)	18.94	17.08	17.18	17.17	17.16	/	/	/	/	/	/	/	/	/
48(5240MHz)	18.95	16.99	17.10	17.21	17.17	/	/	/	/	/	/	/	/	/
<U-NR-2A>														
Tune up	19.10	18.00	18.00	18.00	18.00	/	18.00	18.00	18.00	17.00	/	18.00	18.00	18.00
52(5260MHz)	18.05	17.14	17.35	17.48	17.46	54(5270MHz)	17.21	17.23	17.39	16.27	58(5290MHz)	16.92	16.98	16.93
56(5280MHz)	17.92	17.32	17.36	17.43	17.45	62(5310MHz)	17.12	17.13	17.24	16.18	/	/	/	/
60(5300MHz)	18.02	17.20	17.27	17.38	17.39	/	/	/	/	/	/	/	/	/
64(5320MHz)	17.82	17.13	17.21	17.32	17.34	/	/	/	/	/	/	/	/	/
<U-NR-2C>														
Tune up	18.10	18.00	18.00	17.00	18.00	/	18.00	18.00	18.00	17.00	/	18.00	17.00	18.00
100(5500MHz)	16.67	16.85	16.73	15.85	16.86	102(5510MHz)	16.75	16.77	16.95	15.90	106(5530MHz)	16.79	15.92	16.86
116(5580MHz)	16.98	17.11	17.02	16.12	17.15	110(5590MHz)	16.64	16.61	16.85	15.85	122(5610MHz)	16.90	15.95	16.94
124(5620MHz)	16.85	16.90	16.97	16.06	17.02	126(5630MHz)	16.89	16.90	17.13	16.02	138(5690MHz)	16.51	15.64	16.59
132(5660MHz)	16.74	17.09	16.92	16.07	17.10	134(5670MHz)	16.83	16.78	17.00	15.91	/	/	/	/
140(5700MHz)	16.54	16.56	16.60	15.78	16.73	/	/	/	/	/	/	/	/	/
<U-NR-3>														
Tune up	19.60	19.50	19.50	19.50	19.50	/	19.50	19.50	19.50	19.50	/	19.50	19.50	19.50
149(5745MHz)	18.12	18.39	18.45	18.51	18.48	151(5755MHz)	18.38	18.36	18.49	18.50	155(5775MHz)	18.37	18.39	18.38
157(5785MHz)	18.26	18.41	18.43	18.53	18.48	159(5795MHz)	18.27	18.22	18.42	18.44	/	/	/	/
165(5825MHz)	18.25	18.52	18.54	18.62	18.57	/	/	/	/	/	/	/	/	/

Ant.12 - WLAN 5GHz Power Level D4/D5

Averaged Power (dBm)														
Mode	802.11a	802.11n- 20MHz	802.11ac- 20MHz	802.11ac- 20MHz	802.11b- 20MHz	Mode	802.11n- 40MHz	802.11ac- 40MHz	802.11ac- 40MHz	802.11b- 40MHz	Mode	802.11ac- 80MHz	802.11ac- 80MHz	802.11b- 80MHz
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0
<U-NR-1>														
Tune up	15.60	15.50	15.50	15.50	15.50	/	15.60	15.60	15.50	15.50	/	15.50	15.50	15.50
36(5180MHz)	14.54	14.73	14.75	14.88	14.84	38(5190MHz)	14.68	14.60	14.85	14.75	42(5210MHz)	14.41	14.44	14.44
40(5200MHz)	14.65	14.63	14.56	14.69	14.83	46(5230MHz)	14.39	14.56	14.66	14.66	/	/	/	/
44(5220MHz)	14.61	14.58	14.69	14.82	14.70	/	/	/	/	/	/	/	/	/
48(5240MHz)	14.58	14.65	14.76	14.87	14.75	/	/	/	/	/	/	/	/	/
<U-NR-2A>														
Tune up	19.10	18.00	18.00	18.00	18.00	/	18.00	18.00	18.00	17.00	/	18.00	18.00	18.00
52(5260MHz)	18.05	17.14	17.35	17.48	17.46	54(5270MHz)	17.21	17.23	17.39	16.27	58(5290MHz)	16.92	16.98	16.93
56(5280MHz)	17.92	17.32	17.36	17.43	17.45	62(5310MHz)	17.12	17.13	17.24	16.18	/	/	/	/
60(5300MHz)	18.02	17.20	17.27	17.38	17.39	/	/	/	/	/	/	/	/	/
64(5320MHz)	17.82	17.13	17.21	17.32	17.34	/	/	/	/	/	/	/	/	/
<U-NR-2C>														
Tune up	18.10	18.00	18.00	17.00	18.00	/	18.00	18.00	18.00	17.00	/	18.00	17.00	18.00
100(5500MHz)	16.67	16.85	16.73	15.85	16.86	102(5510MHz)	16.75	16.77	16.95	15.90	106(5530MHz)	16.79	15.92	16.86
116(5580MHz)	16.98	17.11	17.02	16.12	17.15	110(5590MHz)	16.64	16.61	16.85	15.85	122(5610MHz)	16.90	15.95	16.94
124(5620MHz)	16.85	16.90	16.97	16.06	17.02	126(5630MHz)	16.89	16.90	17.13	16.02	138(5690MHz)	16.51	15.64	16.59
132(5660MHz)	16.74	17.09	16.92	16.07	17.10	134(5670MHz)	16.83	16.78	17.00	15.91	/	/	/	/
140(5700MHz)	16.54	16.56	16.60	15.78	16.73	/	/	/	/	/	/	/	/	/
<U-NR-3>														
Tune up	15.10	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00
149(5745MHz)	13.81	14.03	13.96	14.15	14.15	151(5755MHz)	14.07	13.88	14.00	14.12	155(5775MHz)	13.88	13.96	13.97
157(5785MHz)	13.96	14.08	14.10	14.11	14.05	159(5795MHz)	13.97	13.79	14.01	13.99	/	/	/	/
165(5825MHz)	13.94	14.09	14.13	14.13	14.17	/	/	/	/	/	/	/	/	/

Ant.14 - WLAN 5GHz Power Level C1/C2/C3/C4

Averaged Power (dBm)														
Mode	802.11a	802.11n- 20MHz	802.11ac- 20MHz	802.11ac- 20MHz	802.11b- 20MHz	Mode	802.11n- 40MHz	802.11ac- 40MHz	802.11ac- 40MHz	802.11b- 40MHz	Mode	802.11ac- 80MHz	802.11ac- 80MHz	802.11b- 80MHz
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0
<U-NR-1>														
Tune up	17.10	17.00	17.00	17.00	17.00	/	17.00	17.00	17.00	17.00	/	17.00	17.00	17.00
36(5180MHz)	15.96	15.92	16.13	16.18	16.12	38(5190MHz)	15.94	15.63	15.75	15.69	42(5210MHz)	15.78	15.69	15.71
40(5200MHz)	15.89	16.05	16.16	16.11	16.17	46(5230MHz)	16.01	16.07	15.80	15.86	/	/	/	/
44(5220MHz)	16.07	16.24	16.24	16.25	16.19	/	/	/	/	/	/	/	/	/
48(5240MHz)	16.00	16.13	16.27	16.20	16.21	/	/	/	/	/	/	/	/	/
<U-NR-2A>														
Tune up	15.60	15.50	15.50	15.50	15.50	/	15.60	15.50	15.50	15.50	/	15.50	15.50	15.50
52(5260MHz)	14.58	14.60	14.68	14.68	14.77	54(5270MHz)	14.40	14.11	14.53	14.55	58(5290MHz)	14.32	14.44	14.40
56(5280MHz)	14.52	14.55	14.64	14.74	14.70	62(5310MHz)	14.34	14.26	14.39	14.36	/	/	/	/
60(5300MHz)	14.57	14.57	14.37	14.58	14.62	/	/	/	/	/	/	/	/	/
64(5320MHz)	14.34	14.45	14.55	14.57	14.55	/	/	/	/	/	/	/	/	/
<U-NR-2C>														
Tune up	16.60	16.50	16.50	16.50	16.50	/	16.50	16.50	16.50	16.50	/	16.50	16.50	16.50
100(5500MHz)	15.28	15.20	15.21	15.41	15.31	102(5510MHz)	15.24	15.25	15.47	15.32	106(5530MHz)	15.36	15.38	15.49
116(5580MHz)	15.11	15.23	15.27	15.43	15.36	110(5590MHz)	15.09	15.16	15.34	15.26	122(5610MHz)	15.19	15.44	15.30
124(5620MHz)	15.17	15.16	15.10	15.23	15.27	126(5630MHz)	15.20	15.07	15.25	15.26	138(5690MHz)	15.42	15.50	15.47
132(5660MHz)	15.37	15.43	15.51	15.47	15.71	134(5670MHz)	15.29	15.28	15.45	15.46	/	/	/	/
140(5700MHz)	15.13	15.27	15.15	15.23	15.34	/	/	/	/	/	/	/	/	/
<U-NR-3>														
Tune up	15.10	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00
149(5745MHz)	13.65	13.99	13.87	14.10	14.09	151(5755MHz)	13.72	13.75	13.92	13.76	155(5775MHz)	13.80	13.90	13.88
157(5785MHz)	13.79	14.09	14.08	14.15	14.08	159(5795MHz)	13.72	13.69	13.95	13.82	/	/	/	/
165(5825MHz)	13.76	13.80	13.80	13.99	13.85	/	/	/	/	/	/	/	/	/



Ant.14 - WLAN 5GHz Power Level C5

Averaged Power (dBm)														
Mode	802.11a	802.11n- 20MHz	802.11ac- 20MHz	802.11ac- 20MHz	802.11be- 20MHz	Mode	802.11n- 40MHz	802.11ac- 40MHz	802.11ac- 40MHz	802.11be- 40MHz	Mode	802.11ac- 80MHz	802.11ac- 80MHz	802.11be- 80MHz
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0
<U-NR-1>														
Time up	12.60	12.58	12.58	12.58	12.58	/	12.58	12.58	12.58	12.58	/	12.58	12.58	12.58
36(S180MHz)	11.28	11.28	11.43	11.59	11.58	38(S190MHz)	11.41	11.24	11.50	11.53	42(S210MHz)	11.36	11.63	11.51
40(S200MHz)	11.37	11.53	11.43	11.54	11.48	46(S230MHz)	11.62	11.60	11.59	11.51	/	/	/	/
44(S220MHz)	11.39	11.54	11.56	11.62	11.59	/	/	/	/	/	/	/	/	/
48(S240MHz)	11.28	11.63	11.51	11.68	11.59	/	/	/	/	/	/	/	/	/
<U-NR-2A>														
Time up	15.60	15.50	15.50	15.50	15.50	/	15.50	15.50	15.50	15.50	/	15.50	15.50	15.50
52(S260MHz)	14.58	14.60	14.68	14.68	14.77	54(S270MHz)	14.40	14.11	14.53	14.55	58(S290MHz)	14.32	14.44	14.40
56(S280MHz)	14.52	14.55	14.64	14.74	14.70	62(S310MHz)	14.34	14.26	14.39	14.36	/	/	/	/
60(S300MHz)	14.57	14.57	14.57	14.58	14.62	/	/	/	/	/	/	/	/	/
64(S320MHz)	14.34	14.45	14.55	14.57	14.55	/	/	/	/	/	/	/	/	/
<U-NR-2C>														
Time up	16.60	16.50	16.50	16.50	16.50	/	16.50	16.50	16.50	16.50	/	16.50	16.50	16.50
100(S500MHz)	15.28	15.20	15.21	15.41	15.31	102(S510MHz)	15.24	15.25	15.47	15.32	106(S530MHz)	15.36	15.38	15.49
116(S580MHz)	15.11	15.23	15.27	15.43	15.36	110(S600MHz)	15.09	15.16	15.34	15.28	122(S610MHz)	15.19	15.44	15.30
124(S620MHz)	15.17	15.16	15.10	15.23	15.27	126(S630MHz)	15.20	15.07	15.25	15.26	138(S690MHz)	15.42	15.50	15.47
132(S660MHz)	15.37	15.43	15.51	15.47	15.71	134(S670MHz)	15.29	15.28	15.45	15.46	/	/	/	/
140(S700MHz)	15.13	15.27	15.15	15.23	15.34	/	/	/	/	/	/	/	/	/
<U-NR-3>														
Time up	15.10	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00
149(S745MHz)	13.65	13.96	13.87	14.10	14.09	151(S755MHz)	13.72	13.75	13.92	13.76	155(S775MHz)	13.80	13.90	13.88
157(S785MHz)	13.79	14.09	14.08	14.15	14.08	159(S795MHz)	13.72	13.69	13.95	13.82	/	/	/	/
165(S825MHz)	13.76	13.80	13.80	13.99	13.85	/	/	/	/	/	/	/	/	/

Ant.14 - WLAN 5GHz Power Level D1/D2/D3

Averaged Power (dBm)														
Mode	802.11a	802.11n- 20MHz	802.11ac- 20MHz	802.11ac- 20MHz	802.11be- 20MHz	Mode	802.11n- 40MHz	802.11ac- 40MHz	802.11ac- 40MHz	802.11be- 40MHz	Mode	802.11ac- 80MHz	802.11ac- 80MHz	802.11be- 80MHz
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0
<U-NR-1>														
Time up	20.10	19.00	19.00	19.00	19.00	/	19.00	19.00	17.60	17.00	/	19.00	19.00	17.00
36(S180MHz)	19.87	16.78	16.95	17.04	17.07	38(S190MHz)	16.83	16.59	15.92	15.91	42(S210MHz)	17.72	16.85	15.89
40(S200MHz)	18.89	16.98	16.99	17.01	17.02	46(S230MHz)	16.94	16.92	16.03	16.00	/	/	/	/
44(S220MHz)	18.91	17.05	17.07	17.15	17.10	/	/	/	/	/	/	/	/	/
48(S240MHz)	18.81	17.11	17.10	17.11	17.11	/	/	/	/	/	/	/	/	/
<U-NR-2A>														
Time up	19.10	18.00	18.00	18.00	18.00	/	18.00	18.00	18.00	17.00	/	18.00	18.00	17.00
52(S260MHz)	17.93	17.01	17.06	17.09	17.12	54(S270MHz)	16.78	16.20	16.91	15.94	58(S290MHz)	16.71	16.90	16.87
56(S280MHz)	17.90	16.97	17.05	17.15	17.08	62(S310MHz)	16.74	16.73	16.80	15.83	/	/	/	/
60(S300MHz)	17.89	16.89	16.85	17.07	17.06	/	/	/	/	/	/	/	/	/
64(S320MHz)	17.80	16.88	16.87	16.98	16.95	/	/	/	/	/	/	/	/	/
<U-NR-2C>														
Time up	18.10	18.00	18.00	17.00	18.00	/	18.00	18.00	18.00	17.00	/	18.00	17.00	18.00
100(S500MHz)	16.60	16.57	16.65	15.79	16.75	102(S510MHz)	16.60	16.62	16.78	15.79	106(S530MHz)	16.67	15.83	16.87
116(S580MHz)	16.50	16.57	16.59	15.82	16.76	110(S600MHz)	16.59	16.57	16.78	15.75	122(S610MHz)	16.50	15.79	16.72
124(S620MHz)	16.51	16.51	16.57	15.64	16.65	126(S630MHz)	16.51	16.55	16.62	15.68	138(S690MHz)	16.75	15.84	16.79
132(S660MHz)	16.72	16.80	16.87	15.97	17.01	134(S670MHz)	16.70	16.77	16.91	15.94	/	/	/	/
140(S700MHz)	16.53	16.62	16.58	15.71	16.75	/	/	/	/	/	/	/	/	/
<U-NR-3>														
Time up	19.60	19.50	19.50	19.50	19.50	/	19.50	19.50	19.50	19.50	/	19.50	19.50	19.50
149(S745MHz)	18.14	18.32	18.29	18.50	18.45	151(S755MHz)	18.21	18.16	18.28	18.25	155(S775MHz)	18.29	18.30	18.26
157(S785MHz)	18.21	18.40	18.41	18.57	18.56	159(S795MHz)	18.19	18.16	18.35	18.32	/	/	/	/
165(S825MHz)	18.07	18.23	18.14	18.35	18.33	/	/	/	/	/	/	/	/	/

Ant.14 - WLAN 5GHz Power Level D4/D5

Averaged Power (dBm)														
Mode	802.11a	802.11n- 20MHz	802.11ac- 20MHz	802.11ac- 20MHz	802.11be- 20MHz	Mode	802.11n- 40MHz	802.11ac- 40MHz	802.11ac- 40MHz	802.11be- 40MHz	Mode	802.11ac- 80MHz	802.11ac- 80MHz	802.11be- 80MHz
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0
<U-NR-1>														
Time up	15.60	15.50	15.50	15.50	15.50	/	15.50	15.50	15.50	15.50	/	15.50	15.50	15.50
36(S180MHz)	14.39	14.37	14.49	14.66	14.61	38(S190MHz)	14.48	14.11	14.48	14.52	42(S210MHz)	14.33	14.45	14.56
40(S200MHz)	14.50	14.57	14.63	14.53	14.57	46(S230MHz)	14.59	14.52	14.63	14.63	/	/	/	/
44(S220MHz)	14.51	14.73	14.74	14.66	14.80	/	/	/	/	/	/	/	/	/
48(S240MHz)	14.46	14.75	14.64	14.79	14.81	/	/	/	/	/	/	/	/	/
<U-NR-2A>														
Time up	19.10	18.00	18.00	18.00	18.00	/	18.00	18.00	18.00	17.00	/	18.00	18.00	17.00
52(S260MHz)	17.93	17.01	17.06	17.09	17.12	54(S270MHz)	16.78	16.20	16.91	15.94	58(S290MHz)	16.71	16.90	16.87
56(S280MHz)	17.90	16.97	17.05	17.15	17.08	62(S310MHz)	16.74	16.73	16.80	15.83	/	/	/	/
60(S300MHz)	17.89	16.89	16.85	17.07	17.06	/	/	/	/	/	/	/	/	/
64(S320MHz)	17.80	16.88	16.87	16.98	16.95	/	/	/	/	/	/	/	/	/
<U-NR-2C>														
Time up	18.10	18.00	18.00	17.00	18.00	/	18.00	18.00	18.00	17.00	/	18.00	17.00	18.00
100(S500MHz)	16.60	16.57	16.65	15.79	16.75	102(S510MHz)	16.60	16.62	16.78	15.79	106(S530MHz)	16.67	15.83	16.87
116(S580MHz)	16.50	16.57	16.59	15.82	16.76	110(S600MHz)	16.59	16.57	16.78	15.75	122(S610MHz)	16.50	15.79	16.72
124(S620MHz)	16.51	16.51	16.57	15.64	16.65	126(S630MHz)	16.51	16.55	16.62	15.68	138(S690MHz)	16.75	15.84	16.79
132(S660MHz)	16.72	16.80	16.87	15.97	17.01	134(S670MHz)	16.70	16.77	16.91	15.94	/	/	/	/
140(S700MHz)	16.53	16.62	16.58	15.71	16.75	/	/	/	/	/	/	/	/	/
<U-NR-3>														
Time up	15.10	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00	15.00	/	15.00	15.00	15.00
149(S745MHz)	13.65	13.96	13.87	14.10	14.09	151(S755MHz)	13.72	13.75	13.92	13.76	155(S775MHz)	13.80	13.90	13.88
157(S785MHz)	13.79	14.09	14.08	14.15	14.08	159(S795MHz)	13.72	13.69	13.95	13.82	/	/	/	/
165(S825MHz)	13.76	13.80	13.80	13.99	13.85	/	/	/	/	/	/	/	/	/



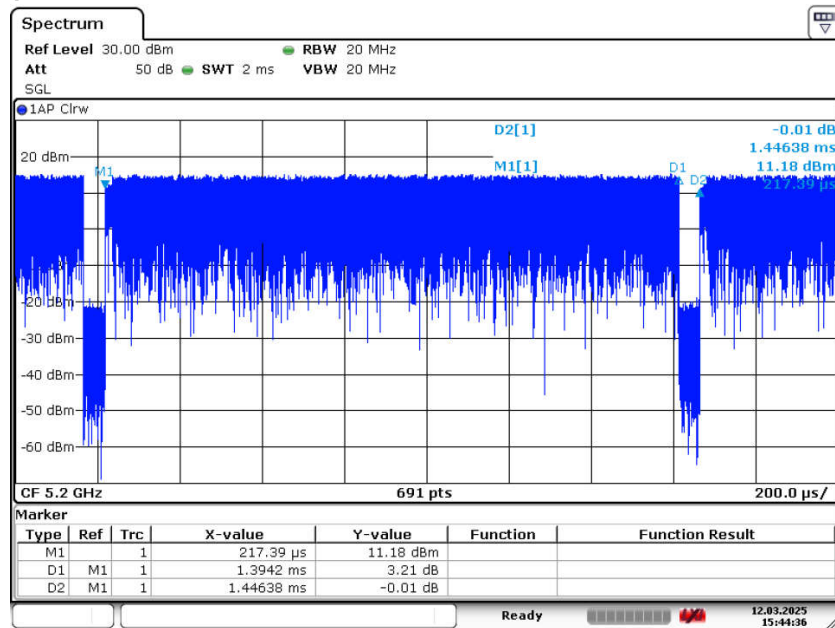
No. 25T04N000127-011-SAR

MIMO - WLAN 5GHz

Averaged Power (dBm)															
Mode	802.11a	802.11n	802.11ac	802.11ax	802.11be	Mode	802.11n	802.11ac	802.11ax	802.11be	Mode	802.11a	802.11n	802.11ac	802.11be
Channel	6Mbps	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0	Channel	MCS0	MCS0	MCS0	MCS0
<U-NI-1>															
Tune up	/	21.00	21.00	21.00	21.00	/	21.00	21.00	20.00	20.00	/	22.00	21.00	20.00	/
35(5180MHz)	/	19.96	20.03	20.17	20.19	38(5190MHz)	19.97	19.85	19.06	19.03	42(5210MHz)	20.78	19.90	18.91	/
40(5200MHz)	/	20.01	20.04	20.09	20.10	46(5230MHz)	19.92	19.92	19.03	19.00	/	/	/	/	/
44(5220MHz)	/	20.08	20.14	20.17	20.14	/	/	/	/	/	/	/	/	/	/
48(5240MHz)	/	20.06	20.11	20.17	20.15	/	/	/	/	/	/	/	/	/	/
<U-NI-2A>															
Tune up	/	21.00	21.00	21.00	21.00	/	21.00	21.00	21.00	20.00	/	21.00	21.00	21.00	/
52(5260MHz)	/	20.09	20.22	20.30	20.30	54(5270MHz)	20.01	19.76	20.17	19.12	58(5290MHz)	19.83	19.95	19.91	/
56(5280MHz)	/	20.16	20.22	20.30	20.28	62(5310MHz)	19.94	19.94	20.04	19.02	/	/	/	/	/
60(5300MHz)	/	20.06	20.08	20.24	20.24	/	/	/	/	/	/	/	/	/	/
64(5320MHz)	/	20.02	20.05	20.16	20.16	/	/	/	/	/	/	/	/	/	/
<U-NI-2C>															
Tune up	/	21.00	21.00	20.00	21.00	/	21.00	21.00	21.00	20.00	/	21.00	20.00	21.00	/
102(5550MHz)	/	19.72	19.70	18.83	19.82	102(5510MHz)	19.69	19.71	19.88	18.86	106(5530MHz)	19.74	18.89	19.88	/
116(5550MHz)	/	19.86	19.82	19.98	19.96	110(5550MHz)	19.83	19.60	19.83	19.81	122(5610MHz)	19.71	19.88	19.84	/
124(5620MHz)	/	19.72	19.78	18.87	19.85	126(5630MHz)	19.71	19.74	19.89	18.86	138(5690MHz)	19.64	18.75	19.70	/
132(5660MHz)	/	19.96	19.91	19.03	20.07	134(5670MHz)	19.78	19.79	19.97	18.94	/	/	/	/	/
140(5700MHz)	/	19.60	19.60	18.76	19.75	/	/	/	/	/	/	/	/	/	/
<U-NI-3>															
Tune up	/	22.50	22.50	22.50	22.50	/	22.50	22.50	22.50	22.50	/	22.50	22.50	22.50	/
149(5745MHz)	/	21.37	21.38	21.52	21.48	151(5755MHz)	21.31	21.27	21.40	21.39	155(5775MHz)	21.34	21.36	21.33	/
157(5785MHz)	/	21.42	21.43	21.56	21.53	159(5795MHz)	21.24	21.20	21.40	21.39	/	/	/	/	/
165(5825MHz)	/	21.39	21.35	21.50	21.46	/	/	/	/	/	/	/	/	/	/

Note: WLAN 5GHz 802.11n/11ac/11ax of Ant.12 and Ant.14 can transmit in MIMO mode and the power level in MIMO mode are equivalent to SISO mode.

Duty factor plot - 802.11a

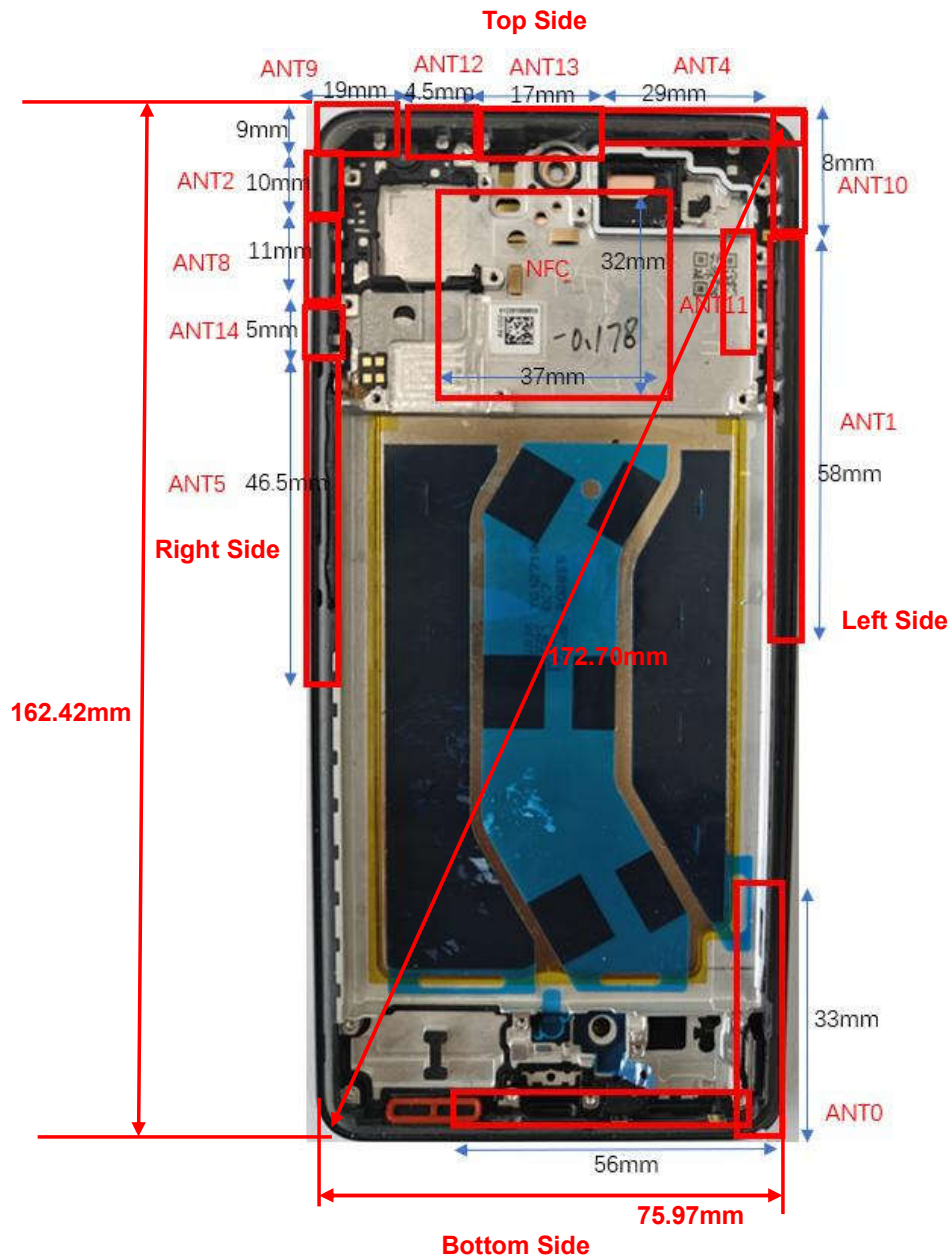


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Duty cycle = on time / total time = (1.3942 / 1.44638) * 100% = 96.40%

12. Simultaneous TX SAR Considerations

12.1. Transmit Antenna Position and Size



Picture 12.1 Antenna Locations (Back View)


Note:

Antenna	Frequency Bands
Ant.0	TX: GSM 850/900/1800/1900, WCDMA Band 1/2/4/5/6/8/19, LTE Band 1/2/3/4/5/7/8/12/13/17/18/19/20/26/28/71/66/38/39/40/41, NR n1/2/3/5/7/8/20/26/28/38/40/41/66/71
Ant.1	TX: WCDMA B5/6/8/19, LTE B1/3/4/5/7/8/12/13/17/18/19/20/26/28/38/40/41/66/71, NR n1/3/5/7/8/20/28A/38/40/41/66/71
Ant.2	DRX
Ant.4	TX: WCDMA: Band 1/2/4, LTE Band 1/2/3/4/7/66/38/40/41, NR n1/2/3/7/38/40/41/66
Ant.5	TX: LTE Band 1/3/4/38/39/40/41/66 NR n1/3/7/38/40/41/66
Ant.8	TX: NR n77/78, 2.4G WIFI Chain1, Bluetooth Chain1
Ant.9	TX: NR n77/78, GPS L1
Ant.10	TX: NR n77/78
Ant.11	TX: NR n77/78, Bluetooth Chain2
Ant.12	TX: WLAN 5GHz Chain0
Ant.13	TX: WLAN 2.4GHz Chain0, Bluetooth Chain0, GPS L5
Ant.14	TX: WLAN 5GHz Chain1

12.2. SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 25mm distance to the antennas need to be tested for SAR.

SAR measurement positions						
Antenna	Front	Rear	Left Side	Right Side	Top Side	Bottom Side
0	Yes	Yes	Yes	Yes	No	Yes
1	Yes	Yes	Yes	No	Yes	No
4	Yes	Yes	Yes	No	Yes	No
5	Yes	Yes	No	Yes	Yes	No
8	Yes	Yes	No	Yes	Yes	No
11	Yes	Yes	Yes	No	Yes	No
12	Yes	Yes	No	Yes	Yes	No
13	Yes	Yes	No	Yes	Yes	No
14	Yes	Yes	No	Yes	Yes	No

12.3. Evaluation of Simultaneous

No.	RF Exposure Conditions	Simultaneous Transmission Configuration
1	Head / Hotspot / Body-worn	WLAN 2.4GHz (chain 1) + Bluetooth (chain 0)
2		WLAN 5GHz (chain 0) + Bluetooth (chain 0)
3		WLAN 5GHz (chain 1) + Bluetooth (chain 0)
4		WLAN 5GHz MIMO + Bluetooth (chain 0)
5		WLAN 2.4GHz (chain 0) + WLAN 5GHz (chain 0)
6		WLAN 2.4GHz (chain 0) + WLAN 5GHz (chain 1)
7		WLAN 2.4GHz (chain 0) + WLAN 5GHz MIMO
8		WLAN 2.4GHz (chain 1) + WLAN 5GHz (chain 0)
9		WLAN 2.4GHz (chain 1) + WLAN 5GHz MIMO
10		WLAN 2.4GHz MIMO + WLAN 5GHz (chain 0)
11		WLAN 2.4GHz MIMO + WLAN 5GHz MIMO
12		WLAN 2.4GHz (chain 1) + WLAN 5GHz (chain 0) + Bluetooth (chain 0)
13		WLAN 2.4GHz (chain 1) + WLAN 5GHz MIMO + Bluetooth (chain 0)
14		WWAN + WLAN 2.4GHz (chain 0)
15		WWAN + WLAN 2.4GHz (chain 1)
16		WWAN + WLAN 2.4GHz MIMO
17		WWAN + WLAN 5GHz (chain 0)
18		WWAN + WLAN 5GHz (chain 1)
19		WWAN + WLAN 5GHz MIMO
20		WWAN + BT
21		WWAN + WLAN 2.4GHz (chain 1) + Bluetooth (chain 0)
22		WWAN + WLAN 5GHz (chain 0) + Bluetooth (chain 0)
23		WWAN + WLAN 5GHz (chain 1) + Bluetooth (chain 0)
24		WWAN + WLAN 5GHz MIMO + Bluetooth (chain 0)
25		WWAN + WLAN 2.4GHz (chain 0) + WLAN 5GHz (chain 0)
26		WWAN + WLAN 2.4GHz (chain 0) + WLAN 5GHz (chain 1)
27		WWAN + WLAN 2.4GHz (chain 0) + WLAN 5GHz MIMO
28		WWAN + WLAN 2.4GHz (chain 1) + WLAN 5GHz (chain 0)
29		WWAN + WLAN 2.4GHz (chain 1) + WLAN 5GHz MIMO
30		WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz (chain 0)
31		WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz MIMO
32		WWAN + WLAN 2.4GHz (chain 1) + WLAN 5GHz (chain 0) + Bluetooth (chain 0)
33		WWAN + WLAN 2.4GHz (chain 1) + WLAN 5GHz MIMO + Bluetooth (chain 0)



No.	RF Exposure Conditions	Simultaneous Transmission Configuration
34	Extremity	WLAN 2.4GHz (chain 1) + Bluetooth (chain 0) + NFC
35		WLAN 5GHz (chain 0) + Bluetooth (chain 0) + NFC
36		WLAN 5GHz (chain 1) + Bluetooth (chain 0) + NFC
37		WLAN 5GHz MIMO + Bluetooth (chain 0) + NFC
38		WLAN 2.4GHz (chain 0) + WLAN 5GHz (chain 0) + NFC
39		WLAN 2.4GHz (chain 0) + WLAN 5GHz (chain 1) + NFC
40		WLAN 2.4GHz (chain 0) + WLAN 5GHz MIMO + NFC
41		WLAN 2.4GHz (chain 1) + WLAN 5GHz (chain 0) + NFC
42		WLAN 2.4GHz (chain 1) + WLAN 5GHz MIMO + NFC
43		WLAN 2.4GHz MIMO + WLAN 5GHz (chain 0) + NFC
44		WLAN 2.4GHz MIMO + WLAN 5GHz MIMO + NFC
45		WLAN 2.4GHz (chain 1) + WLAN 5GHz (chain 0) + Bluetooth (chain 0) + NFC
46		WLAN 2.4GHz (chain 1) + WLAN 5GHz MIMO + Bluetooth (chain 0) + NFC
47		WWAN + WLAN 2.4GHz (chain 0) + NFC
48		WWAN + WLAN 2.4GHz (chain 1) + NFC
49		WWAN + WLAN 2.4GHz MIMO + NFC
50		WWAN + WLAN 5GHz (chain 0) + NFC
51		WWAN + WLAN 5GHz (chain 1) + NFC
52		WWAN + WLAN 5GHz MIMO + NFC
53		WWAN + BT + NFC
54		WWAN + WLAN 2.4GHz (chain 1) + Bluetooth (chain 0) + NFC
55		WWAN + WLAN 5GHz (chain 0) + Bluetooth (chain 0) + NFC
56		WWAN + WLAN 5GHz (chain 1) + Bluetooth (chain 0) + NFC
57		WWAN + WLAN 5GHz MIMO + Bluetooth (chain 0) + NFC
58		WWAN + WLAN 2.4GHz (chain 0) + WLAN 5GHz (chain 0) + NFC
59		WWAN + WLAN 2.4GHz (chain 0) + WLAN 5GHz (chain 1) + NFC
60		WWAN + WLAN 2.4GHz (chain 0) + WLAN 5GHz MIMO + NFC
61		WWAN + WLAN 2.4GHz (chain 1) + WLAN 5GHz (chain 0) + NFC
62		WWAN + WLAN 2.4GHz (chain 1) + WLAN 5GHz MIMO + NFC
63		WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz (chain 0) + NFC
64		WWAN + WLAN 2.4GHz MIMO + WLAN 5GHz MIMO + NFC
65		WWAN + WLAN 2.4GHz (chain 1) + WLAN 5GHz (chain 0) + Bluetooth (chain 0) + NFC
66		WWAN + WLAN 2.4GHz (chain 1) + WLAN 5GHz MIMO + Bluetooth (chain 0) + NFC

**Table 12.1: Maximum Simultaneous Transmission SAR**

/	Position	Sum (W/kg)
Highest reported SAR value for Head	Left Cheek (LTE B38 + Bluetooth(chain 0) + WLAN 2.4GHz(chain 1) + WLAN 5GHz(chain 0) + WLAN 5GHz(chain 1))	1.58
	Left Cheek (LTE B38 + Bluetooth(chain 0))	1.14
Highest reported SAR value for Hotspot	Right Side (NRn41 + Bluetooth(chain 0) + WLAN 2.4GHz(chain 1) + WLAN 5GHz(chain 0) + WLAN 5GHz(chain 1))	1.55
	Right Side (NRn41 + Bluetooth(chain 2))	1.25
Highest reported SAR value for Body-worn	Rear Side (WCDMA B5 + WLAN 2.4GHz(chain 0) + WLAN 2.4GHz(chain 1) + WLAN 5GHz(chain 0) + WLAN 5GHz(chain 1))	1.28
	Rear Side (WCDMA B5 + Bluetooth(chain 1))	0.56

Note: The test positions of above tables are for the worse case that has been evaluated.

Conclusion:

According to the above tables, the sum of reported SAR values is less than limit. So the simultaneous transmission SAR with volume scans is not required.



13. Summary of Test Results

According to the client's decision rule in the test registration form, which is "based on the measurement results as the basis of the conformity statement", the test conclusion of this report meets the limit requirements.

The calculated SAR is obtained by the following formula:

$$\text{Calculated SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where P_{Target} is the power of manufacturing upper limit;

P_{Measured} is the measured power in chapter 11.

General Note:

1. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

a. WLAN5GHz U-NII-2A and U-NII-2C tested the product specific 10g SAR since it has no hotspot mode.

b. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.

2. The device support dual SIMs, SIM1 was used for the all configuration SAR testing and SIM2 test the worst case SAR of SIM1.

Duty Cycle

Mode	Duty Cycle
GPRS	1:4 / 1:2
WCDMA	1:1
FDD_LTE	1:1
TDD_LTE	1:1.58 / 1:2.31
NR FR1	1:1
Bluetooth	1:1.31
WLAN 2.4GHz	1:1.02
WLAN 5GHz	1:1.04



No. 25T04N000127-011-SAR

13.1. Testing Environment

Temperature:	18°C~25°C
Relative humidity:	30%~70%
Ambient noise & Reflection:	< 0.012 W/kg



13.2. Test Results

Table 12.1: GSM 850 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	GSM 850	251	848.8	GPRS(2TX)	Left Cheek	0mm	\	1	30.09	31.50	0.145	0.20	0.115	0.16	-0.04
0	DSI 2/4	Head	GSM 850	251	848.8	GPRS(2TX)	Left Tilt	0mm	\	\	30.09	31.50	0.091	0.13	0.066	0.09	0.05
0	DSI 2/4	Head	GSM 850	251	848.8	GPRS(2TX)	Right Cheek	0mm	\	\	30.09	31.50	0.142	0.20	0.102	0.00	0.02
0	DSI 2/4	Head	GSM 850	251	848.8	GPRS(2TX)	Right Tilt	0mm	\	\	30.09	31.50	0.080	0.11	0.059	0.08	0.11
0	DSI 1/3	Hotspot	GSM 850	251	848.8	GPRS(2TX)	Front	10mm	\	\	30.09	31.50	0.238	0.33	0.158	0.22	0.18
0	DSI 1/3	Hotspot	GSM 850	251	848.8	GPRS(2TX)	Rear	10mm	\	2	30.09	31.50	0.312	0.43	0.195	0.27	-0.05
0	DSI 1/3	Hotspot	GSM 850	251	848.8	GPRS(2TX)	Left	10mm	\	\	30.09	31.50	0.085	0.12	0.052	0.07	-0.02
0	DSI 1/3	Hotspot	GSM 850	251	848.8	GPRS(2TX)	Right	10mm	\	\	30.09	31.50	0.067	0.09	0.043	0.06	-0.13
0	DSI 1/3	Hotspot	GSM 850	251	848.8	GPRS(2TX)	Bottom	10mm	\	\	30.09	31.50	0.171	0.24	0.103	0.14	0.13
0	DSI 1/3	Body-Worn	GSM 850	251	848.8	GPRS(2TX)	Front	15mm	\	\	30.09	31.50	0.150	0.21	0.100	0.14	-0.08
0	DSI 1/3	Body-Worn	GSM 850	251	848.8	GPRS(2TX)	Rear	15mm	\	\	30.09	31.50	0.201	0.28	0.131	0.18	0.01

Table 12.2: GSM 1900 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	GSM 1900	512	1850.2	GPRS(4TX)	Left Cheek	0mm	\	\	24.27	25.50	0.023	0.03	0.014	0.02	0.05
0	DSI 2/4	Head	GSM 1900	512	1850.2	GPRS(4TX)	Left Tilt	0mm	\	\	24.27	25.50	0.009	0.01	0.004	0.01	0.10
0	DSI 2/4	Head	GSM 1900	512	1850.2	GPRS(4TX)	Right Cheek	0mm	\	3	24.27	25.50	0.044	0.06	0.028	0.04	0.02
0	DSI 2/4	Head	GSM 1900	512	1850.2	GPRS(4TX)	Right Tilt	0mm	\	\	24.27	25.50	0.012	0.02	0.005	0.01	0.08
0	DSI 1/3	Hotspot	GSM 1900	512	1850.2	GPRS(4TX)	Front	10mm	\	\	23.61	24.75	0.138	0.18	0.075	0.10	0.03
0	DSI 1/3	Hotspot	GSM 1900	512	1850.2	GPRS(4TX)	Rear	10mm	\	\	23.61	24.75	0.193	0.25	0.099	0.13	-0.05
0	DSI 1/3	Hotspot	GSM 1900	512	1850.2	GPRS(4TX)	Left	10mm	\	\	23.61	24.75	0.051	0.07	0.030	0.04	0.02
0	DSI 1/3	Hotspot	GSM 1900	512	1850.2	GPRS(4TX)	Right	10mm	\	\	23.61	24.75	0.013	0.02	0.006	0.01	0.09
0	DSI 1/3	Hotspot	GSM 1900	512	1850.2	GPRS(4TX)	Bottom	10mm	\	4	23.61	24.75	0.391	0.51	0.212	0.28	0.17
0	DSI 1/3	Body-Worn	GSM 1900	512	1850.2	GPRS(4TX)	Front	15mm	\	\	23.61	24.75	0.101	0.13	0.062	0.08	-0.03
0	DSI 1/3	Body-Worn	GSM 1900	512	1850.2	GPRS(4TX)	Rear	15mm	\	\	23.61	24.75	0.131	0.17	0.076	0.10	-0.09

Table 12.3: WCDMA Band 2 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	WCDMA Band 2	9538	1907.6	RMC	Left Cheek	0mm	\	\	23.63	24.00	0.071	0.08	0.044	0.05	-0.16
0	DSI 2/4	Head	WCDMA Band 2	9538	1907.6	RMC	Left Tilt	0mm	\	\	23.63	24.00	0.047	0.05	0.028	0.03	0.12
0	DSI 2/4	Head	WCDMA Band 2	9538	1907.6	RMC	Right Cheek	0mm	\	\	23.63	24.00	0.100	0.11	0.058	0.06	-0.02
0	DSI 2/4	Head	WCDMA Band 2	9538	1907.6	RMC	Right Tilt	0mm	\	\	23.63	24.00	0.045	0.05	0.027	0.03	-0.03
0	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Front	10mm	\	\	21.61	22.00	0.307	0.34	0.185	0.20	-0.13
0	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Rear	10mm	\	\	21.61	22.00	0.361	0.39	0.202	0.22	0.17
0	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Left	10mm	\	\	21.61	22.00	0.067	0.07	0.041	0.04	0.07
0	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Right	10mm	\	\	21.61	22.00	0.052	0.06	0.031	0.03	-0.02
0	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Bottom	10mm	\	6	21.61	22.00	0.868	0.95	0.477	0.52	0.16
0	DSI 1/3	Hotspot	WCDMA Band 2	9400	1880.0	RMC	Bottom	10mm	\	\	21.52	22.00	0.827	0.92	0.459	0.51	0.17
0	DSI 1/3	Hotspot	WCDMA Band 2	9262	1852.4	RMC	Bottom	10mm	\	\	21.49	22.00	0.840	0.94	0.472	0.53	-0.09
0	DSI 1/3	Body-Worn	WCDMA Band 2	9538	1907.6	RMC	Front	15mm	\	\	21.61	22.00	0.179	0.20	0.110	0.12	0.10
0	DSI 1/3	Body-Worn	WCDMA Band 2	9538	1907.6	RMC	Rear	15mm	\	\	21.61	22.00	0.268	0.29	0.163	0.18	0.05
4	DSI 2	Head	WCDMA Band 2	9538	1907.6	RMC	Left Cheek	0mm	\	\	18.14	19.00	0.350	0.43	0.234	0.29	0.11
4	DSI 2	Head	WCDMA Band 2	9538	1907.6	RMC	Left Tilt	0mm	\	\	18.14	19.00	0.323	0.39	0.199	0.24	0.13
4	DSI 2	Head	WCDMA Band 2	9538	1907.6	RMC	Right Cheek	0mm	\	\	18.14	19.00	0.806	0.98	0.422	0.51	0.10
4	DSI 2	Head	WCDMA Band 2	9538	1907.6	RMC	Right Tilt	0mm	\	\	18.14	19.00	0.543	0.66	0.288	0.35	-0.15
4	DSI 2	Head	WCDMA Band 2	9400	1880.0	RMC	Right Cheek	0mm	\	\	18.06	19.00	0.853	1.06	0.449	0.56	-0.19
4	DSI 2	Head	WCDMA Band 2	9262	1852.4	RMC	Right Cheek	0mm	\	5	18.09	19.00	0.912	1.12	0.482	0.59	0.00
4	DSI 4	Head	WCDMA Band 2	9538	1907.6	RMC	Left Cheek	0mm	\	\	16.13	17.00	0.220	0.27	0.145	0.18	-0.16
4	DSI 4	Head	WCDMA Band 2	9538	1907.6	RMC	Left Tilt	0mm	\	\	16.13	17.00	0.203	0.25	0.123	0.15	-0.13
4	DSI 4	Head	WCDMA Band 2	9538	1907.6	RMC	Right Cheek	0mm	\	\	16.13	17.00	0.506	0.62	0.262	0.32	-0.13
4	DSI 4	Head	WCDMA Band 2	9538	1907.6	RMC	Right Tilt	0mm	\	\	16.13	17.00	0.341	0.42	0.179	0.22	-0.13
4	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Front	10mm	\	\	20.70	21.50	0.348	0.42	0.212	0.25	-0.17
4	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Rear	10mm	\	\	20.70	21.50	0.419	0.50	0.257	0.31	-0.04
4	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Left	10mm	\	\	20.70	21.50	0.287	0.35	0.168	0.20	-0.17
4	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Top	10mm	\	\	20.70	21.50	0.481	0.58	0.286	0.34	-0.04
4	DSI 1/3	Body-Worn	WCDMA Band 2	9538	1907.6	RMC	Front	15mm	\	\	20.70	21.50	0.176	0.21	0.106	0.13	-0.06
4	DSI 1/3	Body-Worn	WCDMA Band 2	9538	1907.6	RMC	Rear	15mm	\	\	20.70	21.50	0.196	0.24	0.119	0.14	-0.02



Table 12.4: WCDMA Band 4 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	WCDMA Band 4	1413	1732.6	RMC	Left Cheek	0mm	\	\	24.46	25.00	0.077	0.09	0.049	0.06	-0.16
0	DSI 2/4	Head	WCDMA Band 4	1413	1732.6	RMC	Left Tilt	0mm	\	\	24.46	25.00	0.057	0.06	0.353	0.40	-0.11
0	DSI 2/4	Head	WCDMA Band 4	1413	1732.6	RMC	Right Cheek	0mm	\	\	24.46	25.00	0.105	0.12	0.063	0.07	-0.10
0	DSI 2/4	Head	WCDMA Band 4	1413	1732.6	RMC	Right Tilt	0mm	\	\	24.46	25.00	0.065	0.07	0.039	0.04	-0.09
0	DSI 1/3	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Front	10mm	\	\	22.40	23.00	0.248	0.28	0.139	0.16	0.05
0	DSI 1/3	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Rear	10mm	\	\	22.40	23.00	0.310	0.36	0.165	0.19	-0.06
0	DSI 1/3	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Left	10mm	\	\	22.40	23.00	0.107	0.12	0.060	0.07	0.02
0	DSI 1/3	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Right	10mm	\	\	22.40	23.00	0.052	0.06	0.030	0.03	-0.11
0	DSI 1/3	Hotspot	WCDMA Band 4	1413	1732.6	RMC	Bottom	10mm	\	\	22.40	23.00	0.794	0.91	0.408	0.47	0.07
0	DSI 1/3	Hotspot	WCDMA Band 4	1513	1752.6	RMC	Bottom	10mm	\	8	22.32	23.00	0.882	1.03	0.486	0.57	0.13
0	DSI 1/3	Hotspot	WCDMA Band 4	1312	1712.4	RMC	Bottom	10mm	\	\	22.35	23.00	0.680	0.79	0.356	0.41	0.02
0	DSI 1/3	Body-Worn	WCDMA Band 4	1413	1732.6	RMC	Front	15mm	\	\	22.40	23.00	0.141	0.16	0.082	0.09	0.15
0	DSI 1/3	Body-Worn	WCDMA Band 4	1413	1732.6	RMC	Rear	15mm	\	\	22.40	23.00	0.221	0.25	0.135	0.16	-0.01
4	DSI 2/4	Head	WCDMA Band 4	1312	1712.4	RMC	Left Cheek	0mm	\	\	19.24	19.50	0.319	0.34	0.215	0.23	0.13
4	DSI 2/4	Head	WCDMA Band 4	1312	1712.4	RMC	Left Tilt	0mm	\	\	19.24	19.50	0.287	0.30	0.189	0.20	0.00
4	DSI 2/4	Head	WCDMA Band 4	1312	1712.4	RMC	Right Cheek	0mm	\	7	19.24	19.50	0.673	0.71	0.367	0.39	0.00
4	DSI 2/4	Head	WCDMA Band 4	1312	1712.4	RMC	Right Tilt	0mm	\	\	19.24	19.50	0.427	0.45	0.249	0.26	0.01
4	DSI 1/3	Hotspot	WCDMA Band 4	1312	1712.4	RMC	Front	10mm	\	\	20.75	21.00	0.138	0.15	0.091	0.10	0.09
4	DSI 1/3	Hotspot	WCDMA Band 4	1312	1712.4	RMC	Rear	10mm	\	\	20.75	21.00	0.177	0.19	0.123	0.13	-0.09
4	DSI 1/3	Hotspot	WCDMA Band 4	1312	1712.4	RMC	Left	10mm	\	\	20.75	21.00	0.123	0.13	0.075	0.08	0.12
4	DSI 1/3	Hotspot	WCDMA Band 4	1312	1712.4	RMC	Top	10mm	\	\	20.75	21.00	0.341	0.36	0.205	0.22	0.10
4	DSI 1/3	Body-Worn	WCDMA Band 4	1312	1712.4	RMC	Front	15mm	\	\	20.75	21.00	0.091	0.10	0.060	0.06	0.17
4	DSI 1/3	Body-Worn	WCDMA Band 4	1312	1712.4	RMC	Rear	15mm	\	\	20.75	21.00	0.105	0.11	0.068	0.07	-0.04

Table 12.5: WCDMA Band 5 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	WCDMA Band 5	4132	826.4	RMC	Left Cheek	0mm	\	\	24.20	24.80	0.107	0.12	0.078	0.09	-0.09
0	DSI 2/4	Head	WCDMA Band 5	4132	826.4	RMC	Left Tilt	0mm	\	\	24.20	24.80	0.068	0.08	0.050	0.06	-0.02
0	DSI 2/4	Head	WCDMA Band 5	4132	826.4	RMC	Right Cheek	0mm	\	\	24.20	24.80	0.106	0.12	0.075	0.09	-0.10
0	DSI 2/4	Head	WCDMA Band 5	4132	826.4	RMC	Right Tilt	0mm	\	\	24.20	24.80	0.059	0.07	0.042	0.05	0.03
0	DSI 1/3	Hotspot	WCDMA Band 5	4132	826.4	RMC	Front	10mm	\	\	24.20	24.80	0.180	0.21	0.116	0.13	0.03
0	DSI 1/3	Hotspot	WCDMA Band 5	4132	826.4	RMC	Rear	10mm	\	\	24.20	24.80	0.239	0.27	0.150	0.17	-0.04
0	DSI 1/3	Hotspot	WCDMA Band 5	4132	826.4	RMC	Left	10mm	\	\	24.20	24.80	0.082	0.09	0.055	0.06	0.02
0	DSI 1/3	Hotspot	WCDMA Band 5	4132	826.4	RMC	Right	10mm	\	\	24.20	24.80	0.070	0.08	0.044	0.05	0.01
0	DSI 1/3	Hotspot	WCDMA Band 5	4132	826.4	RMC	Bottom	10mm	\	\	24.20	24.80	0.140	0.16	0.079	0.09	-0.05
0	DSI 1/3	Body-Worn	WCDMA Band 5	4132	826.4	RMC	Front	15mm	\	\	24.20	24.80	0.107	0.12	0.077	0.09	0.05
0	DSI 1/3	Body-Worn	WCDMA Band 5	4132	826.4	RMC	Rear	15mm	\	\	24.20	24.80	0.131	0.15	0.089	0.10	0.02
1	DSI 2/4	Head	WCDMA Band 5	4183	836.6	RMC	Left Cheek	0mm	\	\	20.67	21.30	0.300	0.35	0.196	0.23	-0.03
1	DSI 2/4	Head	WCDMA Band 5	4183	836.6	RMC	Left Tilt	0mm	\	\	20.67	21.30	0.147	0.17	0.095	0.11	0.11
1	DSI 2/4	Head	WCDMA Band 5	4183	836.6	RMC	Right Cheek	0mm	\	9	20.67	21.30	0.644	0.74	0.352	0.41	-0.06
1	DSI 2/4	Head	WCDMA Band 5	4183	836.6	RMC	Right Tilt	0mm	\	\	20.67	21.30	0.213	0.25	0.129	0.15	0.02
1	DSI 1/3	Hotspot	WCDMA Band 5	4183	836.6	RMC	Front	10mm	\	\	24.22	24.80	0.513	0.59	0.319	0.36	-0.04
1	DSI 1/3	Hotspot	WCDMA Band 5	4183	836.6	RMC	Rear	10mm	\	\	24.22	24.80	0.744	0.85	0.450	0.51	-0.08
1	DSI 1/3	Hotspot	WCDMA Band 5	4183	836.6	RMC	Left	10mm	\	\	24.22	24.80	0.783	0.89	0.432	0.49	0.15
1	DSI 1/3	Hotspot	WCDMA Band 5	4183	836.6	RMC	Top	10mm	\	\	24.22	24.80	0.081	0.09	0.053	0.06	0.16
1	DSI 1/3	Hotspot	WCDMA Band 5	4233	846.6	RMC	Rear	10mm	\	\	24.14	24.80	0.750	0.87	0.448	0.52	-0.10
1	DSI 1/3	Hotspot	WCDMA Band 5	4132	826.4	RMC	Rear	10mm	\	\	24.11	24.80	0.741	0.87	0.443	0.52	-0.10
1	DSI 1/3	Hotspot	WCDMA Band 5	4233	846.6	RMC	Left	10mm	\	\	24.14	24.80	0.771	0.90	0.411	0.48	0.13
1	DSI 1/3	Hotspot	WCDMA Band 5	4132	826.4	RMC	Left	10mm	\	10	24.11	24.80	0.818	0.96	0.447	0.52	0.00
1	DSI 1/3	Body-Worn	WCDMA Band 5	4183	836.6	RMC	Front	15mm	\	\	24.22	24.80	0.298	0.34	0.189	0.22	0.11
1	DSI 1/3	Body-Worn	WCDMA Band 5	4183	836.6	RMC	Rear	15mm	\	\	24.22	24.80	0.421	0.48	0.266	0.30	-0.07
1	DSI 1/3	Body-Worn	WCDMA Band 5	4183	836.6	RMC	Rear	15mm	SIM2	\	24.22	24.80	0.415	0.47	0.257	0.29	0.02



Table 12.6: LTE Band 2 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	LTE Band 2	19100	1910.0	1RB0	Left Cheek	0mm	\	\	23.62	24.00	0.068	0.07	0.042	0.05	-0.03
0	DSI 2/4	Head	LTE Band 2	18900	1880.0	50RB0	Left Cheek	0mm	\	\	22.30	23.00	0.057	0.07	0.036	0.04	-0.06
0	DSI 2/4	Head	LTE Band 2	19100	1910.0	1RB0	Left Tilt	0mm	\	\	23.62	24.00	0.052	0.06	0.031	0.03	0.18
0	DSI 2/4	Head	LTE Band 2	18900	1880.0	50RB0	Left Tilt	0mm	\	\	22.30	23.00	0.014	0.02	0.006	0.01	0.06
0	DSI 2/4	Head	LTE Band 2	19100	1910.0	1RB0	Right Cheek	0mm	\	\	23.62	24.00	0.101	0.11	0.060	0.07	-0.11
0	DSI 2/4	Head	LTE Band 2	18900	1880.0	50RB0	Right Cheek	0mm	\	\	22.30	23.00	0.084	0.10	0.049	0.06	0.05
0	DSI 2/4	Head	LTE Band 2	19100	1910.0	1RB0	Right Tilt	0mm	\	\	23.62	24.00	0.051	0.06	0.030	0.03	0.08
0	DSI 2/4	Head	LTE Band 2	18900	1880.0	50RB0	Right Tilt	0mm	\	\	22.30	23.00	0.044	0.05	0.026	0.03	-0.08
0	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB0	Front	10mm	\	\	19.84	20.50	0.202	0.24	0.113	0.13	0.01
0	DSI 1/3	Hotspot	LTE Band 2	18900	1880.0	50RB0	Front	10mm	\	\	19.79	20.50	0.203	0.24	0.116	0.14	-0.05
0	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB0	Rear	10mm	\	\	19.84	20.50	0.263	0.31	0.135	0.16	0.13
0	DSI 1/3	Hotspot	LTE Band 2	18900	1880.0	50RB0	Rear	10mm	\	\	19.79	20.50	0.257	0.30	0.133	0.16	0.02
0	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB0	Left	10mm	\	\	19.84	20.50	0.059	0.07	0.034	0.04	-0.03
0	DSI 1/3	Hotspot	LTE Band 2	18900	1880.0	50RB0	Left	10mm	\	\	19.79	20.50	0.061	0.07	0.035	0.04	0.06
0	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB0	Right	10mm	\	\	19.84	20.50	0.042	0.05	0.024	0.03	0.12
0	DSI 1/3	Hotspot	LTE Band 2	18900	1880.0	50RB0	Right	10mm	\	\	19.79	20.50	0.050	0.06	0.027	0.03	0.04
0	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB0	Bottom	10mm	\	\	19.84	20.50	0.520	0.61	0.270	0.31	-0.03
0	DSI 1/3	Hotspot	LTE Band 2	18900	1880.0	50RB0	Bottom	10mm	\	12	19.79	20.50	0.548	0.65	0.295	0.35	-0.02
0	DSI 1/3	Body-Worn	LTE Band 2	19100	1910.0	1RB0	Front	15mm	\	\	19.84	20.50	0.109	0.13	0.064	0.07	-0.02
0	DSI 1/3	Body-Worn	LTE Band 2	18900	1880.0	50RB0	Front	15mm	\	\	19.79	20.50	0.105	0.12	0.062	0.07	-0.03
0	DSI 1/3	Body-Worn	LTE Band 2	19100	1910.0	1RB0	Rear	15mm	\	\	19.84	20.50	0.134	0.16	0.075	0.09	0.15
0	DSI 1/3	Body-Worn	LTE Band 2	18900	1880.0	50RB0	Rear	15mm	\	\	19.79	20.50	0.152	0.18	0.089	0.11	0.18
4	DSI 2	Head	LTE Band 2	19100	1910.0	1RB99	Left Cheek	0mm	\	\	18.26	18.50	0.412	0.44	0.281	0.30	-0.08
4	DSI 2	Head	LTE Band 2	19100	1910.0	50RB0	Left Cheek	0mm	\	\	18.17	18.50	0.425	0.46	0.289	0.31	0.02
4	DSI 2	Head	LTE Band 2	19100	1910.0	1RB99	Left Tilt	0mm	\	\	18.26	18.50	0.421	0.44	0.259	0.27	-0.04
4	DSI 2	Head	LTE Band 2	19100	1910.0	50RB0	Left Tilt	0mm	\	\	18.17	18.50	0.442	0.48	0.274	0.30	-0.02
4	DSI 2	Head	LTE Band 2	19100	1910.0	1RB99	Right Cheek	0mm	\	\	18.26	18.50	0.952	1.01	0.513	0.54	-0.07
4	DSI 2	Head	LTE Band 2	19100	1910.0	50RB0	Right Cheek	0mm	\	\	18.17	18.50	0.988	1.07	0.532	0.57	0.09
4	DSI 2	Head	LTE Band 2	19100	1910.0	1RB99	Right Tilt	0mm	\	\	18.26	18.50	0.630	0.67	0.350	0.37	-0.02
4	DSI 2	Head	LTE Band 2	19100	1910.0	50RB0	Right Tilt	0mm	\	\	18.17	18.50	0.642	0.69	0.358	0.39	0.10
4	DSI 2	Head	LTE Band 2	18900	1880.0	1RB99	Right Cheek	0mm	\	\	18.22	18.50	0.988	1.05	0.531	0.57	0.13
4	DSI 2	Head	LTE Band 2	18700	1860.0	1RB99	Right Cheek	0mm	\	\	18.21	18.50	1.050	1.12	0.566	0.61	0.02
4	DSI 2	Head	LTE Band 2	18900	1880.0	50RB0	Right Cheek	0mm	\	\	18.15	18.50	1.020	1.11	0.545	0.59	-0.09
4	DSI 2	Head	LTE Band 2	18700	1860.0	50RB0	Right Cheek	0mm	\	11	18.12	18.50	1.060	1.16	0.570	0.62	0.11
4	DSI 2	Head	LTE Band 2	18900	1880.0	100RB	Right Cheek	0mm	\	\	18.14	18.50	1.010	1.10	0.539	0.59	-0.14
4	DSI 4	Head	LTE Band 2	19100	1910.0	1RB99	Left Cheek	0mm	\	\	16.18	16.50	0.259	0.28	0.173	0.19	-0.14
4	DSI 4	Head	LTE Band 2	19100	1910.0	50RB0	Left Cheek	0mm	\	\	16.15	16.50	0.267	0.29	0.178	0.19	0.14
4	DSI 4	Head	LTE Band 2	19100	1910.0	1RB99	Left Tilt	0mm	\	\	16.18	16.50	0.265	0.29	0.159	0.17	0.06
4	DSI 4	Head	LTE Band 2	19100	1910.0	50RB0	Left Tilt	0mm	\	\	16.15	16.50	0.278	0.30	0.168	0.18	-0.06
4	DSI 4	Head	LTE Band 2	19100	1910.0	1RB99	Right Cheek	0mm	\	\	16.18	16.50	0.598	0.64	0.315	0.34	-0.11
4	DSI 4	Head	LTE Band 2	19100	1910.0	50RB0	Right Cheek	0mm	\	\	16.15	16.50	0.621	0.67	0.327	0.35	0.10
4	DSI 4	Head	LTE Band 2	19100	1910.0	1RB99	Right Tilt	0mm	\	\	16.18	16.50	0.396	0.43	0.215	0.23	-0.12
4	DSI 4	Head	LTE Band 2	19100	1910.0	50RB0	Right Tilt	0mm	\	\	16.15	16.50	0.404	0.44	0.220	0.24	0.06
4	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB99	Front	10mm	\	\	20.71	21.00	0.341	0.36	0.196	0.21	-0.05
4	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	50RB0	Front	10mm	\	\	20.65	21.00	0.358	0.39	0.204	0.22	0.12
4	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB99	Rear	10mm	\	\	20.71	21.00	0.422	0.45	0.240	0.26	0.03
4	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	50RB0	Rear	10mm	\	\	20.65	21.00	0.413	0.45	0.239	0.26	0.11
4	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB99	Left	10mm	\	\	20.71	21.00	0.312	0.33	0.170	0.18	0.02
4	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	50RB0	Left	10mm	\	\	20.65	21.00	0.318	0.34	0.175	0.19	-0.01
4	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	1RB99	Top	10mm	\	\	20.71	21.00	0.448	0.48	0.248	0.27	0.06
4	DSI 1/3	Hotspot	LTE Band 2	19100	1910.0	50RB0	Top	10mm	\	\	20.65	21.00	0.520	0.56	0.271	0.29	0.03
4	DSI 1/3	Body-Worn	LTE Band 2	19100	1910.0	1RB99	Front	15mm	\	\	20.71	21.00	0.214	0.23	0.133	0.14	-0.08
4	DSI 1/3	Body-Worn	LTE Band 2	19100	1910.0	50RB0	Front	15mm	\	\	20.65	21.00	0.209	0.23	0.132	0.14	-0.19
4	DSI 1/3	Body-Worn	LTE Band 2	19100	1910.0	1RB99	Rear	15mm	\	\	20.71	21.00	0.228	0.24	0.144	0.15	-0.01
4	DSI 1/3	Body-Worn	LTE Band 2	19100	1910.0	50RB0	Rear	15mm	\	\	20.65	21.00	0.240	0.26	0.152	0.16	-0.18



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Table 12.7: LTE Band 7 SAR Values

ANT	Power Level	# Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Modems	Test Position	Distance	Note	Figure No.	Calculated SAR 1g (W/kg)	Measured SAR 1g (W/kg)	Calculated SAR 10g (W/kg)	Measured SAR 10g (W/kg)	Power Dens.		
0	DB 24	Head	LTE Band 7	21300	2560.0	RR99	Left Cheek	0mm	✓	✓	23.64	24.00	0.169	0.075	0.08	-0.09	
0	DB 24	Head	LTE Band 7	21300	2560.0	RR99	Left Cheek	0mm	✓	✓	22.55	23.00	0.128	0.14	0.061	0.07	-0.05
0	DB 24	Head	LTE Band 7	21300	2560.0	RR99	Left Tilt	0mm	✓	✓	23.64	24.00	0.169	0.075	0.08	0.03	0.02
0	DB 24	Head	LTE Band 7	21300	2560.0	RR99	Left Tilt	0mm	✓	✓	22.55	23.00	0.015	0.02	0.007	0.01	-0.06
0	DB 24	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	23.64	24.00	0.071	0.08	0.037	0.04	-0.03
0	DB 24	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	22.55	23.00	0.053	0.06	0.029	0.03	0.07
0	DB 24	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	23.64	24.00	0.077	0.08	0.039	0.04	0.07
0	DB 24	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	22.55	23.00	0.058	0.06	0.029	0.03	0.12
0	DB 2	Head	LTE Band 7	21300	2560.0	LLCA	Left Cheek	0mm	CA, TC	✓	23.49	24.00	0.146	0.16	0.070	0.08	0.03
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Front	10mm	✓	✓	22.62	23.00	0.267	0.28	0.136	0.15	0.12
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Front	10mm	✓	✓	22.62	23.00	0.378	0.39	0.138	0.16	0.06
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Rear	10mm	✓	✓	22.62	23.00	0.303	0.33	0.163	0.18	0.17
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Rear	10mm	✓	✓	22.62	23.00	0.306	0.33	0.160	0.17	-0.17
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Left	10mm	✓	✓	22.62	23.00	0.093	0.10	0.047	0.06	0.01
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Left	10mm	✓	✓	22.62	23.00	0.092	0.10	0.043	0.05	0.11
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Right	10mm	✓	✓	22.62	23.00	0.070	0.08	0.036	0.04	0.18
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Right	10mm	✓	✓	22.62	23.00	0.079	0.09	0.041	0.04	0.14
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Bottom	10mm	✓	✓	22.62	23.00	0.365	0.75	0.194	0.21	-0.13
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Bottom	10mm	✓	✓	22.62	23.00	0.373	0.41	0.198	0.22	-0.01
0	DB 1/3	Headset	LTE Band 7	21300	2560.0	LLCA	Bottom	10mm	CA, TC	✓	22.55	23.00	0.344	0.38	0.162	0.20	-0.02
0	DB 1/3	Body-Worn	LTE Band 7	21300	2560.0	RR99	Front	15mm	✓	✓	22.62	23.00	0.160	0.17	0.084	0.09	-0.03
0	DB 1/3	Body-Worn	LTE Band 7	21300	2560.0	RR99	Front	15mm	✓	✓	22.62	23.00	0.160	0.16	0.081	0.09	0.02
0	DB 1/3	Body-Worn	LTE Band 7	21300	2560.0	RR99	Rear	15mm	✓	✓	22.62	23.00	0.166	0.21	0.116	0.13	0.06
0	DB 1/3	Body-Worn	LTE Band 7	21300	2560.0	RR99	Rear	15mm	✓	✓	22.62	23.00	0.160	0.20	0.102	0.11	0.05
0	DB 1	Body-Worn	LTE Band 7	21300	2560.0	LLCA	Rear	15mm	CA, TC	✓	22.55	23.00	0.163	0.20	0.105	0.12	-0.10
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Left Cheek	0mm	✓	✓	21.46	21.70	0.426	0.46	0.217	0.23	0.10
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Left Cheek	0mm	✓	✓	21.34	21.70	0.415	0.46	0.210	0.22	-0.04
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Left Tilt	0mm	✓	✓	21.46	21.70	0.072	0.08	0.041	0.04	-0.19
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Left Tilt	0mm	✓	✓	21.34	21.70	0.070	0.08	0.040	0.04	0.09
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	21.46	21.70	0.576	0.61	0.265	0.28	0.08
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	21.34	21.70	0.516	0.57	0.261	0.29	-0.14
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	21.46	21.70	0.124	0.13	0.070	0.07	0.12
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	21.34	21.70	0.120	0.13	0.066	0.07	0.13
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Bottom	0mm	✓	✓	21.34	21.70	0.068	0.75	0.299	0.33	-0.03
1	DB 2	Head	LTE Band 7	20950	2510.0	RR99	Right Cheek	0mm	✓	✓	21.16	21.70	0.643	0.73	0.299	0.34	-0.15
1	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	21.34	21.70	0.571	0.63	0.264	0.29	0.18
1	DB 2	Head	LTE Band 7	21300	2560.0	LLCA	Right Cheek	0mm	CA, TC	✓	21.46	21.70	0.569	0.60	0.267	0.29	-0.12
1	DB 4	Head	LTE Band 7	21300	2560.0	RR99	Left Cheek	0mm	✓	✓	19.75	20.00	0.334	0.37	0.165	0.18	0.18
1	DB 4	Head	LTE Band 7	21300	2560.0	RR99	Left Cheek	0mm	✓	✓	19.89	20.00	0.325	0.37	0.169	0.19	0.05
1	DB 4	Head	LTE Band 7	21300	2560.0	RR99	Left Tilt	0mm	✓	✓	19.75	20.00	0.056	0.06	0.031	0.03	0.06
1	DB 4	Head	LTE Band 7	21300	2560.0	RR99	Left Tilt	0mm	✓	✓	19.89	20.00	0.059	0.06	0.030	0.03	-0.18
1	DB 4	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	19.75	20.00	0.452	0.50	0.261	0.27	-0.14
1	DB 4	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	19.89	20.00	0.440	0.51	0.271	0.31	0.11
1	DB 4	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	19.75	20.00	0.007	0.11	0.053	0.06	-0.16
1	DB 4	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	19.89	20.00	0.004	0.11	0.050	0.06	0.07
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Front	10mm	✓	✓	20.21	20.70	0.200	0.22	0.102	0.11	0.10
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Front	10mm	✓	✓	20.16	20.70	0.208	0.23	0.108	0.12	-0.11
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Rear	10mm	✓	✓	20.21	20.70	0.421	0.47	0.199	0.22	-0.05
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Rear	10mm	✓	✓	20.16	20.70	0.409	0.46	0.203	0.23	-0.07
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Left	10mm	✓	✓	20.21	20.70	0.057	0.06	0.031	0.03	0.07
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Left	10mm	✓	✓	20.16	20.70	0.059	0.06	0.029	0.03	-0.15
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Top	10mm	✓	✓	20.21	20.70	0.044	0.06	0.024	0.03	-0.15
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	RR99	Top	10mm	✓	✓	20.16	20.70	0.044	0.06	0.022	0.02	0.04
1	DB 1/3	Headset	LTE Band 7	21300	2560.0	LLCA	Left	10mm	CA, TC	✓	20.14	20.70	0.042	0.06	0.020	0.02	0.03
1	DB 1/3	Body-Worn	LTE Band 7	21300	2560.0	RR99	Front	15mm	✓	✓	20.21	20.70	0.087	0.10	0.045	0.05	0.05
1	DB 1/3	Body-Worn	LTE Band 7	21300	2560.0	RR99	Front	15mm	✓	✓	20.16	20.70	0.087	0.10	0.045	0.05	0.01
1	DB 1/3	Body-Worn	LTE Band 7	21300	2560.0	RR99	Rear	15mm	✓	✓	20.21	20.70	0.156	0.17	0.081	0.09	-0.13
1	DB 1/3	Body-Worn	LTE Band 7	21300	2560.0	RR99	Rear	15mm	✓	✓	20.16	20.70	0.151	0.17	0.077	0.09	-0.07
1	DB 1	Body-Worn	LTE Band 7	21300	2560.0	LLCA	Rear	15mm	CA, TC	✓	20.14	20.70	0.142	0.16	0.074	0.08	0.11
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Left Cheek	0mm	✓	✓	19.21	19.50	0.324	0.40	0.205	0.22	-0.11
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Left Cheek	0mm	✓	✓	19.14	19.50	0.348	0.39	0.199	0.21	-0.10
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Left Tilt	0mm	✓	✓	19.21	19.50	0.391	0.42	0.205	0.22	0.15
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Left Tilt	0mm	✓	✓	19.14	19.50	0.405	0.43	0.211	0.23	-0.02
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	19.21	19.50	0.989	1.03	0.437	0.47	0.10
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	19.14	19.50	0.898	0.98	0.412	0.45	0.11
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	19.21	19.50	0.463	0.51	0.268	0.28	-0.12
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	19.14	19.50	0.724	0.86	0.364	0.40	-0.08
4	DB 2	Head	LTE Band 7	21100	2535.0	RR99	Right Cheek	0mm	✓	✓	19.07	19.50	0.854	0.94	0.396	0.44	0.15
4	DB 2	Head	LTE Band 7	20950	2510.0	RR99	Right Cheek	0mm	✓	✓	18.97	19.50	0.750	0.89	0.381	0.43	0.17
4	DB 2	Head	LTE Band 7	21100	2535.0	RR99	Right Cheek	0mm	✓	✓	19.09	19.50	0.823	0.92	0.389	0.43	0.12
4	DB 2	Head	LTE Band 7	20950	2510.0	RR99	Right Cheek	0mm	✓	✓	18.91	19.50	0.759	0.92	0.383	0.44	-0.03
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Cheek	0mm	✓	✓	19.08	19.50	0.910	1.02	0.419	0.46	0.12
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	19.09	19.50	0.705	0.83	0.363	0.39	0.13
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	18.97	19.50	0.707	0.89	0.359	0.38	0.02
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	19.02	19.50	0.725	0.81	0.344	0.38	0.19
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	18.91	19.50	0.707	0.81	0.341	0.39	0.09
4	DB 2	Head	LTE Band 7	21300	2560.0	RR99	Right Tilt	0mm	✓	✓	19.06	19.50	0.813	0.90	0.373	0.41	-0.14



Table 12.8: LTE Band 12 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	LTE Band 12	23130	711.0	1RB49	Left Cheek	0mm	\	\	24.00	25.00	0.073	0.09	0.054	0.07	0.04
0	DSI 2/4	Head	LTE Band 12	23130	711.0	25RB25	Left Cheek	0mm	\	\	23.17	24.00	0.062	0.08	0.046	0.06	0.07
0	DSI 2/4	Head	LTE Band 12	23130	711.0	1RB49	Left Tilt	0mm	\	\	24.00	25.00	0.045	0.06	0.034	0.04	0.16
0	DSI 2/4	Head	LTE Band 12	23130	711.0	25RB25	Left Tilt	0mm	\	\	23.17	24.00	<0.01	<0.01	<0.01	<0.01	\
0	DSI 2/4	Head	LTE Band 12	23130	711.0	1RB49	Right Cheek	0mm	\	\	24.00	25.00	0.085	0.11	0.061	0.08	-0.05
0	DSI 2/4	Head	LTE Band 12	23130	711.0	25RB25	Right Cheek	0mm	\	\	23.17	24.00	0.073	0.09	0.052	0.06	0.12
0	DSI 2/4	Head	LTE Band 12	23130	711.0	1RB49	Right Tilt	0mm	\	\	24.00	25.00	<0.01	<0.01	<0.01	<0.01	\
0	DSI 2/4	Head	LTE Band 12	23130	711.0	25RB25	Right Tilt	0mm	\	\	23.17	24.00	<0.01	<0.01	<0.01	<0.01	\
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Front	10mm	\	\	24.00	25.00	0.161	0.20	0.111	0.14	0.01
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Front	10mm	\	\	23.17	24.00	0.139	0.17	0.095	0.12	-0.02
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Rear	10mm	\	\	24.00	25.00	0.244	0.31	0.145	0.18	-0.03
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Rear	10mm	\	\	23.17	24.00	0.184	0.22	0.117	0.14	0.11
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Left	10mm	\	\	24.00	25.00	0.150	0.19	0.100	0.13	0.07
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Left	10mm	\	\	23.17	24.00	0.124	0.15	0.082	0.10	-0.02
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Right	10mm	\	\	24.00	25.00	0.116	0.15	0.076	0.10	0.01
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Right	10mm	\	\	23.17	24.00	0.097	0.12	0.064	0.08	0.05
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Bottom	10mm	\	\	24.00	25.00	0.095	0.12	0.050	0.06	-0.06
0	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Bottom	10mm	\	\	23.17	24.00	0.085	0.10	0.043	0.05	0.03
0	DSI 1/3	Body-Worn	LTE Band 12	23130	711.0	1RB49	Front	15mm	\	\	24.00	25.00	0.128	0.16	0.092	0.12	-0.12
0	DSI 1/3	Body-Worn	LTE Band 12	23130	711.0	25RB25	Front	15mm	\	\	23.17	24.00	0.110	0.13	0.079	0.10	0.08
0	DSI 1/3	Body-Worn	LTE Band 12	23130	711.0	1RB49	Rear	15mm	\	\	24.00	25.00	0.145	0.19	0.109	0.14	0.01
0	DSI 1/3	Body-Worn	LTE Band 12	23130	711.0	25RB25	Rear	15mm	\	\	23.17	24.00	0.130	0.16	0.088	0.11	0.07
1	DSI 2	Head	LTE Band 12	23130	711.0	1RB49	Left Cheek	0mm	\	\	22.85	23.75	0.402	0.49	0.251	0.31	0.08
1	DSI 2	Head	LTE Band 12	23130	711.0	25RB25	Left Cheek	0mm	\	\	22.85	23.75	0.414	0.51	0.258	0.32	-0.16
1	DSI 2	Head	LTE Band 12	23130	711.0	1RB49	Left Tilt	0mm	\	\	22.85	23.75	0.199	0.24	0.121	0.15	0.17
1	DSI 2	Head	LTE Band 12	23130	711.0	25RB25	Left Tilt	0mm	\	\	22.85	23.75	0.204	0.25	0.125	0.15	-0.04
1	DSI 2	Head	LTE Band 12	23130	711.0	1RB49	Right Cheek	0mm	\	\	22.85	23.75	0.844	1.04	0.458	0.56	0.14
1	DSI 2	Head	LTE Band 12	23130	711.0	25RB25	Right Cheek	0mm	\	15	22.85	23.75	0.864	1.06	0.470	0.58	0.08
1	DSI 2	Head	LTE Band 12	23130	711.0	1RB49	Right Tilt	0mm	\	\	22.85	23.75	0.267	0.33	0.153	0.19	-0.19
1	DSI 2	Head	LTE Band 12	23130	711.0	25RB25	Right Tilt	0mm	\	\	22.85	23.75	0.272	0.33	0.156	0.19	0.12
1	DSI 2	Head	LTE Band 12	23095	707.5	1RB49	Right Cheek	0mm	\	\	22.83	23.75	0.826	1.02	0.448	0.55	0.17
1	DSI 2	Head	LTE Band 12	23060	704.0	1RB49	Right Cheek	0mm	\	\	22.82	23.75	0.848	1.05	0.459	0.57	0.08
1	DSI 2	Head	LTE Band 12	23095	707.5	25RB25	Right Cheek	0mm	\	\	22.77	23.75	0.851	1.07	0.462	0.58	-0.11
1	DSI 2	Head	LTE Band 12	23060	704.0	25RB25	Right Cheek	0mm	\	\	22.84	23.75	0.789	0.97	0.426	0.53	0.04
1	DSI 2	Head	LTE Band 12	23130	711.0	50RB	Right Cheek	0mm	\	\	22.79	23.75	0.854	1.07	0.464	0.58	-0.13
1	DSI 4	Head	LTE Band 12	23130	711.0	1RB49	Left Cheek	0mm	\	\	21.58	22.25	0.296	0.35	0.185	0.22	-0.18
1	DSI 4	Head	LTE Band 12	23130	711.0	25RB25	Left Cheek	0mm	\	\	21.59	22.25	0.305	0.36	0.190	0.22	-0.19
1	DSI 4	Head	LTE Band 12	23130	711.0	1RB49	Left Tilt	0mm	\	\	21.58	22.25	0.147	0.17	0.089	0.10	0.05
1	DSI 4	Head	LTE Band 12	23130	711.0	25RB25	Left Tilt	0mm	\	\	21.59	22.25	0.150	0.17	0.092	0.11	0.12
1	DSI 4	Head	LTE Band 12	23130	711.0	1RB49	Right Cheek	0mm	\	\	21.58	22.25	0.622	0.73	0.337	0.39	-0.14
1	DSI 4	Head	LTE Band 12	23130	711.0	25RB25	Right Cheek	0mm	\	\	21.59	22.25	0.637	0.74	0.346	0.40	-0.14
1	DSI 4	Head	LTE Band 12	23130	711.0	1RB49	Right Tilt	0mm	\	\	21.58	22.25	0.197	0.23	0.113	0.13	0.10
1	DSI 4	Head	LTE Band 12	23130	711.0	25RB25	Right Tilt	0mm	\	\	21.59	22.25	0.201	0.23	0.115	0.13	0.04
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Front	10mm	\	\	23.95	25.00	0.334	0.43	0.212	0.27	0.02
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Front	10mm	\	\	23.14	24.00	0.278	0.34	0.175	0.21	-0.01
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Rear	10mm	\	\	23.95	25.00	0.492	0.63	0.305	0.39	0.01
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Rear	10mm	\	\	23.14	24.00	0.422	0.51	0.254	0.31	0.15
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Left	10mm	\	16	23.95	25.00	0.699	0.89	0.418	0.53	-0.13
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Left	10mm	\	\	23.14	24.00	0.578	0.70	0.336	0.41	0.02
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	1RB49	Top	10mm	\	\	23.95	25.00	0.065	0.08	0.043	0.06	0.14
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	25RB25	Top	10mm	\	\	23.14	24.00	0.052	0.06	0.036	0.04	-0.06
1	DSI 1/3	Hotspot	LTE Band 12	23095	707.5	1RB49	Left	10mm	\	\	23.91	25.00	0.660	0.85	0.386	0.50	-0.07
1	DSI 1/3	Hotspot	LTE Band 12	23060	704.0	1RB49	Left	10mm	\	\	23.90	25.00	0.653	0.84	0.382	0.49	0.08
1	DSI 1/3	Hotspot	LTE Band 12	23130	711.0	50RB	Left	10mm	\	\	23.06	24.00	0.554	0.69	0.325	0.40	0.11
1	DSI 1/3	Body-Worn	LTE Band 12	23130	711.0	1RB49	Front	15mm	\	\	23.95	25.00	0.207	0.26	0.127	0.16	0.02
1	DSI 1/3	Body-Worn	LTE Band 12	23130	711.0	25RB25	Front	15mm	\	\	23.14	24.00	0.168	0.20	0.103	0.13	0.10
1	DSI 1/3	Body-Worn	LTE Band 12	23130	711.0	1RB49	Rear	15mm	\	\	23.95	25.00	0.288	0.37	0.188	0.24	-0.05
1	DSI 1/3	Body-Worn	LTE Band 12	23130	711.0	25RB25	Rear	15mm	\	\	23.14	24.00	0.242	0.29	0.144	0.18	-0.06

Note: SAR for LTE Band 17 is covered by LTE Band 12 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.



Table 12.9: LTE Band 13 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	LTE Band 13	23230	782.0	1RB49	Left Cheek	0mm	\	\	22.79	24.00	0.091	0.12	0.067	0.09	-0.15
0	DSI 2/4	Head	LTE Band 13	23230	782.0	25RB12	Left Cheek	0mm	\	\	21.93	23.00	0.071	0.09	0.051	0.07	0.14
0	DSI 2/4	Head	LTE Band 13	23230	782.0	1RB49	Left Tilt	0mm	\	\	22.79	24.00	0.063	0.08	0.046	0.06	0.06
0	DSI 2/4	Head	LTE Band 13	23230	782.0	25RB12	Left Tilt	0mm	\	\	21.93	23.00	0.047	0.06	0.035	0.04	-0.09
0	DSI 2/4	Head	LTE Band 13	23230	782.0	1RB49	Right Cheek	0mm	\	\	22.79	24.00	0.087	0.11	0.062	0.08	0.14
0	DSI 2/4	Head	LTE Band 13	23230	782.0	25RB12	Right Cheek	0mm	\	\	21.93	23.00	0.068	0.09	0.048	0.06	0.03
0	DSI 2/4	Head	LTE Band 13	23230	782.0	1RB49	Right Tilt	0mm	\	\	22.79	24.00	0.055	0.07	0.039	0.05	-0.06
0	DSI 2/4	Head	LTE Band 13	23230	782.0	25RB12	Right Tilt	0mm	\	\	21.93	23.00	<0.01	<0.01	<0.01	<0.01	\
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB49	Front	10mm	\	\	22.79	24.00	0.175	0.23	0.116	0.15	0.03
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB12	Front	10mm	\	\	21.93	23.00	0.140	0.18	0.092	0.12	0.12
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB49	Rear	10mm	\	\	22.79	24.00	0.282	0.37	0.174	0.23	-0.09
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB12	Rear	10mm	\	\	21.93	23.00	0.175	0.22	0.116	0.15	0.01
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB49	Left	10mm	\	\	22.79	24.00	0.086	0.11	0.058	0.08	-0.05
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB12	Left	10mm	\	\	21.93	23.00	0.070	0.09	0.047	0.06	0.13
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB49	Right	10mm	\	\	22.79	24.00	0.094	0.12	0.064	0.08	0.07
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB12	Right	10mm	\	\	21.93	23.00	0.078	0.10	0.053	0.07	0.05
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB49	Bottom	10mm	\	\	22.79	24.00	0.116	0.15	0.061	0.08	0.02
0	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB12	Bottom	10mm	\	\	21.93	23.00	0.094	0.12	0.049	0.06	0.06
0	DSI 1/3	Body-Worn	LTE Band 13	23230	782.0	1RB49	Front	15mm	\	\	22.79	24.00	0.111	0.15	0.077	0.10	0.03
0	DSI 1/3	Body-Worn	LTE Band 13	23230	782.0	25RB12	Front	10mm	\	\	21.93	23.00	0.087	0.11	0.061	0.08	0.05
0	DSI 1/3	Body-Worn	LTE Band 13	23230	782.0	1RB49	Rear	10mm	\	\	22.79	24.00	0.139	0.18	0.097	0.13	-0.06
0	DSI 1/3	Body-Worn	LTE Band 13	23230	782.0	25RB12	Rear	10mm	\	\	21.93	23.00	0.112	0.14	0.077	0.10	0.02
1	DSI 2	Head	LTE Band 13	23230	782.0	1RB24	Left Cheek	0mm	\	\	21.66	22.75	0.384	0.49	0.249	0.32	0.16
1	DSI 2	Head	LTE Band 13	23230	782.0	25RB25	Left Cheek	0mm	\	\	21.60	22.75	0.393	0.51	0.256	0.33	0.01
1	DSI 2	Head	LTE Band 13	23230	782.0	1RB24	Left Tilt	0mm	\	\	21.66	22.75	0.200	0.26	0.129	0.17	0.13
1	DSI 2	Head	LTE Band 13	23230	782.0	25RB25	Left Tilt	0mm	\	\	21.60	22.75	0.206	0.27	0.132	0.17	0.06
1	DSI 2	Head	LTE Band 13	23230	782.0	1RB24	Right Cheek	0mm	\	\	21.66	22.75	0.825	1.06	0.460	0.59	0.03
1	DSI 2	Head	LTE Band 13	23230	782.0	25RB25	Right Cheek	0mm	\	\	21.60	22.75	0.844	1.10	0.470	0.61	-0.15
1	DSI 2	Head	LTE Band 13	23230	782.0	1RB24	Right Tilt	0mm	\	\	21.66	22.75	0.276	0.35	0.165	0.21	0.06
1	DSI 2	Head	LTE Band 13	23230	782.0	25RB25	Right Tilt	0mm	\	\	21.60	22.75	0.285	0.37	0.169	0.22	-0.19
1	DSI 2	Head	LTE Band 13	23230	782.0	50RB	Right Cheek	0mm	\	17	21.63	22.75	0.876	1.13	0.478	0.62	-0.07
1	DSI 4	Head	LTE Band 13	23230	782.0	1RB24	Left Cheek	0mm	\	\	20.35	21.25	0.252	0.31	0.164	0.20	0.02
1	DSI 4	Head	LTE Band 13	23230	782.0	25RB25	Left Cheek	0mm	\	\	20.35	21.25	0.258	0.32	0.168	0.21	-0.13
1	DSI 4	Head	LTE Band 13	23230	782.0	1RB24	Left Tilt	0mm	\	\	20.35	21.25	0.131	0.16	0.085	0.10	0.09
1	DSI 4	Head	LTE Band 13	23230	782.0	25RB25	Left Tilt	0mm	\	\	20.35	21.25	0.135	0.17	0.087	0.11	0.01
1	DSI 4	Head	LTE Band 13	23230	782.0	1RB24	Right Cheek	0mm	\	\	20.35	21.25	0.542	0.67	0.302	0.37	-0.12
1	DSI 4	Head	LTE Band 13	23230	782.0	25RB25	Right Cheek	0mm	\	\	20.35	21.25	0.582	0.72	0.318	0.39	0.06
1	DSI 4	Head	LTE Band 13	23230	782.0	1RB24	Right Tilt	0mm	\	\	20.35	21.25	0.181	0.22	0.108	0.13	-0.04
1	DSI 4	Head	LTE Band 13	23230	782.0	25RB25	Right Tilt	0mm	\	\	20.35	21.25	0.187	0.23	0.111	0.14	-0.19
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB24	Front	10mm	\	\	22.79	24.00	0.369	0.49	0.240	0.32	0.15
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB25	Front	10mm	\	\	21.90	23.00	0.316	0.41	0.206	0.27	0.11
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB24	Rear	10mm	\	\	22.79	24.00	0.547	0.72	0.351	0.46	-0.17
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB25	Rear	10mm	\	\	21.90	23.00	0.463	0.60	0.294	0.38	0.10
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB24	Left	10mm	\	18	22.79	24.00	0.719	0.95	0.417	0.55	-0.03
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB25	Left	10mm	\	\	21.90	23.00	0.578	0.74	0.343	0.44	0.08
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	1RB24	Top	10mm	\	\	22.79	24.00	0.078	0.10	0.055	0.07	0.01
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	25RB25	Top	10mm	\	\	21.90	23.00	0.065	0.08	0.045	0.06	0.04
1	DSI 1/3	Hotspot	LTE Band 13	23230	782.0	50RB	Left	10mm	\	\	21.90	23.00	0.563	0.73	0.342	0.44	-0.09
1	DSI 1/3	Body-Worn	LTE Band 13	23230	782.0	1RB24	Front	15mm	\	\	22.79	24.00	0.199	0.26	0.119	0.16	0.02
1	DSI 1/3	Body-Worn	LTE Band 13	23230	782.0	25RB25	Front	10mm	\	\	21.90	23.00	0.167	0.22	0.101	0.13	0.15
1	DSI 1/3	Body-Worn	LTE Band 13	23230	782.0	1RB24	Rear	10mm	\	\	22.79	24.00	0.310	0.41	0.202	0.27	-0.07
1	DSI 1/3	Body-Worn	LTE Band 13	23230	782.0	25RB25	Rear	10mm	\	\	21.90	23.00	0.249	0.32	0.148	0.19	-0.03



Table 12.10: LTE Band 26 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	LTE Band 26	26775	822.5	1RB74	Left Cheek	0mm	\	\	23.88	25.00	0.103	0.13	0.075	0.10	-0.13
0	DSI 2/4	Head	LTE Band 26	26775	822.5	36RB0	Left Cheek	0mm	\	\	22.78	24.00	0.062	0.08	0.044	0.06	0.04
0	DSI 2/4	Head	LTE Band 26	26775	822.5	1RB74	Left Tilt	0mm	\	\	23.88	25.00	0.064	0.08	0.047	0.06	0.13
0	DSI 2/4	Head	LTE Band 26	26775	822.5	36RB0	Left Tilt	0mm	\	\	22.78	24.00	<0.01	< 0.01	<0.01	< 0.01	\
0	DSI 2/4	Head	LTE Band 26	26775	822.5	1RB74	Right Cheek	0mm	\	\	23.88	25.00	0.100	0.13	0.072	0.09	-0.06
0	DSI 2/4	Head	LTE Band 26	26775	822.5	36RB0	Right Cheek	0mm	\	\	22.78	24.00	0.059	0.08	0.042	0.06	0.11
0	DSI 2/4	Head	LTE Band 26	26775	822.5	1RB74	Right Tilt	0mm	\	\	23.88	25.00	0.059	0.08	0.043	0.06	0.11
0	DSI 2/4	Head	LTE Band 26	26775	822.5	36RB0	Right Tilt	0mm	\	\	22.78	24.00	<0.01	< 0.01	<0.01	< 0.01	\
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB74	Front	10mm	\	\	23.88	25.00	0.168	0.22	0.112	0.14	-0.02
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB0	Front	10mm	\	\	22.78	24.00	0.102	0.14	0.069	0.09	0.04
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB74	Rear	10mm	\	\	23.88	25.00	0.286	0.37	0.175	0.23	0.15
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB0	Rear	10mm	\	\	22.78	24.00	0.158	0.21	0.101	0.13	0.14
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB74	Left	10mm	\	\	23.88	25.00	0.074	0.10	0.050	0.06	0.03
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB0	Left	10mm	\	\	22.78	24.00	0.048	0.06	0.033	0.04	0.01
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB74	Right	10mm	\	\	23.88	25.00	0.094	0.12	0.063	0.08	-0.03
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB0	Right	10mm	\	\	22.78	24.00	0.059	0.08	0.039	0.05	0.04
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB74	Bottom	10mm	\	\	23.88	25.00	0.131	0.17	0.075	0.10	0.08
0	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB0	Bottom	10mm	\	\	22.78	24.00	0.078	0.10	0.044	0.06	0.12
0	DSI 1/3	Body-Worn	LTE Band 26	26775	822.5	1RB74	Front	15mm	\	\	23.88	25.00	0.101	0.13	0.073	0.09	-0.02
0	DSI 1/3	Body-Worn	LTE Band 26	26775	822.5	36RB0	Front	15mm	\	\	22.78	24.00	0.066	0.09	0.046	0.06	0.05
0	DSI 1/3	Body-Worn	LTE Band 26	26775	822.5	1RB74	Rear	15mm	\	\	23.88	25.00	0.132	0.17	0.088	0.11	0.09
0	DSI 1/3	Body-Worn	LTE Band 26	26775	822.5	36RB0	Rear	15mm	\	\	22.78	24.00	0.079	0.10	0.054	0.07	-0.01
1	DSI 2/4	Head	LTE Band 26	26775	822.5	1RB37	Left Cheek	0mm	\	\	20.52	21.25	0.233	0.28	0.155	0.18	0.08
1	DSI 2/4	Head	LTE Band 26	26775	822.5	36RB19	Left Cheek	0mm	\	\	20.39	21.25	0.230	0.28	0.153	0.19	-0.18
1	DSI 2/4	Head	LTE Band 26	26775	822.5	1RB37	Left Tilt	0mm	\	\	20.52	21.25	0.121	0.14	0.080	0.09	0.16
1	DSI 2/4	Head	LTE Band 26	26775	822.5	36RB19	Left Tilt	0mm	\	\	20.39	21.25	0.119	0.15	0.079	0.10	0.00
1	DSI 2/4	Head	LTE Band 26	26775	822.5	1RB37	Right Cheek	0mm	\	19	20.52	21.25	0.557	0.66	0.308	0.36	0.15
1	DSI 2/4	Head	LTE Band 26	26775	822.5	36RB19	Right Cheek	0mm	\	\	20.39	21.25	0.543	0.66	0.306	0.37	-0.10
1	DSI 2/4	Head	LTE Band 26	26775	822.5	1RB37	Right Tilt	0mm	\	\	20.52	21.25	0.169	0.20	0.103	0.12	0.16
1	DSI 2/4	Head	LTE Band 26	26775	822.5	36RB19	Right Tilt	0mm	\	\	20.39	21.25	0.169	0.21	0.102	0.12	0.15
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB37	Front	10mm	\	\	23.91	25.00	0.377	0.48	0.236	0.30	-0.07
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB19	Front	10mm	\	\	22.79	24.00	0.298	0.39	0.185	0.24	0.13
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB37	Rear	10mm	\	\	23.91	25.00	0.588	0.76	0.353	0.45	0.02
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB19	Rear	10mm	\	\	22.79	24.00	0.456	0.60	0.270	0.36	0.01
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB37	Left	10mm	\	\	23.91	25.00	0.680	0.87	0.389	0.50	-0.02
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB19	Left	10mm	\	\	22.79	24.00	0.526	0.70	0.301	0.40	0.14
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	1RB37	Top	10mm	\	\	23.91	25.00	0.082	0.11	0.056	0.07	-0.14
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	36RB19	Top	10mm	\	\	22.79	24.00	0.062	0.08	0.043	0.06	-0.11
1	DSI 1/3	Hotspot	LTE Band 26	26965	841.5	1RB37	Left	10mm	\	20	23.72	25.00	0.799	1.07	0.434	0.58	-0.02
1	DSI 1/3	Hotspot	LTE Band 26	26865	831.5	1RB37	Left	10mm	\	\	23.83	25.00	0.768	1.01	0.423	0.55	-0.19
1	DSI 1/3	Hotspot	LTE Band 26	26775	822.5	75RB	Left	10mm	\	\	22.76	24.00	0.548	0.73	0.306	0.41	-0.06
1	DSI 1/3	Hotspot	LTE Band 26	26965	841.5	1RB37	Left	10mm	SIM2	\	23.72	25.00	0.782	1.05	0.420	0.56	0.05
1	DSI 1/3	Body-Worn	LTE Band 26	26775	822.5	1RB37	Front	15mm	\	\	23.91	25.00	0.228	0.29	0.150	0.19	-0.07
1	DSI 1/3	Body-Worn	LTE Band 26	26775	822.5	36RB19	Front	15mm	\	\	22.79	24.00	0.185	0.24	0.120	0.16	-0.08
1	DSI 1/3	Body-Worn	LTE Band 26	26775	822.5	1RB37	Rear	15mm	\	\	23.91	25.00	0.343	0.44	0.220	0.28	-0.01
1	DSI 1/3	Body-Worn	LTE Band 26	26775	822.5	36RB19	Rear	15mm	\	\	22.79	24.00	0.266	0.35	0.171	0.23	0.03

Note: SAR for LTE Band 5 is covered by LTE Band 26 due to similar frequency range, same maximum tune-up limit and same channel bandwidth.



Table 12.11: LTE Band 66 SAR Values

Ant	Power Level	RF Exposure Condition	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Fig. No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Off
0	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Left Cheek	0mm	✓	✓	24.41	24.00	0.116	0.113	0.073	0.08	-0.12
0	DS1 24	Head	LTE Band 66	125272	1770.0	50RB25	Left Cheek	0mm	✓	✓	24.41	24.00	0.100	0.111	0.050	0.07	-0.10
0	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Left Tib	0mm	✓	✓	24.41	24.00	0.074	0.08	0.047	0.05	-0.02
0	DS1 24	Head	LTE Band 66	125272	1770.0	50RB25	Left Tib	0mm	✓	✓	24.41	24.00	0.069	0.08	0.044	0.05	-0.03
0	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Right Cheek	0mm	✓	✓	24.41	24.00	0.143	0.111	0.091	0.16	0.17
0	DS1 24	Head	LTE Band 66	125272	1770.0	50RB25	Right Cheek	0mm	✓	✓	24.41	24.00	0.135	0.15	0.081	0.09	-0.02
0	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Right Tib	0mm	✓	✓	24.41	24.00	0.080	0.09	0.048	0.05	0.15
0	DS1 24	Head	LTE Band 66	125272	1770.0	50RB25	Right Tib	0mm	✓	✓	24.41	24.00	0.073	0.08	0.044	0.05	-0.05
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Front	10mm	✓	✓	21.62	22.25	0.340	0.39	0.194	0.22	0.03
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB25	Front	10mm	✓	✓	21.63	22.25	0.373	0.43	0.213	0.25	-0.02
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Rear	10mm	✓	✓	21.62	22.25	0.464	0.54	0.29	0.31	0.11
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB25	Rear	10mm	✓	✓	21.63	22.25	0.503	0.58	0.273	0.31	0.05
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Left	10mm	✓	✓	21.62	22.25	0.138	0.16	0.077	0.09	0.02
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB25	Left	10mm	✓	✓	21.63	22.25	0.149	0.17	0.084	0.10	0.01
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Right	10mm	✓	✓	21.62	22.25	0.090	0.10	0.052	0.06	0.13
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB25	Right	10mm	✓	✓	21.63	22.25	0.098	0.11	0.057	0.07	0.02
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Bottom	10mm	✓	✓	21.62	22.25	0.833	0.96	0.433	0.50	0.01
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB25	Bottom	10mm	✓	✓	21.63	22.25	0.872	1.01	0.452	0.56	-0.10
0	DS1 13	Hotspot	LTE Band 66	125222	1745.0	1RB0	Bottom	10mm	✓	✓	21.55	22.25	0.643	0.76	0.332	0.39	0.03
0	DS1 13	Hotspot	LTE Band 66	125072	1720.0	1RB0	Bottom	10mm	✓	✓	21.54	22.25	0.555	0.65	0.289	0.34	0.04
0	DS1 13	Hotspot	LTE Band 66	125222	1745.0	50RB25	Bottom	10mm	✓	✓	21.52	22.25	0.693	0.83	0.359	0.42	-0.06
0	DS1 13	Hotspot	LTE Band 66	125072	1720.0	50RB25	Bottom	10mm	✓	✓	21.51	22.25	0.605	0.72	0.314	0.37	0.07
0	DS1 13	Hotspot	LTE Band 66	125272	1770.0	100RB	Bottom	10mm	✓	✓	21.54	22.25	0.842	0.99	0.434	0.51	0.13
0	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	1RB0	Front	15mm	✓	✓	21.62	22.25	0.187	0.22	0.111	0.13	-0.15
0	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	50RB25	Front	15mm	✓	✓	21.63	22.25	0.199	0.23	0.117	0.13	-0.02
0	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	1RB0	Rear	15mm	✓	✓	21.62	22.25	0.253	0.29	0.145	0.17	0.05
0	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	50RB25	Rear	15mm	✓	✓	21.63	22.25	0.302	0.35	0.163	0.21	0.03
1	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Left Cheek	0mm	✓	✓	18.48	18.80	0.311	0.33	0.171	0.18	-0.01
1	DS1 24	Head	LTE Band 66	125272	1770.0	50RB0	Left Cheek	0mm	✓	✓	18.47	18.80	0.274	0.30	0.146	0.16	0.10
1	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Left Tib	0mm	✓	✓	18.48	18.80	0.099	0.11	0.050	0.07	0.07
1	DS1 24	Head	LTE Band 66	125272	1770.0	50RB0	Left Tib	0mm	✓	✓	18.47	18.80	0.073	0.08	0.046	0.05	0.12
1	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Right Cheek	0mm	✓	✓	18.48	18.80	0.589	0.63	0.297	0.32	-0.16
1	DS1 24	Head	LTE Band 66	125272	1770.0	50RB0	Right Cheek	0mm	✓	✓	18.47	18.80	0.466	0.49	0.249	0.26	0.09
1	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Right Tib	0mm	✓	✓	18.48	18.80	0.133	0.14	0.079	0.08	0.12
1	DS1 24	Head	LTE Band 66	125272	1770.0	50RB0	Right Tib	0mm	✓	✓	18.47	18.80	0.105	0.11	0.061	0.07	-0.06
1	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Front	10mm	✓	✓	22.57	22.80	0.348	0.37	0.190	0.20	0.14
1	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB0	Front	10mm	✓	✓	22.60	22.80	0.369	0.39	0.203	0.21	-0.05
1	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Rear	10mm	✓	✓	22.57	22.80	0.561	0.59	0.291	0.31	0.18
1	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB0	Rear	10mm	✓	✓	22.60	22.80	0.604	0.63	0.314	0.33	0.09
1	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Left	10mm	✓	✓	22.57	22.80	0.036	0.39	0.490	0.52	0.02
1	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB0	Left	10mm	✓	22	22.60	22.80	0.944	0.99	0.495	0.52	0.17
1	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Top	10mm	✓	✓	22.57	22.80	0.887	0.99	0.499	0.52	0.02
1	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB0	Top	10mm	✓	✓	22.60	22.80	0.105	0.11	0.062	0.07	-0.11
1	DS1 13	Hotspot	LTE Band 66	125222	1745.0	1RB0	Left	10mm	✓	✓	22.48	22.80	0.834	0.90	0.422	0.45	0.18
1	DS1 13	Hotspot	LTE Band 66	125072	1720.0	1RB0	Left	10mm	✓	✓	22.55	22.80	0.721	0.76	0.364	0.39	0.07
1	DS1 13	Hotspot	LTE Band 66	125222	1745.0	50RB0	Left	10mm	✓	✓	22.48	22.80	0.848	0.91	0.429	0.46	0.16
1	DS1 13	Hotspot	LTE Band 66	125072	1720.0	50RB0	Left	10mm	✓	✓	22.43	22.80	0.747	0.81	0.376	0.41	-0.10
1	DS1 13	Hotspot	LTE Band 66	125072	1720.0	100RB	Left	10mm	✓	✓	22.48	22.80	0.772	0.83	0.389	0.42	-0.14
1	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	1RB0	Front	15mm	✓	✓	22.57	22.80	0.179	0.19	0.107	0.11	-0.05
1	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	50RB0	Front	15mm	✓	✓	22.60	22.80	0.186	0.19	0.112	0.12	-0.11
1	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	1RB0	Rear	15mm	✓	✓	22.57	22.80	0.282	0.30	0.162	0.17	0.15
1	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	50RB0	Rear	15mm	✓	✓	22.60	22.80	0.285	0.30	0.165	0.17	0.03
4	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Left Cheek	0mm	✓	✓	14.37	15.10	0.206	0.24	0.140	0.17	0.08
4	DS1 24	Head	LTE Band 66	125272	1770.0	50RB0	Left Cheek	0mm	✓	✓	14.38	15.10	0.206	0.25	0.141	0.17	0.08
4	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Left Tib	0mm	✓	✓	14.37	15.10	0.210	0.25	0.132	0.16	-0.01
4	DS1 24	Head	LTE Band 66	125272	1770.0	50RB0	Left Tib	0mm	✓	✓	14.38	15.10	0.212	0.25	0.134	0.16	0.10
4	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Right Cheek	0mm	✓	✓	14.37	15.10	0.484	0.55	0.250	0.30	0.02
4	DS1 24	Head	LTE Band 66	125272	1770.0	50RB0	Right Cheek	0mm	✓	✓	14.38	15.10	0.478	0.55	0.249	0.30	0.02
4	DS1 24	Head	LTE Band 66	125272	1770.0	1RB0	Right Tib	0mm	✓	✓	14.37	15.10	0.275	0.33	0.154	0.18	-0.03
4	DS1 24	Head	LTE Band 66	125272	1770.0	50RB0	Right Tib	0mm	✓	✓	14.38	15.10	0.275	0.32	0.155	0.18	0.18
4	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Front	10mm	✓	✓	20.49	21.10	0.292	0.34	0.184	0.21	0.10
4	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB0	Front	10mm	✓	✓	20.44	21.10	0.296	0.34	0.187	0.22	-0.12
4	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Rear	10mm	✓	✓	20.49	21.10	0.359	0.41	0.228	0.28	-0.11
4	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB0	Rear	10mm	✓	✓	20.44	21.10	0.363	0.42	0.241	0.28	0.07
4	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Left	10mm	✓	✓	20.49	21.10	0.051	0.06	0.035	0.04	0.08
4	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB0	Right	10mm	✓	✓	20.44	21.10	0.055	0.06	0.036	0.04	0.04
4	DS1 13	Hotspot	LTE Band 66	125272	1770.0	1RB0	Top	10mm	✓	✓	20.49	21.10	0.555	0.58	0.305	0.36	0.09
4	DS1 13	Hotspot	LTE Band 66	125272	1770.0	50RB0	Top	10mm	✓	✓	20.44	21.10	0.553	0.64	0.334	0.39	-0.09
4	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	1RB0	Front	15mm	✓	✓	20.49	21.10	0.167	0.19	0.117	0.13	0.17
4	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	50RB0	Front	15mm	✓	✓	20.44	21.10	0.170	0.20	0.119	0.14	0.11
4	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	1RB0	Rear	15mm	✓	✓	20.49	21.10	0.213	0.25	0.147	0.17	-0.08
4	DS1 13	Body/Worm	LTE Band 66	125272	1770.0	50RB0	Rear	15mm	✓	✓	20.44	21.10	0.217	0.25	0.150	0.17	0.13
5	DS1 2	Head	LTE Band 66	125272	1770.0	1RB0	Left Cheek	0mm	✓	✓	22.91	23.50	0.932	1.07	0.458	0.62	-0.05
5	DS1 2	Head	LTE Band 66	125272	1770.0	50RB25	Left Cheek	0mm	✓	✓	22.90	23.50	0.942	1.08	0.463	0.63	0.05
5	DS1 2	Head	LTE Band 66	125272	1770.0	1RB0	Left Tib	0mm	✓	✓	22.91	23.50	0.199	0.23	0.117	0.13	-0.05
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Table 12.12: LTE Band 38 SAR Values

Ant	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Modulo	Test Position	Distance	Note	Figure No.	EMF Power (mW)	Time (sec)	Measured SAR (W/kg)	Calculated SAR (W/kg)	Measured SAR (W/kg)	Calculated SAR (W/kg)	Power Dens.	
0	DS1 24	Head	LTE Band 38	38150	2610.0	1RE99	Left Cheek	0mm		1	24.43	25.00	0.076	0.09	0.036	0.04	0.05	
0	DS1 24	Head	LTE Band 38	38150	2610.0	SPR50	Left Cheek	0mm		1	23.69	24.00	0.069	0.08	0.032	0.04	-0.14	
0	DS1 24	Head	LTE Band 38	38150	2610.0	1RE99	Left TB	0mm		1	24.43	25.00	-0.01	-0.01	-0.01	-0.01	-	
0	DS1 24	Head	LTE Band 38	38150	2610.0	SPR50	Left TB	0mm		1	23.69	24.00	-0.01	-0.01	-0.01	-0.01	-	
0	DS1 24	Head	LTE Band 38	38150	2610.0	1RE99	Right Cheek	0mm		1	24.43	25.00	-0.01	-0.01	-0.01	-0.01	-	
0	DS1 24	Head	LTE Band 38	38150	2610.0	SPR50	Right Cheek	0mm		1	23.69	24.00	-0.01	-0.01	-0.01	-0.01	-	
0	DS1 24	Head	LTE Band 38	38150	2610.0	1RE99	Right TB	0mm		1	24.43	25.00	0.042	0.05	0.021	0.02	0.15	
0	DS1 24	Head	LTE Band 38	38150	2610.0	SPR50	Right TB	0mm		1	23.69	24.00	-0.01	-0.01	-0.01	-0.01	-	
0	DS1 2	Head	LTE Band 38	38150	2610.0	ULCA	Left Cheek	0mm	CA 38C	1	23.40	24.00	0.063	0.07	0.030	0.03	-0.02	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Front	10mm		1	24.43	25.00	0.211	0.24	0.111	0.13	0.03	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Front	10mm		1	23.69	24.00	0.126	0.21	0.100	0.11	-0.11	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Rear	10mm		1	24.43	25.00	0.209	0.23	0.109	0.16	0.08	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Rear	10mm		1	23.69	24.00	0.219	0.24	0.116	0.13	0.02	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Left	10mm		1	24.43	25.00	0.081	0.10	0.044	0.06	-0.06	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Left	10mm		1	23.69	24.00	0.081	0.07	0.030	0.03	0.11	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Right	10mm		1	24.43	25.00	0.062	0.07	0.030	0.03	-0.08	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Right	10mm		1	23.69	24.00	0.020	0.01	0.024	0.03	0.02	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Bottom	10mm		1	24.43	25.00	0.201	0.23	0.108	0.12	0.01	
0	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Bottom	10mm		1	23.69	24.00	0.126	0.21	0.104	0.11	0.06	
0	DS1 1	Indoors	LTE Band 38	38150	2610.0	ULCA	Rear	10mm	CA 38C	1	23.40	24.00	0.108	0.02	0.101	0.12	-0.03	
0	DS1 10	Body-Worn	LTE Band 38	38150	2610.0	1RE99	Front	10mm		1	24.43	25.00	0.120	0.14	0.081	0.07	-0.16	
0	DS1 10	Body-Worn	LTE Band 38	38150	2610.0	SPR50	Front	10mm		1	23.69	24.00	0.108	0.13	0.057	0.06	0.02	
0	DS1 10	Body-Worn	LTE Band 38	38150	2610.0	1RE99	Rear	10mm		1	24.43	25.00	0.142	0.16	0.083	0.09	-0.07	
0	DS1 10	Body-Worn	LTE Band 38	38150	2610.0	SPR50	Rear	10mm		1	23.69	24.00	0.121	0.13	0.068	0.07	0.05	
0	DS1 1	Body-Worn	LTE Band 38	38150	2610.0	ULCA	Rear	10mm	CA 38C	1	23.40	24.00	0.115	0.13	0.077	0.09	0.10	
1	DS1 2	Head	LTE Band 38	38150	2610.0	1RE99	Left Cheek	0mm		1	22.72	23.00	0.777	0.85	0.326	0.40	0.06	
1	DS1 2	Head	LTE Band 38	38150	2610.0	SPR50	Left Cheek	0mm		1	22.78	23.00	0.695	0.84	0.305	0.36	-0.06	
1	DS1 2	Head	LTE Band 38	38150	2610.0	1RE99	Left TB	0mm		1	22.72	23.00	0.031	0.11	0.048	0.07	-0.11	
1	DS1 2	Head	LTE Band 38	38150	2610.0	SPR50	Left TB	0mm		1	22.78	23.00	0.108	0.13	0.058	0.07	-0.12	
1	DS1 2	Head	LTE Band 38	38150	2610.0	1RE99	Right Cheek	0mm		1	22.72	23.00	0.050	0.06	0.043	0.04	0.16	
1	DS1 2	Head	LTE Band 38	38150	2610.0	SPR50	Right Cheek	0mm		1	22.78	23.00	0.786	0.85	0.351	0.40	-0.02	
1	DS1 2	Head	LTE Band 38	38150	2610.0	1RE99	Right TB	0mm		1	22.72	23.00	0.144	0.16	0.076	0.09	0.19	
1	DS1 2	Head	LTE Band 38	38150	2610.0	SPR50	Right TB	0mm		1	22.78	23.00	0.053	0.10	0.086	0.10	-0.01	
1	DS1 2	Head	LTE Band 38	38000	2565.0	1RE99	Left Cheek	0mm		1	22.68	23.00	0.641	0.79	0.290	0.36	-0.46	
1	DS1 2	Head	LTE Band 38	37850	2580.0	1RE99	Left Cheek	0mm		1	22.61	23.00	0.265	0.40	0.220	0.29	-0.03	
1	DS1 2	Head	LTE Band 38	38000	2565.0	1RE99	Left TB	0mm		1	22.74	23.00	0.111	0.14	0.078	0.10	-0.13	
1	DS1 2	Head	LTE Band 38	37850	2580.0	SPR50	Left Cheek	0mm		1	22.72	23.00	0.405	0.68	0.212	0.26	-0.16	
1	DS1 2	Head	LTE Band 38	38000	2565.0	SPR50	Left TB	0mm		1	22.78	23.00	0.625	0.75	0.408	0.51	0.03	
1	DS1 2	Head	LTE Band 38	38000	2565.0	1RE99	Right Cheek	0mm		1	22.68	23.00	0.744	0.82	0.313	0.39	0.19	
1	DS1 2	Head	LTE Band 38	37850	2580.0	1RE99	Right Cheek	0mm		1	22.61	23.00	0.265	0.41	0.244	0.43	-0.04	
1	DS1 2	Head	LTE Band 38	38000	2565.0	SPR50	Right Cheek	0mm		1	22.74	23.00	0.849	1.01	0.361	0.44	-0.16	
1	DS1 2	Head	LTE Band 38	37850	2580.0	SPR50	Right TB	0mm		1	22.72	23.00	0.670	0.82	0.291	0.36	-0.05	
1	DS1 2	Head	LTE Band 38	38150	2610.0	10R98	Right Cheek	0mm		1	22.69	23.00	0.725	0.86	0.326	0.39	-0.02	
1	DS1 2	Head	LTE Band 38	38150	2610.0	ULCA	Right Cheek	0mm	CA 38C	1	21.75	22.00	0.722	0.88	0.384	0.56	-0.03	
1	DS1 4	Head	LTE Band 38	38150	2610.0	1RE99	Left Cheek	0mm		1	18.18	19.10	0.316	0.39	0.140	0.17	-0.11	
1	DS1 4	Head	LTE Band 38	38150	2610.0	SPR50	Left Cheek	0mm		1	18.31	19.10	0.284	0.34	0.126	0.15	-0.08	
1	DS1 4	Head	LTE Band 38	38150	2610.0	1RE99	Left TB	0mm		1	18.18	19.10	0.037	0.05	0.020	0.03	-0.02	
1	DS1 4	Head	LTE Band 38	38150	2610.0	SPR50	Left TB	0mm		1	18.31	19.10	0.044	0.04	0.020	0.03	-0.17	
1	DS1 4	Head	LTE Band 38	38150	2610.0	1RE99	Right Cheek	0mm		1	18.18	19.10	0.336	0.42	0.148	0.18	-0.06	
1	DS1 4	Head	LTE Band 38	38150	2610.0	SPR50	Right Cheek	0mm		1	18.31	19.10	0.311	0.34	0.141	0.17	0.08	
1	DS1 4	Head	LTE Band 38	38150	2610.0	1RE99	Right TB	0mm		1	18.18	19.10	0.039	0.07	0.032	0.04	-0.08	
1	DS1 4	Head	LTE Band 38	38150	2610.0	SPR50	Right TB	0mm		1	18.31	19.10	0.063	0.08	0.034	0.04	-0.03	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Front	10mm		1	22.72	23.00	0.250	0.31	0.118	0.14	-0.11	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Front	10mm		1	22.78	23.00	0.224	0.28	0.110	0.13	0.09	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Rear	10mm		1	22.72	23.00	0.504	0.62	0.230	0.29	0.14	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Rear	10mm		1	22.78	23.00	0.449	0.60	0.227	0.28	-0.17	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Left	10mm	24	1	22.72	23.00	0.792	0.92	0.409	0.47	-0.05	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Left	10mm		1	22.78	23.00	0.648	0.79	0.278	0.34	-0.07	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	1RE99	Top	10mm		1	22.72	23.00	-0.01	-0.01	-0.01	-0.01	-	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	SPR50	Top	10mm		1	22.78	23.00	-0.01	-0.01	-0.01	-0.01	-	
1	DS1 10	Indoors	LTE Band 38	38000	2565.0	1RE99	Left	10mm		1	22.68	23.00	0.657	0.81	0.279	0.34	-0.10	
1	DS1 10	Indoors	LTE Band 38	38000	2565.0	SPR50	Left	10mm		1	22.61	23.00	0.620	0.75	0.286	0.34	-0.15	
1	DS1 10	Indoors	LTE Band 38	38000	2565.0	SPR50	Left	10mm		1	22.74	23.00	0.670	0.82	0.287	0.35	0.11	
1	DS1 10	Indoors	LTE Band 38	37850	2580.0	SPR50	Left	10mm		1	22.72	23.00	0.679	0.71	0.250	0.31	0.05	
1	DS1 10	Indoors	LTE Band 38	38150	2610.0	10R98	Right Cheek	0mm		1	22.69	23.00	0.667	0.80	0.272	0.34	0.08	
1	DS1 1	Indoors	LTE Band 38	38150	2610.0	ULCA	Left	10mm	CA 38C	1	21.75	22.00	0.664	0.78	0.250	0.30	0.08	
1	DS1 10	Body-Worn	LTE Band 38	38150	2610.0	1RE99	Front	10mm		1	22.72	23.00	0.080	0.11	0.046	0.06	0.05	
1	DS1 10	Body-Worn	LTE Band 38	38150	2610.0	SPR50	Front	10mm		1	22.78	23.00	0.060	0.10	0.040	0.05	0.14	
1	DS1 10	Body-Worn	LTE Band 38	38150	2610.0	1RE99	Rear	10mm		1	22.72	23.00	0.178	0.21	0.082	0.10	-0.11	
1	DS1 1	Body-Worn	LTE Band 38	38150	2610.0	ULCA	Rear	10mm	CA 38C	1	21.75	22.00	0.144	0.18	0.072	0.09	0.08	
4	DS1 2	Head	LTE Band 38	38150	2610.0	1RE99	Left Cheek	0mm		1	20.10	20.80	0.359	0.42	0.183	0.22	0.14	
4	DS1 2	Head	LTE Band 38	38150	2610.0	SPR50	Left Cheek	0mm		1	20.06	20.80	0.341	0.40	0.176	0.21	0.03	
4	DS1 2	Head	LTE Band 38	38150	2610.0	1RE99	Left TB	0mm		1	20.10	20.80	0.306	0.43	0.176	0.21	-0.01	
4	DS1 2	Head	LTE Band 38	38150	2610.0	SPR50	Left TB	0mm		23	1	20.08	20.80	0.355	0.42	0.172	0.20	-0.12
4	DS1 2	Head	LTE Band 38	38150	2610.0	1RE99	Right Cheek	0mm		1	20.10	20.80	0.499	0.56	0.265	0.33	0.02	
4	DS1 2	Head	LTE Band 38	38150	2610.0	SPR50	Right Cheek	0mm		1	20.08	20.80	0.587	1.04	0.344	0.81	0.03	
4	DS1 2	Head	LTE Band 38	38150	2610.0	1RE99	Right TB	0mm		1	20.10							



Table 12.13: LTE Band 41 SAR Values

ANT	Power Level	RF Exposure Condition	Frequency Band	Channel Number	Frequency (MHz)	Mode/RS	Test Position	Distance	Note	Figure No.	EMI Power (dBm)	Time up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power On/Off
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	-	-	23.67	24.00	0.044	0.05	0.020	0.02	0.01
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	-	-	22.57	23.00	-0.01	-0.01	-0.01	-0.01	-
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left TE	0mm	-	-	23.67	24.00	-0.01	-0.01	-0.01	-0.01	-
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left TE	0mm	-	-	22.57	23.00	-0.01	-0.01	-0.01	-0.01	-
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right Cheek	0mm	-	-	23.67	24.00	-0.01	-0.01	-0.01	-0.01	-
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right Cheek	0mm	-	-	22.57	23.00	-0.01	-0.01	-0.01	-0.01	-
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right TE	0mm	-	-	23.67	24.00	-0.01	-0.01	-0.01	-0.01	-
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right TE	0mm	-	-	22.57	23.00	-0.01	-0.01	-0.01	-0.01	-
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Bottom	10mm	-	-	23.67	24.00	0.035	0.04	0.005	0.04	0.01
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Bottom	10mm	-	-	22.57	23.00	0.035	0.04	0.005	0.04	0.01
0	DS1 2/4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	CA 41C	-	23.48	24.00	0.035	0.04	0.017	0.02	0.02
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Front	10mm	-	-	23.57	24.00	0.155	0.17	0.077	0.09	0.01
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Front	10mm	-	-	22.57	23.00	0.154	0.16	0.061	0.07	0.01
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	23.57	24.00	0.208	0.23	0.113	0.12	0.02
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	22.57	23.00	0.138	0.15	0.070	0.08	0.05
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	-	-	23.57	24.00	0.063	0.07	0.020	0.03	0.17
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	-	-	22.57	23.00	0.050	0.06	0.023	0.03	0.10
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Right	10mm	-	-	23.57	24.00	0.039	0.04	0.019	0.02	0.14
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Right	10mm	-	-	22.57	23.00	0.039	0.04	0.019	0.02	0.14
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Bottom	10mm	-	-	23.57	24.00	0.095	0.10	0.051	0.06	0.18
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Bottom	10mm	-	-	22.57	23.00	0.078	0.09	0.043	0.05	0.09
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	26.78	27.00	0.284	0.31	0.197	0.21	0.06
0	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	CA 41C	-	23.48	24.00	0.187	0.21	0.101	0.11	0.11
0	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Front	10mm	-	-	23.67	24.00	0.087	0.10	0.045	0.06	0.02
0	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Front	10mm	-	-	22.57	23.00	0.069	0.08	0.034	0.04	0.05
0	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	23.67	24.00	0.118	0.13	0.068	0.07	0.11
0	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	22.57	23.00	0.083	0.09	0.045	0.05	0.04
0	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	-	-	22.57	23.00	0.083	0.09	0.045	0.05	0.04
0	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	CA 41C	-	23.48	24.00	0.094	0.11	0.052	0.07	0.05
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	-	-	20.87	21.00	0.440	0.76	0.272	0.33	0.15
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	-	-	20.86	21.00	0.543	0.65	0.220	0.27	0.18
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left TE	0mm	-	-	20.87	21.00	0.072	0.09	0.037	0.04	0.17
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left TE	0mm	-	-	20.86	21.00	0.072	0.09	0.037	0.04	0.17
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right Cheek	0mm	-	-	20.87	21.00	0.051	0.07	0.023	0.03	0.12
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right Cheek	0mm	-	-	20.86	21.00	0.051	0.07	0.023	0.03	0.12
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right TE	0mm	-	-	20.87	21.00	0.100	0.12	0.053	0.06	0.08
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right TE	0mm	-	-	20.86	21.00	0.085	0.10	0.045	0.05	0.08
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Bottom	10mm	-	-	22.00	23.00	0.440	0.71	0.212	0.27	0.03
1	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Bottom	10mm	CA 41C	-	20.91	21.00	0.633	0.78	0.251	0.31	0.11
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	-	-	19.68	20.00	0.466	0.60	0.190	0.26	0.18
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	-	-	19.68	20.00	0.390	0.51	0.154	0.20	0.08
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left TE	0mm	-	-	19.68	20.00	0.052	0.07	0.027	0.03	0.03
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left TE	0mm	-	-	19.68	20.00	0.039	0.05	0.020	0.03	0.05
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right Cheek	0mm	-	-	19.68	20.00	0.096	0.13	0.051	0.07	0.03
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right Cheek	0mm	-	-	19.68	20.00	0.044	0.06	0.023	0.03	0.03
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right TE	0mm	-	-	19.68	20.00	0.072	0.09	0.037	0.05	0.08
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right TE	0mm	-	-	19.68	20.00	0.061	0.08	0.031	0.04	0.17
1	DS1 4	Head	LTE Band 41 PC2	41450	2580.0	RR80	Bottom	10mm	-	-	20.81	21.00	0.414	0.62	0.172	0.22	0.09
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Front	10mm	-	-	22.64	23.00	0.231	0.29	0.121	0.16	0.09
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Front	10mm	-	-	21.64	22.00	0.212	0.26	0.104	0.13	0.11
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	22.64	23.00	0.396	0.49	0.192	0.24	0.16
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	21.64	22.00	0.350	0.44	0.171	0.21	0.13
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	-	-	22.64	23.00	0.644	0.80	0.284	0.36	0.12
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	-	-	21.64	22.00	0.553	0.69	0.249	0.31	0.04
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Top	10mm	-	-	22.64	23.00	0.641	0.80	0.251	0.33	0.07
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Top	10mm	-	-	21.64	22.00	0.546	0.68	0.218	0.28	0.07
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	-	-	20.48	20.00	0.616	0.76	0.281	0.36	0.07
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	-	-	20.48	20.00	0.772	0.94	0.348	0.46	0.07
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Right	10mm	-	-	20.48	20.00	0.749	0.94	0.335	0.46	0.04
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Right	10mm	-	-	20.48	20.00	0.723	0.94	0.327	0.46	0.08
1	DS1 1/3	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Bottom	10mm	-	-	20.48	20.00	0.704	0.95	0.322	0.46	0.10
1	DS1 1	Handset	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	CA 41C	-	22.25	23.00	0.618	0.79	0.269	0.34	0.06
1	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Front	10mm	-	-	22.64	23.00	0.120	0.15	0.060	0.08	0.13
1	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Front	10mm	-	-	21.64	22.00	0.177	0.22	0.085	0.11	0.02
1	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	22.64	23.00	0.350	0.44	0.171	0.21	0.13
1	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Rear	10mm	-	-	21.64	22.00	0.350	0.44	0.171	0.21	0.13
1	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	-	-	22.64	23.00	0.618	0.79	0.269	0.34	0.06
1	DS1 1/3	Body-Worn	LTE Band 41 PC2	41450	2580.0	RR80	Left	10mm	CA 41C	-	22.25	23.00	0.618	0.79	0.269	0.34	0.06
4	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	-	-	18.49	19.00	0.242	0.27	0.123	0.14	0.04
4	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left Cheek	0mm	-	-	18.63	19.00	0.217	0.24	0.109	0.12	0.17
4	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left TE	0mm	-	-	18.49	19.00	0.046	0.06	0.026	0.03	0.15
4	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Left TE	0mm	-	-	18.63	19.00	0.037	0.05	0.014	0.02	0.05
4	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right Cheek	0mm	-	-	18.49	19.00	0.728	0.82	0.342	0.38	0.05
4	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right Cheek	0mm	-	-	18.63	19.00	0.647	0.76	0.301	0.33	0.03
4	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right TE	0mm	-	-	18.49	19.00	0.060	0.08	0.047	0.06	0.02
4	DS1 2	Head	LTE Band 41 PC2	41450	2580.0	RR80	Right TE	0mm	-	-	18.63	19.00	0.514	0.56	0.228</		



Table 12.14: NR n2 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	NR n2	376000	1880.0	50@25	Left Cheek	0mm	\	\	22.93	24.00	0.067	0.09	0.042	0.05	-0.09
0	DSI 2/4	Head	NR n2	376000	1880.0	50@25	Left Tilt	0mm	\	\	22.93	24.00	0.056	0.07	0.034	0.04	-0.13
0	DSI 2/4	Head	NR n2	376000	1880.0	50@25	Right Cheek	0mm	\	\	22.93	24.00	0.091	0.12	0.053	0.07	0.05
0	DSI 2/4	Head	NR n2	376000	1880.0	50@25	Right Tilt	0mm	\	\	22.93	24.00	0.053	0.07	0.032	0.04	-0.05
0	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Front	10mm	\	\	19.45	20.50	0.160	0.20	0.093	0.12	0.02
0	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Rear	10mm	\	\	19.45	20.50	0.211	0.27	0.114	0.15	-0.11
0	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Left	10mm	\	\	19.45	20.50	0.057	0.07	0.037	0.05	-0.06
0	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Right	10mm	\	\	19.45	20.50	0.033	0.04	0.020	0.02	0.05
0	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Bottom	10mm	\	28	19.45	20.50	0.482	0.61	0.258	0.33	0.03
0	DSI 1/3	Body-Worn	NR n2	376000	1880.0	50@25	Front	15mm	\	\	19.45	20.50	0.098	0.13	0.059	0.07	0.15
0	DSI 1/3	Body-Worn	NR n2	376000	1880.0	50@25	Rear	15mm	\	\	19.45	20.50	0.158	0.20	0.087	0.11	0.06
4	DSI 2	Head	NR n2	376000	1880.0	50@25	Left Cheek	0mm	\	\	15.79	16.50	0.275	0.32	0.164	0.19	-0.07
4	DSI 2	Head	NR n2	376000	1880.0	50@25	Left Tilt	0mm	\	\	15.79	16.50	0.275	0.32	0.157	0.18	-0.09
4	DSI 2	Head	NR n2	376000	1880.0	50@25	Right Cheek	0mm	\	\	15.79	16.50	0.688	0.81	0.320	0.38	-0.09
4	DSI 2	Head	NR n2	376000	1880.0	50@25	Right Tilt	0mm	\	\	15.79	16.50	0.442	0.52	0.228	0.27	0.02
4	DSI 2	Head	NR n2	380000	1900.0	50@25	Right Cheek	0mm	\	\	15.71	16.50	0.600	0.72	0.317	0.38	-0.08
4	DSI 2	Head	NR n2	372000	1860.0	50@25	Right Cheek	0mm	\	27	15.78	16.50	0.746	0.88	0.385	0.45	0.03
4	DSI 4	Head	NR n2	376000	1880.0	50@25	Left Cheek	0mm	\	\	14.80	15.50	0.217	0.25	0.128	0.15	0.03
4	DSI 4	Head	NR n2	376000	1880.0	50@25	Left Tilt	0mm	\	\	14.80	15.50	0.217	0.25	0.123	0.14	0.00
4	DSI 4	Head	NR n2	376000	1880.0	50@25	Right Cheek	0mm	\	\	14.80	15.50	0.481	0.57	0.250	0.29	0.15
4	DSI 4	Head	NR n2	376000	1880.0	50@25	Right Tilt	0mm	\	\	14.80	15.50	0.350	0.41	0.178	0.21	-0.08
4	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Front	10mm	\	\	20.80	21.50	0.300	0.35	0.181	0.21	0.05
4	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Rear	10mm	\	\	20.80	21.50	0.347	0.41	0.059	0.07	0.01
4	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Left	10mm	\	\	20.80	21.50	0.285	0.33	0.168	0.20	-0.08
4	DSI 1/3	Hotspot	NR n2	376000	1880.0	50@25	Top	10mm	\	\	20.80	21.50	0.449	0.53	0.270	0.32	0.01
4	DSI 1/3	Body-Worn	NR n2	376000	1880.0	50@25	Front	15mm	\	\	20.80	21.50	0.218	0.26	0.129	0.15	0.07
4	DSI 1/3	Body-Worn	NR n2	376000	1880.0	50@25	Rear	15mm	\	\	20.80	21.50	0.269	0.32	0.167	0.20	-0.05

Table 12.15: NR n5 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	NR n5	167300	836.5	50@25	Left Cheek	0mm	\	\	23.98	25.00	0.131	0.17	0.094	0.12	0.04
0	DSI 2/4	Head	NR n5	167300	836.5	50@25	Left Tilt	0mm	\	\	23.98	25.00	0.079	0.10	0.059	0.07	0.01
0	DSI 2/4	Head	NR n5	167300	836.5	50@25	Right Cheek	0mm	\	\	23.98	25.00	0.127	0.16	0.090	0.11	0.14
0	DSI 2/4	Head	NR n5	167300	836.5	50@25	Right Tilt	0mm	\	\	23.98	25.00	0.070	0.09	0.051	0.06	-0.13
0	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Front	10mm	\	\	23.98	25.00	0.218	0.28	0.138	0.17	0.04
0	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Rear	10mm	\	\	23.98	25.00	0.303	0.38	0.189	0.24	0.12
0	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Left	10mm	\	\	23.98	25.00	0.082	0.10	0.055	0.07	-0.08
0	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Right	10mm	\	\	23.98	25.00	0.079	0.10	0.052	0.07	0.12
0	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Bottom	10mm	\	\	23.98	25.00	0.160	0.20	0.086	0.11	0.07
0	DSI 1/3	Body-Worn	NR n5	167300	836.5	50@25	Front	15mm	\	\	23.98	25.00	0.136	0.17	0.089	0.11	0.03
0	DSI 1/3	Body-Worn	NR n5	167300	836.5	50@25	Rear	15mm	\	\	23.98	25.00	0.140	0.18	0.095	0.12	-0.03
1	DSI 2	Head	NR n5	167300	836.5	50@25	Left Cheek	0mm	\	\	19.88	21.00	0.257	0.33	0.170	0.22	-0.03
1	DSI 2	Head	NR n5	167300	836.5	50@25	Left Tilt	0mm	\	\	19.88	21.00	0.115	0.15	0.075	0.10	-0.13
1	DSI 2	Head	NR n5	167300	836.5	50@25	Right Cheek	0mm	\	29	19.88	21.00	0.631	0.82	0.330	0.43	-0.02
1	DSI 2	Head	NR n5	167300	836.5	50@25	Right Tilt	0mm	\	\	19.88	21.00	0.223	0.29	0.134	0.17	0.01
1	DSI 2	Head	NR n5	167800	839.0	50@25	Right Cheek	0mm	\	\	19.80	21.00	0.579	0.76	0.314	0.41	0.13
1	DSI 2	Head	NR n5	166800	834.0	50@25	Right Cheek	0mm	\	\	19.82	21.00	0.618	0.81	0.322	0.42	0.09
1	DSI 4	Head	NR n5	167300	836.5	50@25	Left Cheek	0mm	\	\	18.36	19.50	0.174	0.23	0.116	0.15	0.18
1	DSI 4	Head	NR n5	167300	836.5	50@25	Left Tilt	0mm	\	\	18.36	19.50	0.078	0.10	0.051	0.07	0.08
1	DSI 4	Head	NR n5	167300	836.5	50@25	Right Cheek	0mm	\	\	18.36	19.50	0.426	0.55	0.225	0.29	0.10
1	DSI 4	Head	NR n5	167300	836.5	50@25	Right Tilt	0mm	\	\	18.36	19.50	0.151	0.20	0.091	0.12	-0.03
1	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Front	10mm	\	\	22.17	23.30	0.280	0.36	0.156	0.20	0.08
1	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Rear	10mm	\	\	22.17	23.30	0.405	0.53	0.227	0.29	0.06
1	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Left	10mm	\	30	22.17	23.30	0.512	0.66	0.274	0.36	0.09
1	DSI 1/3	Hotspot	NR n5	167300	836.5	50@25	Top	10mm	\	\	22.17	23.30	0.056	0.07	0.034	0.04	0.01
1	DSI 1/3	Body-Worn	NR n5	167300	836.5	50@25	Front	15mm	\	\	22.17	23.30	0.173	0.22	0.113	0.15	0.08
1	DSI 1/3	Body-Worn	NR n5	167300	836.5	50@25	Rear	15mm	\	\	22.17	23.30	0.251	0.33	0.159	0.21	-0.10



Table 12.16: NR n7 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	NR n7	507000	2535.0	135@67	Left Cheek	0mm	\	\	23.34	24.00	0.155	0.18	0.076	0.09	0.08
0	DSI 2/4	Head	NR n7	507000	2535.0	135@67	Left Tilt	0mm	\	\	23.34	24.00	0.041	0.05	0.021	0.02	-0.07
0	DSI 2/4	Head	NR n7	507000	2535.0	135@67	Right Cheek	0mm	\	\	23.34	24.00	0.062	0.07	0.032	0.04	0.02
0	DSI 2/4	Head	NR n7	507000	2535.0	135@67	Right Tilt	0mm	\	\	23.34	24.00	0.066	0.08	0.034	0.04	0.05
0	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Front	10mm	\	\	23.34	24.00	0.347	0.40	0.181	0.21	-0.05
0	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Rear	10mm	\	\	23.34	24.00	0.476	0.55	0.254	0.30	0.15
0	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Left	10mm	\	\	23.34	24.00	0.152	0.18	0.077	0.09	-0.11
0	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Right	10mm	\	\	23.34	24.00	0.166	0.19	0.082	0.10	0.18
0	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Bottom	10mm	\	\	23.34	24.00	0.630	0.73	0.342	0.40	0.19
0	DSI 1/3	Body-Worn	NR n7	507000	2535.0	135@67	Front	15mm	\	\	23.34	24.00	0.192	0.22	0.112	0.13	0.09
0	DSI 1/3	Body-Worn	NR n7	507000	2535.0	135@67	Rear	15mm	\	\	23.34	24.00	0.263	0.31	0.153	0.18	0.06
1	DSI 2	Head	NR n7	507000	2535.0	135@67	Left Cheek	0mm	\	\	21.49	21.70	0.977	1.03	0.431	0.45	-0.02
1	DSI 2	Head	NR n7	507000	2535.0	135@67	Left Tilt	0mm	\	\	21.49	21.70	0.137	0.14	0.071	0.07	0.05
1	DSI 2	Head	NR n7	507000	2535.0	135@67	Right Cheek	0mm	\	\	21.49	21.70	1.080	1.13	0.492	0.52	-0.13
1	DSI 2	Head	NR n7	507000	2535.0	135@67	Right Tilt	0mm	\	\	21.49	21.70	0.248	0.26	0.124	0.13	0.06
1	DSI 2	Head	NR n7	509000	2545.0	135@67	Left Cheek	0mm	\	\	21.45	21.70	0.982	1.04	0.433	0.46	0.08
1	DSI 2	Head	NR n7	505000	2525.0	135@67	Left Cheek	0mm	\	\	21.44	21.70	0.985	1.05	0.437	0.46	0.04
1	DSI 2	Head	NR n7	509000	2545.0	135@67	Right Cheek	0mm	\	\	21.45	21.70	1.090	1.15	0.492	0.52	-0.05
1	DSI 2	Head	NR n7	505000	2525.0	135@67	Right Cheek	0mm	\	31	21.44	21.70	1.090	1.16	0.496	0.53	0.06
1	DSI 4	Head	NR n7	507000	2535.0	135@67	Left Cheek	0mm	\	\	17.48	17.70	0.386	0.41	0.170	0.18	0.14
1	DSI 4	Head	NR n7	507000	2535.0	135@67	Left Tilt	0mm	\	\	17.48	17.70	0.054	0.06	0.028	0.03	-0.11
1	DSI 4	Head	NR n7	507000	2535.0	135@67	Right Cheek	0mm	\	\	17.48	17.70	0.427	0.45	0.194	0.20	-0.06
1	DSI 4	Head	NR n7	507000	2535.0	135@67	Right Tilt	0mm	\	\	17.48	17.70	0.098	0.10	0.049	0.05	0.02
1	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Front	10mm	\	\	22.51	22.70	0.382	0.40	0.178	0.19	0.00
1	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Rear	10mm	\	\	22.51	22.70	0.657	0.69	0.315	0.33	0.13
1	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Left	10mm	\	\	22.51	22.70	0.884	0.92	0.381	0.40	-0.03
1	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Top	10mm	\	\	22.51	22.70	0.063	0.07	0.034	0.04	-0.07
1	DSI 1/3	Hotspot	NR n7	509000	2545.0	135@67	Left	10mm	\	\	22.48	22.70	0.807	0.85	0.357	0.38	0.10
1	DSI 1/3	Hotspot	NR n7	505000	2525.0	135@67	Left	10mm	\	32	22.43	22.70	0.911	0.97	0.395	0.42	0.16
1	DSI 1/3	Body-Worn	NR n7	507000	2535.0	135@67	Front	15mm	\	\	22.51	22.70	0.153	0.16	0.082	0.09	0.16
1	DSI 1/3	Body-Worn	NR n7	507000	2535.0	135@67	Rear	15mm	\	\	22.51	22.70	0.275	0.29	0.141	0.15	-0.01
4	DSI 2	Head	NR n7	507000	2535.0	135@67	Left Cheek	0mm	\	\	17.88	18.50	0.231	0.27	0.130	0.15	0.07
4	DSI 2	Head	NR n7	507000	2535.0	135@67	Left Tilt	0mm	\	\	17.88	18.50	0.259	0.30	0.135	0.16	-0.04
4	DSI 2	Head	NR n7	507000	2535.0	135@67	Right Cheek	0mm	\	\	17.88	18.50	0.717	0.83	0.329	0.38	-0.04
4	DSI 2	Head	NR n7	507000	2535.0	135@67	Right Tilt	0mm	\	\	17.88	18.50	0.522	0.60	0.233	0.27	-0.06
4	DSI 2	Head	NR n7	509000	2545.0	135@67	Right Cheek	0mm	\	\	17.81	18.50	0.749	0.88	0.340	0.40	0.00
4	DSI 2	Head	NR n7	505000	2525.0	135@67	Right Cheek	0mm	\	\	17.80	18.50	0.736	0.86	0.337	0.40	-0.13
4	DSI 4	Head	NR n7	507000	2535.0	135@67	Left Cheek	0mm	\	\	16.37	17.00	0.198	0.23	0.107	0.12	0.03
4	DSI 4	Head	NR n7	507000	2535.0	135@67	Left Tilt	0mm	\	\	16.37	17.00	0.222	0.26	0.112	0.13	-0.09
4	DSI 4	Head	NR n7	507000	2535.0	135@67	Right Cheek	0mm	\	\	16.37	17.00	0.615	0.71	0.272	0.31	0.03
4	DSI 4	Head	NR n7	507000	2535.0	135@67	Right Tilt	0mm	\	\	16.37	17.00	0.447	0.52	0.193	0.22	0.02
4	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Front	10mm	\	\	22.19	22.80	0.328	0.38	0.168	0.19	-0.11
4	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Rear	10mm	\	\	22.19	22.80	0.497	0.57	0.261	0.30	0.03
4	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Left	10mm	\	\	22.19	22.80	0.357	0.41	0.183	0.21	0.09
4	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Top	10mm	\	\	22.19	22.80	0.513	0.59	0.258	0.30	0.06
4	DSI 1/3	Body-Worn	NR n7	507000	2535.0	135@67	Front	15mm	\	\	22.19	22.80	0.190	0.22	0.101	0.12	0.16
4	DSI 1/3	Body-Worn	NR n7	507000	2535.0	135@67	Rear	15mm	\	\	22.19	22.80	0.248	0.29	0.135	0.16	0.06
5	DSI 2	Head	NR n7	507000	2535.0	135@67	Left Cheek	0mm	\	\	21.10	21.50	0.426	0.47	0.191	0.21	-0.02
5	DSI 2	Head	NR n7	507000	2535.0	135@67	Left Tilt	0mm	\	\	21.10	21.50	0.100	0.11	0.048	0.05	0.01
5	DSI 2	Head	NR n7	507000	2535.0	135@67	Right Cheek	0mm	\	\	21.10	21.50	0.693	0.76	0.319	0.35	-0.06
5	DSI 2	Head	NR n7	507000	2535.0	135@67	Right Tilt	0mm	\	\	21.10	21.50	0.107	0.12	0.054	0.06	0.08
5	DSI 4	Head	NR n7	507000	2535.0	135@67	Left Cheek	0mm	\	\	19.52	20.00	0.197	0.22	0.096	0.11	-0.19
5	DSI 4	Head	NR n7	507000	2535.0	135@67	Left Tilt	0mm	\	\	19.52	20.00	0.046	0.05	0.024	0.03	0.15
5	DSI 4	Head	NR n7	507000	2535.0	135@67	Right Cheek	0mm	\	\	19.52	20.00	0.321	0.36	0.160	0.18	-0.13
5	DSI 4	Head	NR n7	507000	2535.0	135@67	Right Tilt	0mm	\	\	19.52	20.00	0.050	0.06	0.027	0.03	-0.07
5	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Front	10mm	\	\	20.11	20.50	0.174	0.19	0.081	0.09	0.01
5	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Rear	10mm	\	\	20.11	20.50	0.305	0.33	0.138	0.15	-0.07
5	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Right	10mm	\	\	20.11	20.50	0.626	0.68	0.278	0.30	0.17
5	DSI 1/3	Hotspot	NR n7	507000	2535.0	135@67	Top	10mm	\	\	20.11	20.50	<0.01	<0.01	<0.01	<0.01	\
5	DSI 1/3	Body-Worn	NR n7	507000	2535.0	135@67	Front	15mm	\	\	20.11	20.50	0.089	0.10	0.046	0.05	0.03
5	DSI 1/3	Body-Worn	NR n7	507000	2535.0	135@67	Rear	15mm	\	\	20.11	20.50	0.156	0.17	0.081	0.09	-0.06



Table 12.17: NR n66 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	24.29	25.00	0.097	0.11	0.062	0.07	0.05
0	DSI 2/4	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	24.29	25.00	0.066	0.08	0.041	0.05	-0.04
0	DSI 2/4	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	24.29	25.00	0.135	0.16	0.080	0.09	0.16
0	DSI 2/4	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	24.29	25.00	0.069	0.08	0.042	0.05	-0.02
0	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Front	10mm	\	\	21.31	22.00	0.277	0.32	0.156	0.18	-0.11
0	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Rear	10mm	\	\	21.31	22.00	0.360	0.42	0.197	0.23	-0.05
0	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Left	10mm	\	\	21.31	22.00	0.124	0.15	0.071	0.08	0.17
0	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Right	10mm	\	\	21.31	22.00	0.043	0.05	0.025	0.03	-0.10
0	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Bottom	10mm	\	\	21.31	22.00	0.598	0.70	0.330	0.39	0.01
0	DSI 1/3	Body-Worn	NR n66	349000	1745.0	108@54	Front	15mm	\	\	21.31	22.00	0.186	0.22	0.122	0.14	0.08
0	DSI 1/3	Body-Worn	NR n66	349000	1745.0	108@54	Rear	15mm	\	\	21.31	22.00	0.209	0.24	0.127	0.15	0.03
1	DSI 2	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	22.40	22.60	0.500	0.52	0.259	0.27	0.15
1	DSI 2	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	22.40	22.60	0.158	0.17	0.095	0.10	-0.04
1	DSI 2	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	22.40	22.60	0.873	0.91	0.436	0.46	-0.14
1	DSI 2	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	22.40	22.60	0.196	0.21	0.113	0.12	0.06
1	DSI 2	Head	NR n66	352000	1760.0	108@54	Right Cheek	0mm	\	\	22.37	22.60	0.928	0.98	0.462	0.49	0.11
1	DSI 2	Head	NR n66	346000	1730.0	108@54	Right Cheek	0mm	\	\	22.34	22.60	0.720	0.76	0.350	0.37	-0.02
1	DSI 4	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	20.38	20.60	0.329	0.35	0.170	0.18	-0.08
1	DSI 4	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	20.38	20.60	0.104	0.11	0.062	0.07	0.14
1	DSI 4	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	20.38	20.60	0.575	0.60	0.286	0.30	-0.10
1	DSI 4	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	20.38	20.60	0.129	0.14	0.074	0.08	-0.11
1	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Front	10mm	\	\	23.37	23.60	0.299	0.32	0.170	0.18	0.00
1	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Rear	10mm	\	\	23.37	23.60	0.459	0.48	0.249	0.26	-0.08
1	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Left	10mm	\	\	23.37	23.60	0.781	0.82	0.401	0.42	0.16
1	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Top	10mm	\	\	23.37	23.60	0.082	0.09	0.048	0.05	0.07
1	DSI 1/3	Hotspot	NR n66	352000	1760.0	108@54	Left	10mm	\	34	23.35	23.60	0.963	1.02	0.504	0.53	-0.02
1	DSI 1/3	Hotspot	NR n66	346000	1730.0	108@54	Left	10mm	\	\	23.32	23.60	0.701	0.75	0.369	0.39	0.07
1	DSI 1/3	Body-Worn	NR n66	349000	1745.0	108@54	Front	15mm	\	\	23.37	23.60	0.182	0.19	0.109	0.11	0.11
1	DSI 1/3	Body-Worn	NR n66	349000	1745.0	108@54	Rear	15mm	\	\	23.37	23.60	0.260	0.27	0.150	0.16	-0.04
4	DSI 2	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	18.26	18.30	0.305	0.31	0.184	0.19	0.08
4	DSI 2	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	18.26	18.30	0.349	0.35	0.197	0.20	0.05
4	DSI 2	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	18.26	18.30	0.915	0.92	0.480	0.48	-0.02
4	DSI 2	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	18.26	18.30	0.666	0.67	0.339	0.34	0.08
4	DSI 2	Head	NR n66	352000	1760.0	108@54	Right Cheek	0mm	\	33	18.21	18.30	0.990	1.01	0.520	0.53	0.08
4	DSI 2	Head	NR n66	346000	1730.0	108@54	Right Cheek	0mm	\	\	18.20	18.30	0.728	0.74	0.405	0.41	-0.12
4	DSI 4	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	16.25	16.30	0.201	0.20	0.119	0.12	-0.05
4	DSI 4	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	16.25	16.30	0.230	0.23	0.127	0.13	0.08
4	DSI 4	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	16.25	16.30	0.604	0.61	0.310	0.31	0.02
4	DSI 4	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	16.25	16.30	0.439	0.44	0.219	0.22	0.02
4	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Front	10mm	\	\	21.75	21.80	0.234	0.24	0.147	0.15	-0.07
4	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Rear	10mm	\	\	21.75	21.80	0.275	0.28	0.171	0.17	0.16
4	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Left	10mm	\	\	21.75	21.80	0.197	0.20	0.118	0.12	0.11
4	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Top	10mm	\	\	21.75	21.80	0.425	0.43	0.256	0.26	0.17
4	DSI 1/3	Body-Worn	NR n66	349000	1745.0	108@54	Front	15mm	\	\	21.75	21.80	0.153	0.15	0.101	0.10	0.11
4	DSI 1/3	Body-Worn	NR n66	349000	1745.0	108@54	Rear	15mm	\	\	21.75	21.80	0.169	0.17	0.107	0.11	-0.05
5	DSI 2	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	23.81	24.00	0.914	0.95	0.441	0.46	-0.02
5	DSI 2	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	23.81	24.00	0.212	0.22	0.119	0.12	0.17
5	DSI 2	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	23.81	24.00	0.807	0.84	0.383	0.40	0.12
5	DSI 2	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	23.81	24.00	0.162	0.17	0.095	0.10	0.10
5	DSI 2	Head	NR n66	352000	1760.0	108@54	Left Cheek	0mm	\	\	23.75	24.00	0.814	0.86	0.393	0.42	0.08
5	DSI 2	Head	NR n66	346000	1730.0	108@54	Left Cheek	0mm	\	\	23.73	24.00	0.909	0.97	0.432	0.46	0.04
5	DSI 2	Head	NR n66	352000	1760.0	108@54	Right Cheek	0mm	\	\	23.75	24.00	0.719	0.76	0.341	0.36	-0.05
5	DSI 2	Head	NR n66	346000	1730.0	108@54	Right Cheek	0mm	\	\	23.73	24.00	0.803	0.85	0.375	0.40	-0.13
5	DSI 4	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	\	\	20.35	20.50	0.386	0.40	0.185	0.19	0.13
5	DSI 4	Head	NR n66	349000	1745.0	108@54	Left Tilt	0mm	\	\	20.35	20.50	0.089	0.09	0.050	0.05	0.18
5	DSI 4	Head	NR n66	349000	1745.0	108@54	Right Cheek	0mm	\	\	20.35	20.50	0.341	0.35	0.160	0.17	-0.17
5	DSI 4	Head	NR n66	349000	1745.0	108@54	Right Tilt	0mm	\	\	20.35	20.50	0.069	0.07	0.040	0.04	0.13
5	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Front	10mm	\	\	22.82	23.00	0.283	0.29	0.149	0.16	-0.09
5	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Rear	10mm	\	\	22.82	23.00	0.536	0.56	0.278	0.29	0.17
5	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Left	10mm	\	\	22.82	23.00	0.913	0.95	0.425	0.44	-0.12
5	DSI 1/3	Hotspot	NR n66	349000	1745.0	108@54	Top	10mm	\	\	22.82	23.00	0.042	0.04	0.025	0.03	-0.02
5	DSI 1/3	Hotspot	NR n66	352000	1760.0	108@54	Right	10mm	\	\	22.77	23.00	0.933	0.98	0.456	0.48	0.15
5	DSI 1/3	Hotspot	NR n66	346000	1730.0	108@54	Right	10mm	\	\	22.75	23.00	0.720	0.76	0.351	0.37	-0.09
5	DSI 1/3	Body-Worn	NR n66	349000	1745.0	108@54	Front	15mm	\	\	22.82	23.00	0.221	0.23	0.123	0.13	0.03
5	DSI 1/3	Body-Worn	NR n66	349000	1745.0	108@54	Rear	15mm	\	\	22.82	23.00	0.363	0.38	0.206	0.21	-0.02



Table 12.18: NR n38 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	NR n38	519000	2595.0	50@25	Left Cheek	0mm	\	\	24.55	25.00	0.165	0.18	0.079	0.09	0.10
0	DSI 2/4	Head	NR n38	519000	2595.0	50@25	Left Tilt	0mm	\	\	24.55	25.00	0.062	0.07	0.032	0.04	0.13
0	DSI 2/4	Head	NR n38	519000	2595.0	50@25	Right Cheek	0mm	\	\	24.55	25.00	0.057	0.06	0.031	0.03	0.10
0	DSI 2/4	Head	NR n38	519000	2595.0	50@25	Right Tilt	0mm	\	\	24.55	25.00	0.087	0.10	0.044	0.05	-0.06
0	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Front	10mm	\	\	24.55	25.00	0.380	0.42	0.196	0.22	-0.10
0	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Rear	10mm	\	\	24.55	25.00	0.471	0.52	0.271	0.30	0.00
0	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Left	10mm	\	\	24.55	25.00	0.151	0.17	0.079	0.09	0.09
0	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Right	10mm	\	\	24.55	25.00	0.163	0.18	0.087	0.10	-0.03
0	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Bottom	10mm	\	\	24.55	25.00	0.490	0.54	0.274	0.30	0.05
0	DSI 1/3	Body-Worn	NR n38	519000	2595.0	50@25	Front	15mm	\	\	24.55	25.00	0.183	0.20	0.102	0.11	-0.11
0	DSI 1/3	Body-Worn	NR n38	519000	2595.0	50@25	Rear	15mm	\	\	24.55	25.00	0.252	0.28	0.147	0.16	0.07
1	DSI 2	Head	NR n38	519000	2595.0	50@25	Left Cheek	0mm	\	\	20.34	20.60	0.706	0.75	0.310	0.33	-0.07
1	DSI 2	Head	NR n38	519000	2595.0	50@25	Left Tilt	0mm	\	\	20.34	20.60	0.075	0.08	0.040	0.04	-0.05
1	DSI 2	Head	NR n38	519000	2595.0	50@25	Right Cheek	0mm	\	\	20.34	20.60	0.631	0.67	0.292	0.31	-0.13
1	DSI 2	Head	NR n38	519000	2595.0	50@25	Right Tilt	0mm	\	\	20.34	20.60	0.155	0.16	0.079	0.08	-0.02
1	DSI 4	Head	NR n38	519000	2595.0	50@25	Left Cheek	0mm	\	\	17.44	17.60	0.375	0.39	0.161	0.17	0.13
1	DSI 4	Head	NR n38	519000	2595.0	50@25	Left Tilt	0mm	\	\	17.44	17.60	0.053	0.05	0.021	0.02	0.08
1	DSI 4	Head	NR n38	519000	2595.0	50@25	Right Cheek	0mm	\	\	17.44	17.60	0.442	0.46	0.151	0.16	-0.13
1	DSI 4	Head	NR n38	519000	2595.0	50@25	Right Tilt	0mm	\	\	17.44	17.60	0.109	0.11	0.041	0.04	-0.11
1	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Front	10mm	\	\	22.36	22.60	0.288	0.30	0.137	0.14	0.03
1	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Rear	10mm	\	\	22.36	22.60	0.656	0.69	0.286	0.30	-0.03
1	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Left	10mm	\	\	22.36	22.60	0.828	0.88	0.336	0.36	-0.09
1	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Top	10mm	\	\	22.36	22.60	0.049	0.05	0.028	0.03	-0.01
1	DSI 1/3	Hotspot	NR n38	520000	2600.0	50@25	Left	10mm	\	36	22.29	22.60	0.908	0.98	0.385	0.41	-0.05
1	DSI 1/3	Hotspot	NR n38	518000	2590.0	50@25	Left	10mm	\	\	22.25	22.60	0.844	0.91	0.353	0.38	-0.15
1	DSI 1/3	Body-Worn	NR n38	519000	2595.0	50@25	Front	15mm	\	\	22.36	22.60	0.139	0.15	0.074	0.08	-0.08
1	DSI 1/3	Body-Worn	NR n38	519000	2595.0	50@25	Rear	15mm	\	\	22.36	22.60	0.328	0.35	0.165	0.17	0.09
4	DSI 2	Head	NR n38	519000	2595.0	50@25	Left Cheek	0mm	\	\	17.15	17.50	0.231	0.25	0.115	0.12	0.10
4	DSI 2	Head	NR n38	519000	2595.0	50@25	Left Tilt	0mm	\	\	17.15	17.50	0.253	0.27	0.126	0.14	-0.01
4	DSI 2	Head	NR n38	519000	2595.0	50@25	Right Cheek	0mm	\	\	17.15	17.50	0.775	0.84	0.331	0.36	-0.07
4	DSI 2	Head	NR n38	519000	2595.0	50@25	Right Tilt	0mm	\	\	17.15	17.50	0.665	0.72	0.278	0.30	0.17
4	DSI 2	Head	NR n38	520000	2600.0	50@25	Right Cheek	0mm	\	35	17.11	17.50	0.859	0.94	0.366	0.40	-0.08
4	DSI 2	Head	NR n38	518000	2590.0	50@25	Right Cheek	0mm	\	\	17.06	17.50	0.801	0.89	0.340	0.38	-0.13
4	DSI 4	Head	NR n38	519000	2595.0	50@25	Left Cheek	0mm	\	\	15.63	16.00	0.176	0.19	0.087	0.10	0.04
4	DSI 4	Head	NR n38	519000	2595.0	50@25	Left Tilt	0mm	\	\	15.63	16.00	0.193	0.21	0.096	0.10	0.17
4	DSI 4	Head	NR n38	519000	2595.0	50@25	Right Cheek	0mm	\	\	15.63	16.00	0.590	0.64	0.251	0.27	-0.01
4	DSI 4	Head	NR n38	519000	2595.0	50@25	Right Tilt	0mm	\	\	15.63	16.00	0.506	0.55	0.211	0.23	0.04
4	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Front	10mm	\	\	22.41	22.80	0.458	0.50	0.237	0.26	-0.07
4	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Rear	10mm	\	\	22.41	22.80	0.670	0.73	0.343	0.38	-0.09
4	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Left	10mm	\	\	22.41	22.80	0.435	0.48	0.231	0.25	-0.14
4	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Top	10mm	\	\	22.41	22.80	0.523	0.57	0.265	0.29	-0.10
4	DSI 1/3	Body-Worn	NR n38	519000	2595.0	50@25	Front	15mm	\	\	22.41	22.80	0.224	0.25	0.116	0.13	0.09
4	DSI 1/3	Body-Worn	NR n38	519000	2595.0	50@25	Rear	15mm	\	\	22.41	22.80	0.310	0.34	0.167	0.18	0.05
5	DSI 2/4	Head	NR n38	519000	2595.0	50@25	Left Cheek	0mm	\	\	20.40	20.50	0.291	0.30	0.136	0.14	0.08
5	DSI 2/4	Head	NR n38	519000	2595.0	50@25	Left Tilt	0mm	\	\	20.40	20.50	0.073	0.08	0.032	0.03	0.03
5	DSI 2/4	Head	NR n38	519000	2595.0	50@25	Right Cheek	0mm	\	\	20.40	20.50	0.599	0.61	0.279	0.29	0.04
5	DSI 2/4	Head	NR n38	519000	2595.0	50@25	Right Tilt	0mm	\	\	20.40	20.50	0.075	0.08	0.033	0.03	0.09
5	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Front	10mm	\	\	20.40	20.50	0.167	0.17	0.084	0.09	0.11
5	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Rear	10mm	\	\	20.40	20.50	0.313	0.32	0.156	0.16	-0.16
5	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Right	10mm	\	\	20.40	20.50	0.618	0.63	0.282	0.29	0.05
5	DSI 1/3	Hotspot	NR n38	519000	2595.0	50@25	Top	10mm	\	\	20.40	20.50	<0.01	<0.01	<0.01	<0.01	\
5	DSI 1/3	Body-Worn	NR n38	519000	2595.0	50@25	Front	15mm	\	\	20.40	20.50	0.115	0.12	0.062	0.06	-0.05
5	DSI 1/3	Body-Worn	NR n38	519000	2595.0	50@25	Rear	15mm	\	\	20.40	20.50	0.195	0.20	0.104	0.11	0.04



Table 12.19: NR n41 PC2 SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
0	DSI 2/4	Head	NR n41	518598	2593.0	135@67	Left Cheek	0mm	\	\	27.08	28.00	0.309	0.38	0.150	0.19	0.11
0	DSI 2/4	Head	NR n41	518598	2593.0	135@67	Left Tilt	0mm	\	\	27.08	28.00	0.127	0.16	0.066	0.08	0.08
0	DSI 2/4	Head	NR n41	518598	2593.0	135@67	Right Cheek	0mm	\	\	27.08	28.00	0.112	0.14	0.058	0.07	-0.11
0	DSI 2/4	Head	NR n41	518598	2593.0	135@67	Right Tilt	0mm	\	\	27.08	28.00	0.159	0.20	0.080	0.10	0.03
0	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Front	10mm	\	\	24.59	25.50	0.425	0.52	0.215	0.27	0.16
0	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Rear	10mm	\	\	24.59	25.50	0.504	0.62	0.270	0.33	-0.15
0	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Left	10mm	\	\	24.59	25.50	0.201	0.25	0.101	0.12	0.01
0	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Right	10mm	\	\	24.59	25.50	0.164	0.20	0.082	0.10	0.11
0	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Bottom	10mm	\	\	24.59	25.50	0.526	0.65	0.294	0.36	0.09
0	DSI 1/3	Body-Worn	NR n41	518598	2593.0	135@67	Front	15mm	\	\	24.59	25.50	0.294	0.36	0.151	0.19	0.05
0	DSI 1/3	Body-Worn	NR n41	518598	2593.0	135@67	Rear	15mm	\	\	24.59	25.50	0.358	0.44	0.205	0.25	0.01
1	DSI 2	Head	NR n41	518598	2593.0	135@67	Left Cheek	0mm	\	\	18.47	19.50	0.624	0.79	0.269	0.34	-0.10
1	DSI 2	Head	NR n41	518598	2593.0	135@67	Left Tilt	0mm	\	\	18.47	19.50	0.069	0.09	0.034	0.04	-0.12
1	DSI 2	Head	NR n41	518598	2593.0	135@67	Right Cheek	0mm	\	\	18.47	19.50	0.632	0.80	0.283	0.36	0.07
1	DSI 2	Head	NR n41	518598	2593.0	135@67	Right Tilt	0mm	\	\	18.47	19.50	0.134	0.17	0.068	0.09	-0.10
1	DSI 2	Head	NR n41	528000	2640.0	135@67	Right Cheek	0mm	\	\	18.10	19.50	0.721	1.00	0.328	0.45	-0.05
1	DSI 2	Head	NR n41	509202	2546.0	135@67	Right Cheek	0mm	\	\	18.45	19.50	0.593	0.76	0.266	0.34	0.16
1	DSI 4	Head	NR n41	518598	2593.0	135@67	Left Cheek	0mm	\	\	15.46	16.50	0.244	0.31	0.103	0.13	0.14
1	DSI 4	Head	NR n41	518598	2593.0	135@67	Left Tilt	0mm	\	\	15.46	16.50	0.027	0.03	0.013	0.02	0.10
1	DSI 4	Head	NR n41	518598	2593.0	135@67	Right Cheek	0mm	\	\	15.46	16.50	0.247	0.31	0.108	0.14	-0.02
1	DSI 4	Head	NR n41	518598	2593.0	135@67	Right Tilt	0mm	\	\	15.46	16.50	0.052	0.07	0.026	0.03	-0.03
1	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Front	10mm	\	\	19.66	20.70	0.238	0.30	0.114	0.14	0.01
1	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Rear	10mm	\	\	19.66	20.70	0.514	0.65	0.236	0.30	-0.14
1	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Left	10mm	\	\	19.66	20.70	0.636	0.81	0.270	0.34	0.07
1	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Top	10mm	\	\	19.66	20.70	0.037	0.05	0.022	0.03	-0.01
1	DSI 1/3	Hotspot	NR n41	528000	2640.0	135@67	Left	10mm	\	\	19.34	20.70	0.799	1.09	0.340	0.47	-0.06
1	DSI 1/3	Hotspot	NR n41	509202	2546.0	135@67	Left	10mm	\	\	19.60	20.70	0.601	0.77	0.263	0.34	0.12
1	DSI 1/3	Body-Worn	NR n41	518598	2593.0	135@67	Front	15mm	\	\	19.66	20.70	0.156	0.20	0.079	0.10	0.08
1	DSI 1/3	Body-Worn	NR n41	518598	2593.0	135@67	Rear	15mm	\	\	19.66	20.70	0.300	0.38	0.153	0.19	-0.09
4	DSI 2	Head	NR n41	518598	2593.0	135@67	Left Cheek	0mm	\	\	17.01	17.90	0.250	0.31	0.128	0.16	0.08
4	DSI 2	Head	NR n41	518598	2593.0	135@67	Left Tilt	0mm	\	\	17.01	17.90	0.265	0.33	0.136	0.17	0.07
4	DSI 2	Head	NR n41	518598	2593.0	135@67	Right Cheek	0mm	\	\	17.01	17.90	0.780	0.96	0.338	0.41	0.10
4	DSI 2	Head	NR n41	518598	2593.0	135@67	Right Tilt	0mm	\	\	17.01	17.90	0.651	0.80	0.288	0.35	-0.01
4	DSI 2	Head	NR n41	528000	2640.0	135@67	Right Cheek	0mm	\	37	16.75	17.90	0.914	1.19	0.404	0.53	0.13
4	DSI 2	Head	NR n41	509202	2546.0	135@67	Right Cheek	0mm	\	\	16.97	17.90	0.536	0.66	0.260	0.32	0.07
4	DSI 2	Head	NR n41	528000	2640.0	135@67	Right Tilt	0mm	\	\	16.75	17.90	0.763	0.99	0.344	0.45	0.08
4	DSI 2	Head	NR n41	509202	2546.0	135@67	Right Tilt	0mm	\	\	16.97	17.90	0.447	0.55	0.222	0.28	-0.11
4	DSI 4	Head	NR n41	518598	2593.0	135@67	Left Cheek	0mm	\	\	14.00	14.90	0.144	0.18	0.073	0.09	-0.08
4	DSI 4	Head	NR n41	518598	2593.0	135@67	Left Tilt	0mm	\	\	14.00	14.90	0.153	0.19	0.078	0.10	-0.10
4	DSI 4	Head	NR n41	518598	2593.0	135@67	Right Cheek	0mm	\	\	14.00	14.90	0.451	0.55	0.193	0.24	-0.10
4	DSI 4	Head	NR n41	518598	2593.0	135@67	Right Tilt	0mm	\	\	14.00	14.90	0.376	0.46	0.165	0.20	-0.09
4	DSI 1	Hotspot	NR n41	518598	2593.0	135@67	Front	10mm	\	\	22.35	23.20	0.424	0.52	0.208	0.25	0.11
4	DSI 1	Hotspot	NR n41	518598	2593.0	135@67	Rear	10mm	\	\	22.35	23.20	0.669	0.81	0.344	0.42	0.09
4	DSI 1	Hotspot	NR n41	518598	2593.0	135@67	Left	10mm	\	\	22.35	23.20	0.478	0.58	0.241	0.29	0.13
4	DSI 1	Hotspot	NR n41	518598	2593.0	135@67	Top	10mm	\	\	22.35	23.20	0.479	0.58	0.233	0.28	0.18
4	DSI 1	Hotspot	NR n41	528000	2640.0	135@67	Rear	10mm	\	38	22.01	23.20	0.843	1.11	0.440	0.58	0.07
4	DSI 1	Hotspot	NR n41	509202	2546.0	135@67	Rear	10mm	\	\	22.24	23.20	0.480	0.60	0.241	0.30	-0.06
4	DSI 3	Hotspot	NR n41	518598	2593.0	135@67	Front	10mm	\	\	21.39	22.20	0.336	0.40	0.159	0.19	0.05
4	DSI 3	Hotspot	NR n41	518598	2593.0	135@67	Rear	10mm	\	\	21.39	22.20	0.531	0.64	0.263	0.32	0.02
4	DSI 3	Hotspot	NR n41	518598	2593.0	135@67	Left	10mm	\	\	21.39	22.20	0.379	0.46	0.185	0.22	0.10
4	DSI 3	Hotspot	NR n41	518598	2593.0	135@67	Top	10mm	\	\	21.39	22.20	0.380	0.46	0.178	0.21	-0.19
4	DSI 1	Body-Worn	NR n41	518598	2593.0	135@67	Front	15mm	\	\	22.35	23.20	0.212	0.26	0.112	0.14	-0.08
4	DSI 1	Body-Worn	NR n41	518598	2593.0	135@67	Rear	15mm	\	\	22.35	23.20	0.309	0.38	0.167	0.20	0.07
4	DSI 3	Body-Worn	NR n41	518598	2593.0	135@67	Front	15mm	\	\	21.39	22.20	0.168	0.20	0.086	0.10	0.13
4	DSI 3	Body-Worn	NR n41	518598	2593.0	135@67	Rear	15mm	\	\	21.39	22.20	0.245	0.30	0.128	0.15	-0.19
5	DSI 2	Head	NR n41	518598	2593.0	135@67	Left Cheek	0mm	\	\	20.81	22.00	0.224	0.29	0.104	0.14	0.01
5	DSI 2	Head	NR n41	518598	2593.0	135@67	Left Tilt	0mm	\	\	20.81	22.00	0.061	0.08	0.030	0.04	0.02
5	DSI 2	Head	NR n41	518598	2593.0	135@67	Right Cheek	0mm	\	\	20.81	22.00	0.621	0.82	0.295	0.39	0.09
5	DSI 2	Head	NR n41	518598	2593.0	135@67	Right Tilt	0mm	\	\	20.81	22.00	0.068	0.09	0.034	0.04	0.14
5	DSI 2	Head	NR n41	528000	2640.0	135@67	Right Cheek	0mm	\	\	20.50	22.00	0.682	0.96	0.325	0.46	-0.05
5	DSI 2	Head	NR n41	509202	2546.0	135@67	Right Cheek	0mm	\	\	20.79	22.00	0.561	0.74	0.258	0.34	0.14
5	DSI 4	Head	NR n41	518598	2593.0	135@67	Left Cheek	0mm	\	\	19.33	20.50	0.130	0.17	0.061	0.08	0.05
5	DSI 4	Head	NR n41	518598	2593.0	135@67	Left Tilt	0mm	\	\	19.33	20.50	0.036	0.05	0.018	0.02	0.00
5	DSI 4	Head	NR n41	518598	2593.0	135@67	Right Cheek	0mm	\	\	19.33	20.50	0.361	0.47	0.172	0.23	-0.12
5	DSI 4	Head	NR n41	518598	2593.0	135@67	Right Tilt	0mm	\	\	19.33	20.50	0.040	0.05	0.020	0.03	0.14
5	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Front	10mm	\	\	20.16	21.30	0.179	0.23	0.094	0.12	0.02
5	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Rear	10mm	\	\	20.16	21.30	0.343	0.45	0.173	0.22	0.14
5	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Right	10mm	\	\	20.16	21.30	0.667	0.87	0.309	0.40	-0.08
5	DSI 1/3	Hotspot	NR n41	518598	2593.0	135@67	Top	10mm	\	\	20.16	21.30	<0.01	<0.01	<0.01	<0.01	\
5	DSI 1/3	Hotspot	NR n41	528000	2640.0	135@67	Right	10mm	\	\	19.83	21.30	0.759	1.06	0.355	0.50	0.15
5	DSI 1/3	Hotspot	NR n41	509202	2546.0	135@67	Right	10mm	\	\	20.11	21.30	0.654	0.86	0.287	0.38	0.14
5	DSI 1/3	Body-Worn	NR n41	518598	2593.0	135@67	Front	15mm									



Table 12.20: Bluetooth SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle %	Duty Cycle Scaling Factor	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
8	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Left Cheek	0mm	\	\	13.27	15.00	76.62	1.31	0.178	0.35	0.081	0.16	-0.18
8	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Left Tilt	0mm	\	\	13.27	15.00	76.62	1.31	0.051	0.10	0.025	0.05	-0.01
8	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Right Cheek	0mm	\	\	13.27	15.00	76.62	1.31	0.034	0.07	0.021	0.04	-0.04
8	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Right Tilt	0mm	\	\	13.27	15.00	76.62	1.31	0.026	0.05	0.014	0.03	-0.01
8	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Front	10mm	\	\	13.27	15.00	76.62	1.31	0.035	0.07	0.019	0.04	0.16
8	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Rear	10mm	\	\	13.27	15.00	76.62	1.31	0.042	0.08	0.022	0.04	-0.10
8	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Right	10mm	\	\	13.27	15.00	76.62	1.31	0.098	0.19	0.045	0.09	0.13
8	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Top	10mm	\	\	13.27	15.00	76.62	1.31	0.007	0.01	0.003	0.01	0.14
8	D1/D2/D3/D4/D5	Body-Worn	Bluetooth	78	2480.0	GFSK	Front	15mm	\	\	13.27	15.00	76.62	1.31	0.018	0.03	0.009	0.02	0.15
8	D1/D2/D3/D4/D5	Body-Worn	Bluetooth	78	2480.0	GFSK	Rear	15mm	\	\	13.27	15.00	76.62	1.31	0.023	0.04	0.012	0.02	-0.04
11	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Left Cheek	0mm	\	\	13.68	15.00	76.62	1.31	0.013	0.02	0.005	0.01	0.04
11	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Left Tilt	0mm	\	\	13.68	15.00	76.62	1.31	<0.01	<0.01	<0.01	<0.01	\
11	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Right Cheek	0mm	\	\	13.68	15.00	76.62	1.31	0.035	0.06	0.010	0.02	0.08
11	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Right Tilt	0mm	\	\	13.68	15.00	76.62	1.31	<0.01	<0.01	<0.01	<0.01	\
11	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Front	10mm	\	\	13.68	15.00	76.62	1.31	0.004	0.01	0.001	0.00	0.00
11	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Rear	10mm	\	40	13.68	15.00	76.62	1.31	0.100	0.18	0.053	0.09	0.15
11	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Left	10mm	\	\	13.68	15.00	76.62	1.31	0.021	0.04	0.008	0.01	0.03
11	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Top	10mm	\	\	13.68	15.00	76.62	1.31	<0.01	<0.01	<0.01	<0.01	\
11	D1/D2/D3/D4/D5	Body-Worn	Bluetooth	78	2480.0	GFSK	Front	15mm	\	\	13.68	15.00	76.62	1.31	<0.01	<0.01	<0.01	<0.01	\
11	D1/D2/D3/D4/D5	Body-Worn	Bluetooth	78	2480.0	GFSK	Rear	15mm	\	\	13.68	15.00	76.62	1.31	0.045	0.08	0.017	0.03	0.00
13	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Left Cheek	0mm	\	\	13.34	15.00	76.62	1.31	0.180	0.35	0.083	0.16	-0.18
13	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Left Tilt	0mm	\	\	13.34	15.00	76.62	1.31	0.176	0.34	0.079	0.15	-0.13
13	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Right Cheek	0mm	\	39	13.34	15.00	76.62	1.31	0.266	0.51	0.121	0.23	0.09
13	C1/C2/C3/C4/C5	Head	Bluetooth	78	2480.0	GFSK	Right Tilt	0mm	\	\	13.34	15.00	76.62	1.31	0.236	0.45	0.107	0.21	-0.12
13	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Front	10mm	\	\	13.34	15.00	76.62	1.31	0.055	0.10	0.028	0.05	0.15
13	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Rear	10mm	\	\	13.34	15.00	76.62	1.31	0.064	0.12	0.034	0.06	0.04
13	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Left	10mm	\	\	13.34	15.00	76.62	1.31	0.023	0.04	0.012	0.02	-0.05
13	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Right	10mm	\	\	13.34	15.00	76.62	1.31	0.010	0.02	0.005	0.01	0.15
13	D1/D2/D3/D4/D5	Hotspot	Bluetooth	78	2480.0	GFSK	Top	10mm	\	\	13.34	15.00	76.62	1.31	0.086	0.17	0.042	0.08	0.07
13	D1/D2/D3/D4/D5	Body-Worn	Bluetooth	78	2480.0	GFSK	Front	15mm	\	\	13.34	15.00	76.62	1.31	0.025	0.05	0.013	0.02	-0.13
13	D1/D2/D3/D4/D5	Body-Worn	Bluetooth	78	2480.0	GFSK	Rear	15mm	\	\	13.34	15.00	76.62	1.31	0.034	0.07	0.019	0.04	-0.19



Table 12.21: WLAN 2.4GHz SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle %	Duty Cycle Scaling Factor	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
8	C1/C2/C3	Head	WLAN 2.4GHz	6	2437.0	802.11b	Left Cheek	0mm	\	\	16.65	17.50	98.30	1.02	0.442	0.55	0.197	0.24	0.08
8	C1/C2/C3	Head	WLAN 2.4GHz	6	2437.0	802.11b	Left Tilt	0mm	\	\	16.65	17.50	98.30	1.02	0.169	0.21	0.083	0.10	-0.08
8	C1/C2/C3	Head	WLAN 2.4GHz	6	2437.0	802.11b	Right Cheek	0mm	\	\	16.65	17.50	98.30	1.02	0.098	0.12	0.053	0.07	-0.04
8	C1/C2/C3	Head	WLAN 2.4GHz	6	2437.0	802.11b	Right Tilt	0mm	\	\	16.65	17.50	98.30	1.02	0.075	0.09	0.039	0.05	0.07
8	C4/C5	Head	WLAN 2.4GHz	6	2437.0	802.11b	Left Cheek	0mm	\	\	12.58	13.00	98.30	1.02	0.171	0.19	0.079	0.09	0.08
8	C4/C5	Head	WLAN 2.4GHz	6	2437.0	802.11b	Left Tilt	0mm	\	\	12.58	13.00	98.30	1.02	0.065	0.07	0.033	0.04	0.05
8	C4/C5	Head	WLAN 2.4GHz	6	2437.0	802.11b	Right Cheek	0mm	\	\	12.58	13.00	98.30	1.02	0.037	0.04	0.021	0.02	-0.05
8	C4/C5	Head	WLAN 2.4GHz	6	2437.0	802.11b	Right Tilt	0mm	\	\	12.58	13.00	98.30	1.02	0.029	0.03	0.016	0.02	0.06
8	D1/D2/D3	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Front	10mm	\	\	17.48	18.00	98.30	1.02	0.093	0.11	0.053	0.06	-0.07
8	D1/D2/D3	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Rear	10mm	\	\	17.48	18.00	98.30	1.02	0.146	0.17	0.072	0.08	0.00
8	D1/D2/D3	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Right	10mm	\	42	17.48	18.00	98.30	1.02	0.331	0.38	0.157	0.18	-0.01
8	D1/D2/D3	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Top	10mm	\	\	17.48	18.00	98.30	1.02	<0.01	<0.01	<0.01	<0.01	\
8	D4/D5	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Front	10mm	\	\	15.14	15.50	98.30	1.02	0.049	0.05	0.028	0.03	-0.14
8	D4/D5	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Rear	10mm	\	\	15.14	15.50	98.30	1.02	0.077	0.09	0.038	0.04	0.07
8	D4/D5	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Right	10mm	\	\	15.14	15.50	98.30	1.02	0.175	0.19	0.084	0.09	0.11
8	D4/D5	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Top	10mm	\	\	15.14	15.50	98.30	1.02	<0.01	<0.01	<0.01	<0.01	\
8	D1/D2/D3	Body-Worn	WLAN 2.4GHz	6	2437.0	802.11b	Front	15mm	\	\	17.48	18.00	98.30	1.02	0.048	0.05	0.027	0.03	-0.03
8	D1/D2/D3	Body-Worn	WLAN 2.4GHz	6	2437.0	802.11b	Rear	15mm	\	\	17.48	18.00	98.30	1.02	0.072	0.08	0.040	0.05	0.13
8	D4/D5	Body-Worn	WLAN 2.4GHz	6	2437.0	802.11b	Front	15mm	\	\	15.14	15.50	98.30	1.02	0.025	0.03	0.014	0.02	-0.12
8	D4/D5	Body-Worn	WLAN 2.4GHz	6	2437.0	802.11b	Rear	15mm	\	\	15.14	15.50	98.30	1.02	0.038	0.04	0.021	0.02	-0.11
13	C1/C2/C3	Head	WLAN 2.4GHz	6	2437.0	802.11b	Left Cheek	0mm	\	\	17.14	17.50	98.30	1.02	0.332	0.37	0.173	0.19	-0.13
13	C1/C2/C3	Head	WLAN 2.4GHz	6	2437.0	802.11b	Left Tilt	0mm	\	\	17.14	17.50	98.30	1.02	0.311	0.34	0.165	0.18	-0.16
13	C1/C2/C3	Head	WLAN 2.4GHz	6	2437.0	802.11b	Right Cheek	0mm	\	41	17.14	17.50	98.30	1.02	0.492	0.55	0.229	0.25	0.07
13	C1/C2/C3	Head	WLAN 2.4GHz	6	2437.0	802.11b	Right Tilt	0mm	\	\	17.14	17.50	98.30	1.02	0.483	0.54	0.219	0.24	0.13
13	C4/C5	Head	WLAN 2.4GHz	6	2437.0	802.11b	Left Cheek	0mm	\	\	12.58	13.00	98.30	1.02	0.131	0.15	0.068	0.08	0.09
13	C4/C5	Head	WLAN 2.4GHz	6	2437.0	802.11b	Left Tilt	0mm	\	\	12.58	13.00	98.30	1.02	0.122	0.14	0.064	0.07	0.01
13	C4/C5	Head	WLAN 2.4GHz	6	2437.0	802.11b	Right Cheek	0mm	\	\	12.58	13.00	98.30	1.02	0.193	0.22	0.089	0.10	-0.01
13	C4/C5	Head	WLAN 2.4GHz	6	2437.0	802.11b	Right Tilt	0mm	\	\	12.58	13.00	98.30	1.02	0.190	0.21	0.085	0.10	0.00
13	D1/D2/D3/D4/D5	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Front	10mm	\	\	17.54	18.00	98.30	1.02	0.100	0.11	0.049	0.06	-0.07
13	D1/D2/D3/D4/D5	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Rear	10mm	\	\	17.54	18.00	98.30	1.02	0.117	0.13	0.062	0.07	0.00
13	D1/D2/D3/D4/D5	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Right	10mm	\	\	17.54	18.00	98.30	1.02	<0.01	<0.01	<0.01	<0.01	\
13	D1/D2/D3/D4/D5	Hotspot	WLAN 2.4GHz	6	2437.0	802.11b	Top	10mm	\	\	17.54	18.00	98.30	1.02	0.132	0.15	0.065	0.07	-0.05
13	D1/D2/D3/D4/D5	Body-Worn	WLAN 2.4GHz	6	2437.0	802.11b	Front	15mm	\	\	17.54	18.00	98.30	1.02	0.045	0.05	0.024	0.03	0.15
13	D1/D2/D3/D4/D5	Body-Worn	WLAN 2.4GHz	6	2437.0	802.11b	Rear	15mm	\	\	17.54	18.00	98.30	1.02	0.058	0.07	0.034	0.04	-0.05

Note:

- According to the KDB 248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.
- For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- According to the KDB 248227 D01, the reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.
- SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.



Table 12.22: WLAN 5GHz SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle %	Duty Cycle Scaling Factor	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power DnB
12	C1/C2	Head	U-NII-1	40	5200.0	802.11a	Left Cheek	0mm	\	\	16.09	17.10	96.40	1.04	0.404	0.53	0.146	0.19	0.04
12	C1/C2	Head	U-NII-1	40	5200.0	802.11a	Left Tilt	0mm	\	\	16.09	17.10	96.40	1.04	0.280	0.37	0.097	0.13	0.06
12	C1/C2	Head	U-NII-1	40	5200.0	802.11a	Right Cheek	0mm	\	\	16.09	17.10	96.40	1.04	0.181	0.24	0.067	0.09	-0.04
12	C1/C2	Head	U-NII-1	40	5200.0	802.11a	Right Tilt	0mm	\	\	16.09	17.10	96.40	1.04	0.176	0.23	0.064	0.08	0.13
12	C3/C4	Head	U-NII-1	40	5200.0	802.11a	Left Cheek	0mm	\	\	14.65	15.60	96.40	1.04	0.266	0.34	0.091	0.12	-0.13
12	C3/C4	Head	U-NII-1	40	5200.0	802.11a	Left Tilt	0mm	\	\	14.65	15.60	96.40	1.04	0.184	0.24	0.061	0.08	-0.03
12	C3/C4	Head	U-NII-1	40	5200.0	802.11a	Right Cheek	0mm	\	\	14.65	15.60	96.40	1.04	0.119	0.15	0.042	0.05	0.14
12	C3/C4	Head	U-NII-1	40	5200.0	802.11a	Right Tilt	0mm	\	\	14.65	15.60	96.40	1.04	0.116	0.15	0.040	0.05	-0.17
12	C5	Head	U-NII-1	40	5200.0	802.11a	Left Cheek	0mm	\	\	11.67	12.60	96.40	1.04	0.165	0.21	0.058	0.07	0.10
12	C5	Head	U-NII-1	40	5200.0	802.11a	Left Tilt	0mm	\	\	11.67	12.60	96.40	1.04	0.114	0.15	0.038	0.05	0.12
12	C5	Head	U-NII-1	40	5200.0	802.11a	Right Cheek	0mm	\	\	11.67	12.60	96.40	1.04	0.074	0.10	0.027	0.03	0.00
12	C5	Head	U-NII-1	40	5200.0	802.11a	Right Tilt	0mm	\	\	11.67	12.60	96.40	1.04	0.072	0.09	0.025	0.03	0.18
12	C1/C2	Head	U-NII-2A	52	5260.0	802.11a	Left Cheek	0mm	\	\	14.60	15.60	96.40	1.04	0.554	0.72	0.200	0.26	-0.07
12	C1/C2	Head	U-NII-2A	52	5260.0	802.11a	Left Tilt	0mm	\	\	14.60	15.60	96.40	1.04	0.511	0.67	0.175	0.23	-0.18
12	C1/C2	Head	U-NII-2A	52	5260.0	802.11a	Right Cheek	0mm	\	\	14.60	15.60	96.40	1.04	0.411	0.54	0.151	0.20	-0.17
12	C1/C2	Head	U-NII-2A	52	5260.0	802.11a	Right Tilt	0mm	\	\	14.60	15.60	96.40	1.04	0.346	0.45	0.125	0.16	-0.05
12	C3/C4/C5	Head	U-NII-2A	52	5260.0	802.11a	Left Cheek	0mm	\	\	10.14	11.10	96.40	1.04	0.190	0.25	0.065	0.08	-0.10
12	C3/C4/C5	Head	U-NII-2A	52	5260.0	802.11a	Left Tilt	0mm	\	\	10.14	11.10	96.40	1.04	0.175	0.23	0.056	0.07	-0.13
12	C3/C4/C5	Head	U-NII-2A	52	5260.0	802.11a	Right Cheek	0mm	\	\	10.14	11.10	96.40	1.04	0.141	0.18	0.049	0.06	0.00
12	C3/C4/C5	Head	U-NII-2A	52	5260.0	802.11a	Right Tilt	0mm	\	\	10.14	11.10	96.40	1.04	0.119	0.15	0.040	0.05	-0.09
12	C1/C2	Head	U-NII-2C	116	5580.0	802.11a	Left Cheek	0mm	\	43	15.53	16.60	96.40	1.04	0.795	1.06	0.280	0.37	0.11
12	C1/C2	Head	U-NII-2C	116	5580.0	802.11a	Left Tilt	0mm	\	\	15.53	16.60	96.40	1.04	0.649	0.86	0.217	0.29	0.10
12	C1/C2	Head	U-NII-2C	116	5580.0	802.11a	Right Cheek	0mm	\	\	15.53	16.60	96.40	1.04	0.308	0.41	0.112	0.15	0.02
12	C1/C2	Head	U-NII-2C	116	5580.0	802.11a	Right Tilt	0mm	\	\	15.53	16.60	96.40	1.04	0.463	0.62	0.155	0.21	0.04
12	C1/C2	Head	U-NII-2C	124	5620.0	802.11a	Left Cheek	0mm	\	\	15.41	16.60	96.40	1.04	0.549	0.75	0.192	0.26	-0.15
12	C1/C2	Head	U-NII-2C	116	5580.0	802.11a	Left Tilt	0mm	\	\	15.41	16.60	96.40	1.04	0.448	0.61	0.149	0.20	0.10
12	C3/C4/C5	Head	U-NII-2C	116	5580.0	802.11a	Left Cheek	0mm	\	\	11.06	12.10	96.40	1.04	0.220	0.29	0.076	0.10	0.03
12	C3/C4/C5	Head	U-NII-2C	116	5580.0	802.11a	Left Tilt	0mm	\	\	11.06	12.10	96.40	1.04	0.180	0.24	0.059	0.08	-0.09
12	C3/C4/C5	Head	U-NII-2C	116	5580.0	802.11a	Right Cheek	0mm	\	\	11.06	12.10	96.40	1.04	0.085	0.11	0.030	0.04	-0.08
12	C3/C4/C5	Head	U-NII-2C	116	5580.0	802.11a	Right Tilt	0mm	\	\	11.06	12.10	96.40	1.04	0.128	0.17	0.042	0.06	0.09
12	C1/C2	Head	U-NII-3	157	5785.0	802.11a	Left Cheek	0mm	\	\	13.96	15.10	96.40	1.04	0.330	0.45	0.106	0.14	0.07
12	C1/C2	Head	U-NII-3	157	5785.0	802.11a	Left Tilt	0mm	\	\	13.96	15.10	96.40	1.04	0.289	0.39	0.092	0.12	0.06
12	C1/C2	Head	U-NII-3	157	5785.0	802.11a	Right Cheek	0mm	\	\	13.96	15.10	96.40	1.04	0.132	0.18	0.045	0.06	0.05
12	C1/C2	Head	U-NII-3	157	5785.0	802.11a	Right Tilt	0mm	\	\	13.96	15.10	96.40	1.04	0.202	0.27	0.066	0.09	0.11
12	C3/C4/C5	Head	U-NII-3	157	5785.0	802.11a	Left Cheek	0mm	\	\	12.45	13.60	96.40	1.04	0.229	0.31	0.074	0.10	-0.04
12	C3/C4/C5	Head	U-NII-3	157	5785.0	802.11a	Left Tilt	0mm	\	\	12.45	13.60	96.40	1.04	0.201	0.27	0.064	0.09	0.17
12	C3/C4/C5	Head	U-NII-3	157	5785.0	802.11a	Right Cheek	0mm	\	\	12.45	13.60	96.40	1.04	0.092	0.12	0.031	0.04	0.07
12	C3/C4/C5	Head	U-NII-3	157	5785.0	802.11a	Right Tilt	0mm	\	\	12.45	13.60	96.40	1.04	0.140	0.19	0.046	0.06	0.02
12	D1/D2/D3	Hotspot	U-NII-1	40	5200.0	802.11a	Front	10mm	\	\	18.98	20.10	96.40	1.04	0.272	0.37	0.104	0.14	0.16
12	D1/D2/D3	Hotspot	U-NII-1	40	5200.0	802.11a	Rear	10mm	\	\	18.98	20.10	96.40	1.04	0.314	0.42	0.115	0.15	-0.11
12	D1/D2/D3	Hotspot	U-NII-1	40	5200.0	802.11a	Right	10mm	\	\	18.98	20.10	96.40	1.04	0.084	0.11	0.034	0.05	-0.11
12	D1/D2/D3	Hotspot	U-NII-1	40	5200.0	802.11a	Top	10mm	\	\	18.98	20.10	96.40	1.04	0.221	0.30	0.085	0.11	0.03
12	D4/D5	Hotspot	U-NII-1	40	5200.0	802.11a	Front	10mm	\	\	14.65	15.60	96.40	1.04	0.081	0.11	0.030	0.04	-0.09
12	D4/D5	Hotspot	U-NII-1	40	5200.0	802.11a	Rear	10mm	\	\	14.65	15.60	96.40	1.04	0.094	0.12	0.033	0.04	0.13
12	D4/D5	Hotspot	U-NII-1	40	5200.0	802.11a	Right	10mm	\	\	14.65	15.60	96.40	1.04	0.025	0.03	0.010	0.01	-0.17
12	D4/D5	Hotspot	U-NII-1	40	5200.0	802.11a	Top	10mm	\	\	14.65	15.60	96.40	1.04	0.066	0.09	0.025	0.03	-0.02
12	D1/D2/D3	Hotspot	U-NII-3	157	5785.0	802.11a	Front	10mm	\	\	18.26	19.60	96.40	1.04	0.357	0.51	0.141	0.20	-0.13
12	D1/D2/D3	Hotspot	U-NII-3	157	5785.0	802.11a	Rear	10mm	\	\	18.26	19.60	96.40	1.04	0.403	0.57	0.120	0.17	0.07
12	D1/D2/D3	Hotspot	U-NII-3	157	5785.0	802.11a	Right	10mm	\	\	18.26	19.60	96.40	1.04	0.190	0.27	0.068	0.10	0.03
12	D1/D2/D3	Hotspot	U-NII-3	157	5785.0	802.11a	Top	10mm	\	\	18.26	19.60	96.40	1.04	0.071	0.10	0.017	0.02	0.10
12	D4/D5	Hotspot	U-NII-3	157	5785.0	802.11a	Front	10mm	\	\	13.96	15.10	96.40	1.04	0.113	0.15	0.045	0.06	0.10
12	D4/D5	Hotspot	U-NII-3	157	5785.0	802.11a	Rear	10mm	\	\	13.96	15.10	96.40	1.04	0.128	0.17	0.038	0.05	0.03
12	D4/D5	Hotspot	U-NII-3	157	5785.0	802.11a	Right	10mm	\	\	13.96	15.10	96.40	1.04	0.060	0.08	0.022	0.03	-0.05
12	D4/D5	Hotspot	U-NII-3	157	5785.0	802.11a	Top	10mm	\	\	13.96	15.10	96.40	1.04	0.023	0.03	0.005	0.01	0.09
12	D1/D2/D3	Body-worn	U-NII-1	40	5200.0	802.11a	Front	15mm	\	\	18.98	20.10	96.40	1.04	0.144	0.19	0.060	0.08	0.08
12	D1/D2/D3	Body-worn	U-NII-1	40	5200.0	802.11a	Rear	15mm	\	\	18.98	20.10	96.40	1.04	0.196	0.26	0.072	0.10	-0.05
12	D4/D5	Body-worn	U-NII-1	40	5200.0	802.11a	Front	15mm	\	\	14.65	15.60	96.40	1.04	0.043	0.06	0.017	0.02	-0.01
12	D4/D5	Body-worn	U-NII-1	40	5200.0	802.11a	Rear	15mm	\	\	14.65	15.60	96.40	1.04	0.059	0.08	0.021	0.03	-0.16
12	D1/D2/D3/D4/D5	Body-worn	U-NII-2A	52	5260.0	802.11a	Front	15mm	\	\	18.05	19.10	96.40	1.04	0.117	0.15	0.048	0.06	0.04
12	D1/D2/D3/D4/D5	Body-worn	U-NII-2A	52	5260.0	802.11a	Rear	15mm	\	\	18.05	19.10	96.40	1.04	0.204	0.27	0.072	0.10	-0.05
12	D1/D2/D3/D4/D5	Body-worn	U-NII-2C	116	5580.0	802.11a	Front	15mm	\	\	16.98	18.10	96.40	1.04	0.279	0.38	0.113	0.15	0.09
12	D1/D2/D3/D4/D5	Body-worn	U-NII-2C	116	5580.0	802.11a	Rear	15mm	\	\	16.98	18.10	96.40	1.04	0.268	0.36	0.091	0.12	0.02
12	D1/D2/D3	Body-worn	U-NII-3	157	5785.0	802.11a	Front	15mm	\	\	18.26	19.60	96.40	1.04	0.212	0.30	0.082	0.12	0.00
12	D1/D2/D3	Body-worn	U-NII-3	157	5785.0	802.11a	Rear	15mm	\	\	18.26	19.60	96.40	1.04	0.249	0.38	0.085	0.12	-0.09
12	D4/D5	Body-worn	U-NII-3	157	5785.0	802.11a	Front	15mm	\	\	13.9								



ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Mode/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Duty Cycle %	Duty Cycle Scaling Factor	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
14	C1/C2/C3/C4	Head	U-NII-1	44	5220.0	802.11a	Left Cheek	0mm	\	\	16.07	17.10	96.40	1.04	0.211	0.28	0.065	0.09	0.02
14	C1/C2/C3/C4	Head	U-NII-1	44	5220.0	802.11a	Left Tilt	0mm	\	\	16.07	17.10	96.40	1.04	0.096	0.13	0.029	0.04	0.08
14	C1/C2/C3/C4	Head	U-NII-1	44	5220.0	802.11a	Right Cheek	0mm	\	\	16.07	17.10	96.40	1.04	0.096	0.13	0.035	0.05	-0.09
14	C1/C2/C3/C4	Head	U-NII-1	44	5220.0	802.11a	Right Tilt	0mm	\	\	16.07	17.10	96.40	1.04	0.061	0.08	0.019	0.03	0.12
14	C5	Head	U-NII-1	44	5220.0	802.11a	Left Cheek	0mm	\	\	11.39	12.60	96.40	1.04	0.071	0.10	0.021	0.03	-0.09
14	C5	Head	U-NII-1	44	5220.0	802.11a	Left Tilt	0mm	\	\	11.39	12.60	96.40	1.04	0.032	0.04	0.009	0.01	0.01
14	C5	Head	U-NII-1	44	5220.0	802.11a	Right Cheek	0mm	\	\	11.39	12.60	96.40	1.04	0.032	0.04	0.011	0.01	0.04
14	C5	Head	U-NII-1	44	5220.0	802.11a	Right Tilt	0mm	\	\	11.39	12.60	96.40	1.04	0.020	0.03	0.006	0.01	0.12
14	C1/C2/C3/C4/C5	Head	U-NII-2A	52	5260.0	802.11a	Left Cheek	0mm	\	\	14.58	15.60	96.40	1.04	0.155	0.20	0.051	0.07	0.14
14	C1/C2/C3/C4/C5	Head	U-NII-2A	52	5260.0	802.11a	Left Tilt	0mm	\	\	14.58	15.60	96.40	1.04	0.076	0.10	0.025	0.03	0.01
14	C1/C2/C3/C4/C5	Head	U-NII-2A	52	5260.0	802.11a	Right Cheek	0mm	\	\	14.58	15.60	96.40	1.04	0.074	0.10	0.026	0.03	0.06
14	C1/C2/C3/C4/C5	Head	U-NII-2A	52	5260.0	802.11a	Right Tilt	0mm	\	\	14.58	15.60	96.40	1.04	0.045	0.06	0.012	0.02	0.11
14	C1/C2/C3/C4/C5	Head	U-NII-2C	132	5660.0	802.11a	Left Cheek	0mm	\	\	15.37	16.60	96.40	1.04	0.111	0.15	0.037	0.05	0.07
14	C1/C2/C3/C4/C5	Head	U-NII-2C	132	5660.0	802.11a	Left Tilt	0mm	\	\	15.37	16.60	96.40	1.04	0.071	0.10	0.020	0.03	0.18
14	C1/C2/C3/C4/C5	Head	U-NII-2C	132	5660.0	802.11a	Right Cheek	0mm	\	\	15.37	16.60	96.40	1.04	0.090	0.12	0.025	0.03	-0.02
14	C1/C2/C3/C4/C5	Head	U-NII-2C	132	5660.0	802.11a	Right Tilt	0mm	\	\	15.37	16.60	96.40	1.04	0.062	0.09	0.009	0.01	-0.06
14	C1/C2/C3/C4/C5	Head	U-NII-3	157	5785.0	802.11a	Left Cheek	0mm	\	\	13.79	15.10	96.40	1.04	0.085	0.12	0.025	0.04	0.04
14	C1/C2/C3/C4/C5	Head	U-NII-3	157	5785.0	802.11a	Left Tilt	0mm	\	\	13.79	15.10	96.40	1.04	0.048	0.07	0.011	0.02	0.05
14	C1/C2/C3/C4/C5	Head	U-NII-3	157	5785.0	802.11a	Right Cheek	0mm	\	\	13.79	15.10	96.40	1.04	0.072	0.10	0.017	0.02	-0.05
14	C1/C2/C3/C4/C5	Head	U-NII-3	157	5785.0	802.11a	Right Tilt	0mm	\	\	13.79	15.10	96.40	1.04	0.055	0.08	0.009	0.01	0.10
14	D1/D2/D3	Hotspot	U-NII-1	44	5220.0	802.11a	Front	10mm	\	\	18.91	20.10	96.40	1.04	0.127	0.17	0.052	0.07	0.14
14	D1/D2/D3	Hotspot	U-NII-1	44	5220.0	802.11a	Rear	10mm	\	\	18.91	20.10	96.40	1.04	0.418	0.57	0.150	0.21	-0.18
14	D1/D2/D3	Hotspot	U-NII-1	44	5220.0	802.11a	Right	10mm	\	44	18.91	20.10	96.40	1.04	0.419	0.57	0.153	0.21	0.14
14	D1/D2/D3	Hotspot	U-NII-1	44	5220.0	802.11a	Top	10mm	\	\	18.91	20.10	96.40	1.04	0.090	0.12	0.034	0.05	-0.15
14	D4/D5	Hotspot	U-NII-1	44	5220.0	802.11a	Front	10mm	\	\	14.51	15.60	96.40	1.04	0.045	0.06	0.019	0.03	-0.19
14	D4/D5	Hotspot	U-NII-1	44	5220.0	802.11a	Rear	10mm	\	\	14.51	15.60	96.40	1.04	0.140	0.20	0.055	0.07	0.10
14	D4/D5	Hotspot	U-NII-1	44	5220.0	802.11a	Right	10mm	\	\	14.51	15.60	96.40	1.04	0.149	0.20	0.056	0.06	-0.18
14	D4/D5	Hotspot	U-NII-1	44	5220.0	802.11a	Top	10mm	\	\	14.51	15.60	96.40	1.04	0.032	0.04	0.013	0.02	-0.15
14	D1/D2/D3	Hotspot	U-NII-3	157	5785.0	802.11a	Front	10mm	\	\	18.21	19.60	96.40	1.04	0.144	0.21	0.054	0.08	-0.11
14	D1/D2/D3	Hotspot	U-NII-3	157	5785.0	802.11a	Rear	10mm	\	\	18.21	19.60	96.40	1.04	0.290	0.42	0.101	0.14	-0.17
14	D1/D2/D3	Hotspot	U-NII-3	157	5785.0	802.11a	Right	10mm	\	\	18.21	19.60	96.40	1.04	0.368	0.53	0.118	0.17	0.16
14	D1/D2/D3	Hotspot	U-NII-3	157	5785.0	802.11a	Top	10mm	\	\	18.21	19.60	96.40	1.04	0.077	0.11	0.016	0.02	-0.18
14	D4/D5	Hotspot	U-NII-3	157	5785.0	802.11a	Front	10mm	\	\	13.79	15.10	96.40	1.04	0.055	0.08	0.019	0.03	0.00
14	D4/D5	Hotspot	U-NII-3	157	5785.0	802.11a	Rear	10mm	\	\	13.79	15.10	96.40	1.04	0.110	0.15	0.036	0.05	0.06
14	D4/D5	Hotspot	U-NII-3	157	5785.0	802.11a	Right	10mm	\	\	13.79	15.10	96.40	1.04	0.140	0.20	0.042	0.06	-0.01
14	D4/D5	Hotspot	U-NII-3	157	5785.0	802.11a	Top	10mm	\	\	13.79	15.10	96.40	1.04	0.029	0.04	0.006	0.01	0.09
14	D1/D2/D3	Body-worn	U-NII-1	44	5220.0	802.11a	Front	15mm	\	\	18.91	20.10	96.40	1.04	0.096	0.13	0.041	0.06	0.03
14	D1/D2/D3	Body-worn	U-NII-1	44	5220.0	802.11a	Rear	15mm	\	\	18.91	20.10	96.40	1.04	0.360	0.49	0.143	0.20	-0.08
14	D4/D5	Body-worn	U-NII-1	44	5220.0	802.11a	Front	15mm	\	\	14.51	15.60	96.40	1.04	0.034	0.05	0.015	0.02	-0.10
14	D4/D5	Body-worn	U-NII-1	44	5220.0	802.11a	Rear	15mm	\	\	14.51	15.60	96.40	1.04	0.128	0.17	0.053	0.07	0.18
14	D1/D2/D3/D4/D5	Body-worn	U-NII-2A	52	5260.0	802.11a	Front	15mm	\	\	17.93	19.10	96.40	1.04	0.081	0.11	0.025	0.03	0.05
14	D1/D2/D3/D4/D5	Body-worn	U-NII-2A	52	5260.0	802.11a	Rear	15mm	\	\	17.93	19.10	96.40	1.04	0.308	0.42	0.126	0.17	0.17
14	D1/D2/D3/D4/D5	Body-worn	U-NII-2C	132	5660.0	802.11a	Front	15mm	\	\	16.72	18.10	96.40	1.04	0.029	0.04	0.010	0.01	0.00
14	D1/D2/D3/D4/D5	Body-worn	U-NII-2C	132	5660.0	802.11a	Rear	15mm	\	\	16.72	18.10	96.40	1.04	0.150	0.21	0.064	0.09	-0.05
14	D1/D2/D3	Body-worn	U-NII-3	157	5785.0	802.11a	Front	15mm	\	\	18.21	19.60	96.40	1.04	0.122	0.17	0.048	0.07	0.06
14	D1/D2/D3	Body-worn	U-NII-3	157	5785.0	802.11a	Rear	15mm	\	\	18.21	19.60	96.40	1.04	0.212	0.30	0.080	0.11	-0.16
14	D4/D5	Body-worn	U-NII-3	157	5785.0	802.11a	Front	15mm	\	\	13.79	15.10	96.40	1.04	0.046	0.07	0.017	0.02	-0.01
14	D4/D5	Body-worn	U-NII-3	157	5785.0	802.11a	Rear	15mm	\	\	13.79	15.10	96.40	1.04	0.081	0.11	0.028	0.04	-0.03
14	D1/D2/D3/D4/D5	Extremity	U-NII-2A	52	5260.0	802.11a	Front	0mm	\	\	17.93	19.10	96.40	1.04	0.578	0.79	0.198	0.27	0.18
14	D1/D2/D3/D4/D5	Extremity	U-NII-2A	52	5260.0	802.11a	Rear	0mm	\	\	17.93	19.10	96.40	1.04	0.817	1.11	0.291	0.40	0.00
14	D1/D2/D3/D4/D5	Extremity	U-NII-2A	52	5260.0	802.11a	Right	0mm	\	45	17.93	19.10	96.40	1.04	3.780	5.15	0.881	1.20	0.16
14	D1/D2/D3/D4/D5	Extremity	U-NII-2A	52	5260.0	802.11a	Top	0mm	\	\	17.93	19.10	96.40	1.04	0.460	0.63	0.152	0.21	0.09
14	D1/D2/D3/D4/D5	Extremity	U-NII-2C	132	5660.0	802.11a	Front	0mm	\	\	16.72	18.10	96.40	1.04	0.329	0.47	0.101	0.14	0.01
14	D1/D2/D3/D4/D5	Extremity	U-NII-2C	132	5660.0	802.11a	Rear	0mm	\	\	16.72	18.10	96.40	1.04	0.594	0.85	0.182	0.26	-0.04
14	D1/D2/D3/D4/D5	Extremity	U-NII-2C	132	5660.0	802.11a	Right	0mm	\	\	16.72	18.10	96.40	1.04	1.420	2.03	0.346	0.49	-0.08
14	D1/D2/D3/D4/D5	Extremity	U-NII-2C	132	5660.0	802.11a	Top	0mm	\	\	16.72	18.10	96.40	1.04	0.146	0.21	0.045	0.06	-0.19

Note:

1. For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

2. According to the KDB 248227 D01, the reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.



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Table 12.23: NFC SAR Values

ANT	Power Level	RF Exposure Conditions	Frequency Band	Channel Number	Frequency (MHz)	Model/RB	Test Position	Distance	Note	Figure No.	EUT Measured Power (dBm)	Tune up (dBm)	Measured SAR 1g (W/kg)	Calculated SAR 1g (W/kg)	Measured SAR 10g (W/kg)	Calculated SAR 10g (W/kg)	Power Drift
2	\	Extremity	NFC	\	13.56	\	Front	0mm	\	\	\	\	<0.01	\	<0.01	\	\
2	\	Extremity	NFC	\	13.56	\	Rear	0mm	\	\	\	\	<0.01	\	<0.01	\	\
2	\	Extremity	NFC	\	13.56	\	Left	0mm	\	\	\	\	<0.01	\	<0.01	\	\
2	\	Extremity	NFC	\	13.56	\	Right	0mm	\	\	\	\	<0.01	\	<0.01	\	\
2	\	Extremity	NFC	\	13.56	\	Top	0mm	\	\	\	\	<0.01	\	<0.01	\	\
2	\	Extremity	NFC	\	13.56	\	Bottom	0mm	\	\	\	\	<0.01	\	<0.01	\	\



14. SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

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

Table 14.1: SAR Measurement Variability

Antenna	Power Level	RF Exposure Conditions	Frequency Band	Frequency		Mode/RB	Test Position	Distance	Original SAR (W/kg)	1 st Repeated SAR (W/kg)	Ratio	2 nd Repeated SAR (W/kg)
				Ch.	MHz							
0	DSI 1/3	Hotspot	WCDMA Band 2	9538	1907.6	RMC	Bottom	10mm	0.868	0.845	1.03	/
4	DSI 2	Head	WCDMA Band 2	9262	1852.4	RMC	Right Cheek	0mm	0.912	0.832	1.10	/
0	DSI 1/3	Hotspot	WCDMA Band 4	1513	1752.6	RMC	Bottom	10mm	0.882	0.851	1.04	/
1	DSI 1/3	Hotspot	WCDMA Band 5	4132	826.4	RMC	Left	10mm	0.818	0.803	1.02	/
4	DSI 2	Head	LTE Band 2	18700	1860.0	50RB0	Right Cheek	0mm	1.060	1.030	1.03	/
1	DSI 2	Head	LTE Band 7	21350	2560.0	50RB50	Right Cheek	0mm	0.816	0.802	1.02	/
4	DSI 2	Head	LTE Band 7	21350	2560.0	1RB99	Right Cheek	0mm	0.959	0.924	1.04	/
1	DSI 2	Head	LTE Band 12	23130	711.0	25RB25	Right Cheek	0mm	0.864	0.835	1.03	/
1	DSI 2	Head	LTE Band 13	23230	782.0	50RB0	Right Cheek	0mm	0.876	0.841	1.04	/
0	DSI 1/3	Hotspot	LTE Band 66	132572	1770.0	50RB25	Bottom	10mm	0.872	0.857	1.02	/
1	DSI 1/3	Hotspot	LTE Band 66	132572	1770.0	50RB0	Left	10mm	0.944	0.920	1.03	/
5	DSI 2	Head	LTE Band 66	132322	1745.0	50RB25	Left Cheek	0mm	0.953	0.931	1.02	/
5	DSI 1/3	Hotspot	LTE Band 66	132572	1770.0	1RB50	Right	10mm	0.906	0.877	1.03	/
1	DSI 2	Head	LTE Band 38	38000	2595.0	50RB0	Right Cheek	0mm	0.849	0.834	1.02	/
4	DSI 2	Head	LTE Band 38	38150	2610.0	1RB99	Right Cheek	0mm	1.010	0.985	1.03	/
1	DSI 1/3	Hotspot	LTE Band 41PC2	41490	2680.0	1RB99	Left	10mm	0.815	0.796	1.02	/
1	DSI 2	Head	NR n7	505000	2525.0	135@67	Right Cheek	0mm	1.090	1.060	1.03	/
1	DSI 1/3	Hotspot	NR n7	505000	2525.0	135@67	Left	10mm	0.911	0.878	1.04	/
1	DSI 2	Head	NR n66	352000	1760.0	108@54	Right Cheek	0mm	0.928	0.915	1.01	/
1	DSI 1/3	Hotspot	NR n66	352000	1760.0	108@54	Left	10mm	0.963	0.944	1.02	/
4	DSI 2	Head	NR n66	352000	1760.0	108@54	Right Cheek	0mm	0.990	0.967	1.02	/
5	DSI 2	Head	NR n66	349000	1745.0	108@54	Left Cheek	0mm	0.914	0.880	1.04	/
5	DSI 1/3	Hotspot	NR n66	352000	1760.0	108@54	Right	10mm	0.933	0.909	1.03	/
1	DSI 1/3	Hotspot	NR n38	520000	2600.0	50@25	Left	10mm	0.908	0.884	1.03	/
4	DSI 2	Head	NR n38	520000	2600.0	50@25	Right Cheek	0mm	0.859	0.841	1.02	/
4	DSI 2	Head	NR n41	528000	2640.0	135@67	Right Cheek	0mm	0.914	0.893	1.02	/
4	DSI 1	Hotspot	NR n41	528000	2640.0	135@67	Rear	10mm	0.843	0.816	1.03	/

15. Measurement Uncertainty

15.1. Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	11.0	N	2	1	1	5.5	5.5	∞
2	Axial isotropy	B	4.7	R	√3	√0.5	√0.5	4.3	4.3	∞
3	Hemispherical isotropy	B	9.6	R	√3	1	1	4.8	4.8	∞
4	Boundary effect	B	1.1	R	√3	1	1	0.6	0.6	∞
5	Linearity	B	4.7	R	√3	1	1	2.7	2.7	∞
6	Detection limit	B	1.0	R	√3	1	1	0.6	0.6	∞
7	Modulation response	B	4.0	R	√3	1	1	2.3	2.3	∞
8	Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
9	Response time	B	0.8	R	√3	1	1	0.5	0.5	∞
10	Integration time	B	1.7	R	√3	1	1	1.0	1.0	∞
11	RF ambient conditions-noise	B	3.0	R	√3	1	1	1.7	1.7	∞
12	RF ambient conditions-reflection	B	3.0	R	√3	1	1	1.7	1.7	∞
13	Probe positioned mech. restrictions	B	0.35	R	√3	1	1	0.2	0.2	∞
14	Probe positioning with respect to phantom shell	B	2.9	R	√3	1	1	1.7	1.7	∞
15	Post-processing	B	1.0	R	√3	1	1	0.6	0.6	∞
Test sample related										
16	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	5
17	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
18	Power scaling	B	0	R	√3	1	1	0	0	∞
19	Drift of output power	B	5.0	R	√3	1	1	2.9	2.9	∞
Phantom and set-up										
20	Phantom uncertainty	B	1.0	R	√3	1	1	0.6	0.6	∞
21	Algorithm for correcting SAR for deviations in permittivity and conductivity	B	1.9	N	1	1	0.84	1.9	1.6	∞
22	Liquid conductivity (target)	B	5.0	R	√3	0.64	0.43	1.8	1.2	∞
23	Liquid conductivity (meas.)	A	1.3	N	1	0.64	0.43	0.83	0.56	9
24	Liquid permittivity (target)	B	5.0	R	√3	0.6	0.49	1.7	1.4	∞
25	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	0.96	0.78	9
Combined standard uncertainty, $u_c' = \sqrt{\sum_{i=1}^{25} c_i^2 u_i^2}$								11.2	11.0	95.5
Expanded uncertainty (Confidence interval of 95 %), $u_e = 2u_c$								22.4	22.0	

15.2. Measurement Uncertainty for Normal SAR Tests (3GHz~6GHz)

No.	Error Description	Type	Uncertainty value	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	Degree of freedom
Measurement system										
1	Probe calibration	B	13.1	N	2	1	1	6.55	6.55	∞
2	Axial isotropy	B	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	4.3	4.3	∞
3	Hemispherical isotropy	B	9.6	R	$\sqrt{3}$	1	1	4.8	4.8	∞
4	Boundary effect	B	1.1	R	$\sqrt{3}$	1	1	0.6	0.6	∞
5	Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
6	Detection limit	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
7	modulation response	B	4.0	R	$\sqrt{3}$	1	1	2.3	2.3	∞
8	Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
9	Response time	B	0.0	R	$\sqrt{3}$	1	1	0.0	0.0	∞
10	Integration time	B	1.7	R	$\sqrt{3}$	1	1	1.0	1.0	∞
11	RF ambient conditions-noise	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
12	RF ambient conditions-reflection	B	3.0	R	$\sqrt{3}$	1	1	1.7	1.7	∞
13	Probe positioned mech. Restrictions	B	0.35	R	$\sqrt{3}$	1	1	0.2	0.2	∞
14	Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
15	Post-processing	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Test sample related										
16	Test sample positioning	A	3.3	N	1	1	1	3.3	3.3	5
17	Device holder uncertainty	A	3.4	N	1	1	1	3.4	3.4	5
18	Power scaling	B	0	R	$\sqrt{3}$	1	1	0	0	∞
19	Drift of output power	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Phantom and set-up										
20	Phantom uncertainty	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
21	Algorithm for correcting SAR for deviations in permittivity and conductivity	B	1.9	N	1	1	0.84	1.9	1.6	∞
22	Liquid conductivity (target)	B	5.0	R	$\sqrt{3}$	0.64	0.43	1.8	1.2	∞
23	Liquid conductivity (meas.)	A	1.3	N	1	0.64	0.43	0.83	0.56	9
24	Liquid permittivity (target)	B	5.0	R	$\sqrt{3}$	0.6	0.49	1.7	1.4	∞
25	Liquid permittivity (meas.)	A	1.6	N	1	0.6	0.49	0.96	0.78	9
Combined standard uncertainty, $u_c = \sqrt{\sum_{i=1}^{25} c_i^2 u_i^2}$								11.7	11.6	95.5
Expanded uncertainty (Confidence interval of 95 %), $u_e = 2u_c$								23.4	23.2	

16. Main Test Instruments

Table 16.1: List of Main Instruments

No.	Name	Type	Serial Number	Calibration Date	Valid Period
01	Network analyzer	E5071C	MY46103759	2024-11-12	One year
02	Dielectric probe	85070E	MY44300317	/	/
03	Power meter	E4418B	MY50000366	2024-12-09	One year
04	Power sensor	E9304A	MY50000188	2024-12-09	One year
05	Power meter	NRP	102603	2024-12-17	One year
06	Power sensor	NRP-Z51	102211	2024-12-17	One year
07	Signal Generator	E8257D	MY47461211	2025-01-10	One year
08	Amplifier	VTL5400	0404	/	/
09	DAE	DAE4	1790	2024-06-06	One year
10	E-field Probe	EX3DV4	7683	2024-07-03	One year
11	Dipole Validation Kit	CLA13	1039	2023-08-18	Three years
12	Dipole Validation Kit	D750V3	1163	2022-08-22	Three years
13	Dipole Validation Kit	D835V2	4d057	2024-09-26	Three years
14	Dipole Validation Kit	D1750V2	1152	2022-08-22	Three years
15	Dipole Validation Kit	D1900V2	5d088	2024-09-26	Three years
16	Dipole Validation Kit	D2450V2	873	2024-09-26	Three years
17	Dipole Validation Kit	D2550V2	1010	2024-04-23	Three years
18	Dipole Validation Kit	D5GHzV2	1238	2022-08-17	Three years
19	BTS	E5515C	GB46110722	2025-01-11	One year
20	BTS	MT8820C	6201341853	2025-03-21	One year
21	BTS	CMW500	152499	2024-07-12	One year
22	Thermometer	51II	99250045	2024-11-21	One year
23	Software	DASY5	/	/	/

ANNEX A: Graph Results

GSM 850 Head

Date: 2025-03-05

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 42.112$; $\rho = 1000$ kg/m³

Communication System: UID 0, 2 slot GPRS (0) Frequency: 848.8 MHz Duty Cycle: 1:4

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Cheek High/Area Scan (61x71x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.163 W/kg

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

Reference Value = 3.459 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.176 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.115 W/kg

Maximum value of SAR (measured) = 0.160 W/kg

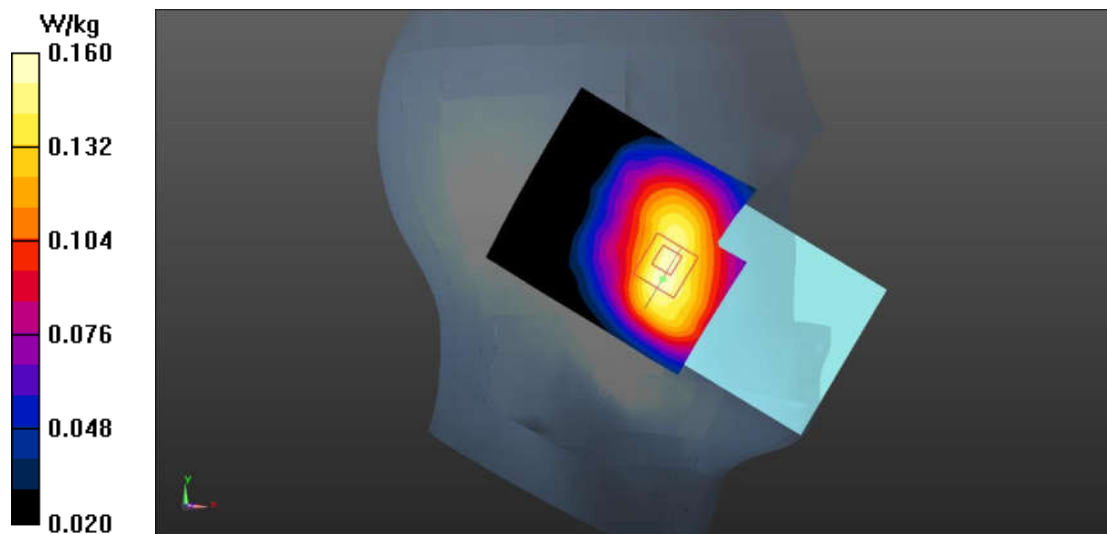


Fig.1 GSM 850 Head

GSM 850 Body

Date: 2025-03-05

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 848.8$ MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 42.112$; $\rho = 1000$ kg/m³

Communication System: UID 0, 2 slot GPRS (0) Frequency: 848.8 MHz Duty Cycle: 1:4

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Rear Side High/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.421 W/kg

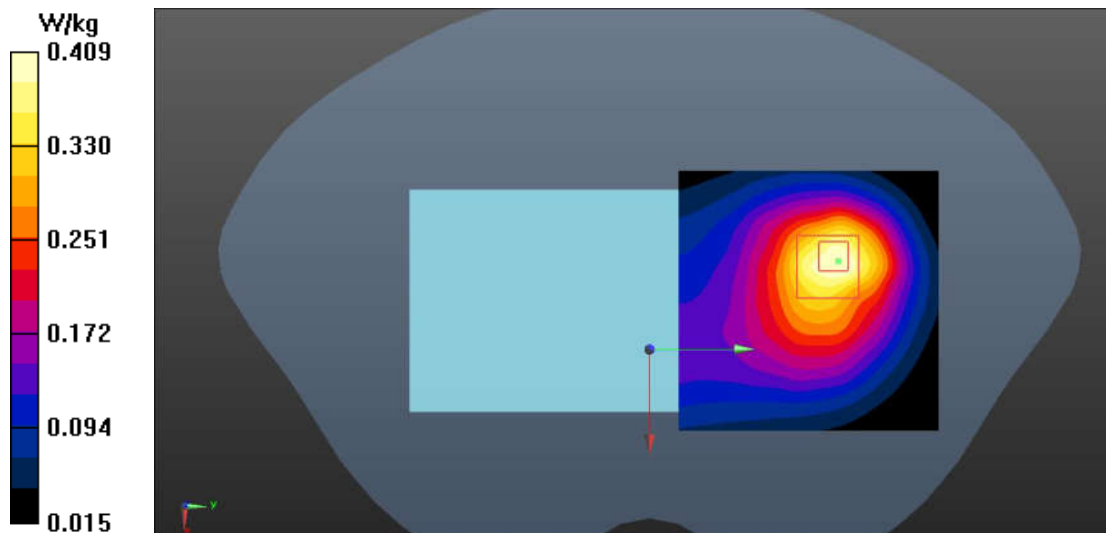
Rear Side High/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.07 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.540 W/kg

SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.195 W/kg

Maximum value of SAR (measured) = 0.409 W/kg

**Fig.2 GSM 850 Body**

GSM 1900 Head

Date: 2025-03-11

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 38.938$; $\rho = 1000$ kg/m³

Communication System: UID 0, 4 slot GPRS (0) Frequency: 1850.2 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Right Cheek Low/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.0639 W/kg

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

Reference Value = 2.228 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0670 W/kg

SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.028 W/kg

Maximum value of SAR (measured) = 0.0549 W/kg

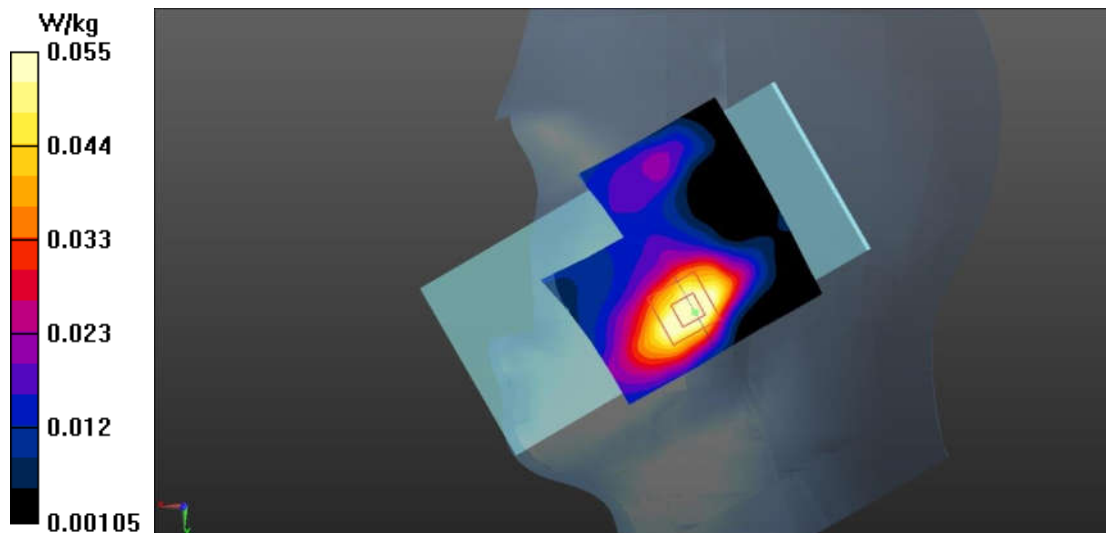


Fig.3 GSM 1900 Head

GSM 1900 Body

Date: 2025-03-11

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1850.2$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 38.938$; $\rho = 1000$ kg/m³

Communication System: UID 0, 4 slot GPRS (0) Frequency: 1850.2 MHz Duty Cycle: 1:2

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Bottom Side Low/Area Scan (41x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.519 W/kg

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

Reference Value = 15.96 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.661 W/kg

SAR(1 g) = 0.391 W/kg; SAR(10 g) = 0.212 W/kg

Maximum value of SAR (measured) = 0.543 W/kg

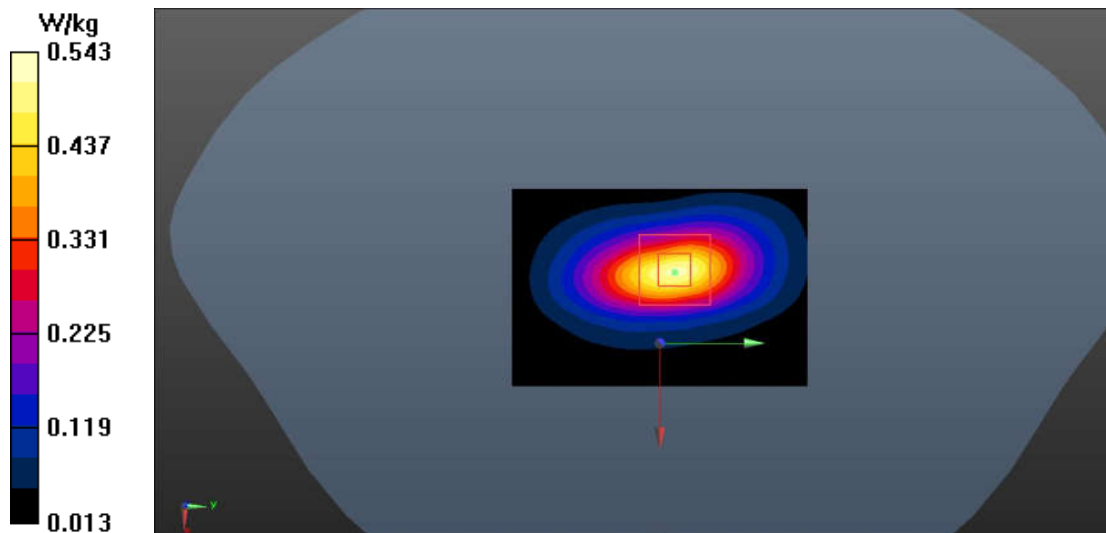


Fig.4 GSM 1900 Body

WCDMA Band 2 Head

Date: 2025-03-11

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used (interpolated): $f = 1852.4$ MHz; $\sigma = 1.386$ S/m; $\epsilon_r = 38.93$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1852.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Right Cheek Low/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.27 W/kg

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

Reference Value = 13.73 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.912 W/kg; SAR(10 g) = 0.482 W/kg

Maximum value of SAR (measured) = 1.21 W/kg

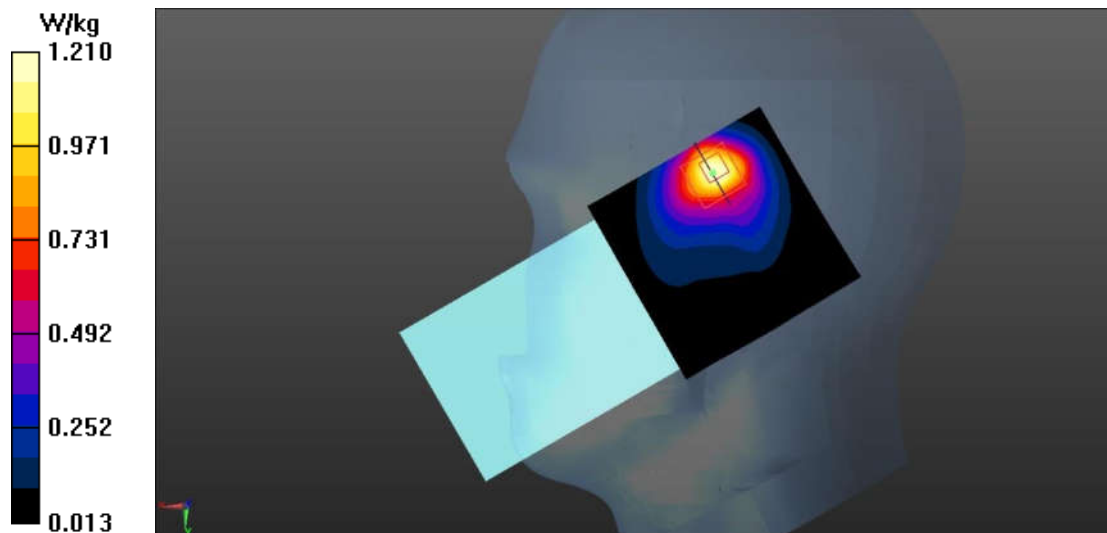


Fig.5 WCDMA Band 2 Head

WCDMA Band 2 Body

Date: 2025-03-11

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1908 \text{ MHz}$; $\sigma = 1.435 \text{ S/m}$; $\epsilon_r = 38.713$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, WCDMA (0) Frequency: 1907.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Bottom Side High/Area Scan (51x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.14 W/kg

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

Reference Value = 9.599 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.868 W/kg; SAR(10 g) = 0.477 W/kg

Maximum value of SAR (measured) = 1.19 W/kg

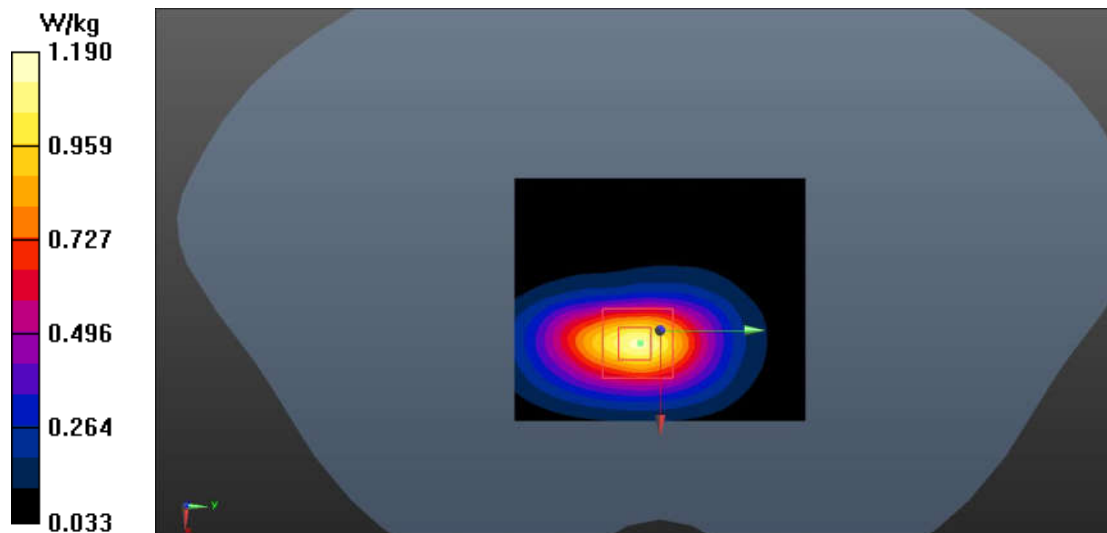


Fig.6 WCDMA Band 2 Body

WCDMA Band 4 Head

Date: 2025-02-25

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used (interpolated): $f = 1712.4$ MHz; $\sigma = 1.322$ S/m; $\epsilon_r = 40.825$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1712.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

Right Cheek Low/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.24 W/kg

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

Reference Value = 13.68 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.673 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 1.19 W/kg

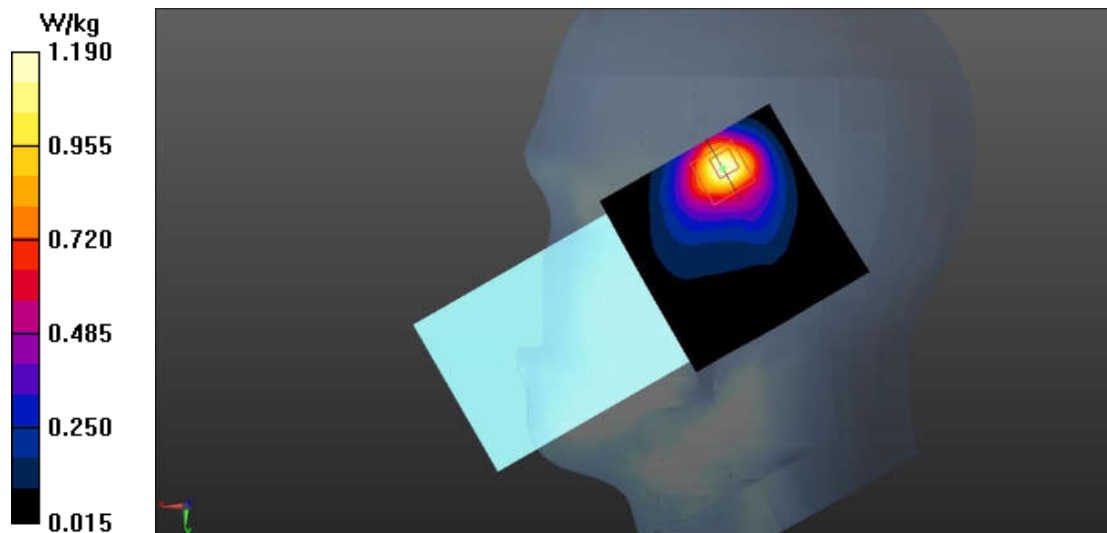


Fig.7 WCDMA Band 4 Head

WCDMA Band 4 Body

Date: 2025-02-25

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used (interpolated): $f = 1752.6$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 40.668$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 1752.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

Bottom Side High/Area Scan (41x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.19 W/kg

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

Reference Value = 22.71 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.486 W/kg

Maximum value of SAR (measured) = 1.21 W/kg

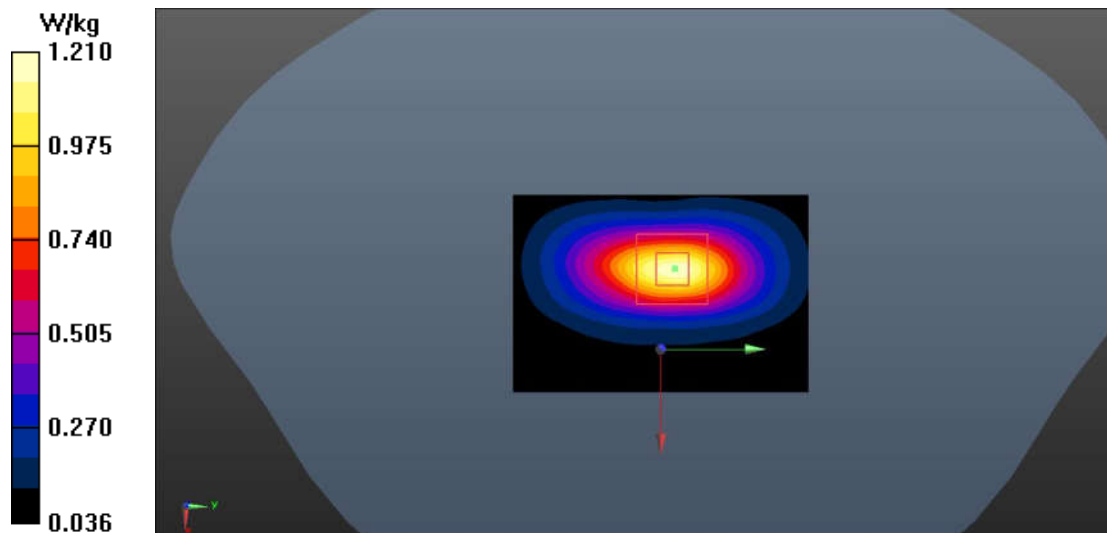


Fig.8 WCDMA Band 4 Body

WCDMA Band 5 Head

Date: 2025-03-05

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.6$ MHz; $\sigma = 0.883$ S/m; $\epsilon_r = 42.259$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 836.6 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek Middle/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.961 W/kg

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

Reference Value = 9.434 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.30 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.352 W/kg

Maximum value of SAR (measured) = 0.992 W/kg

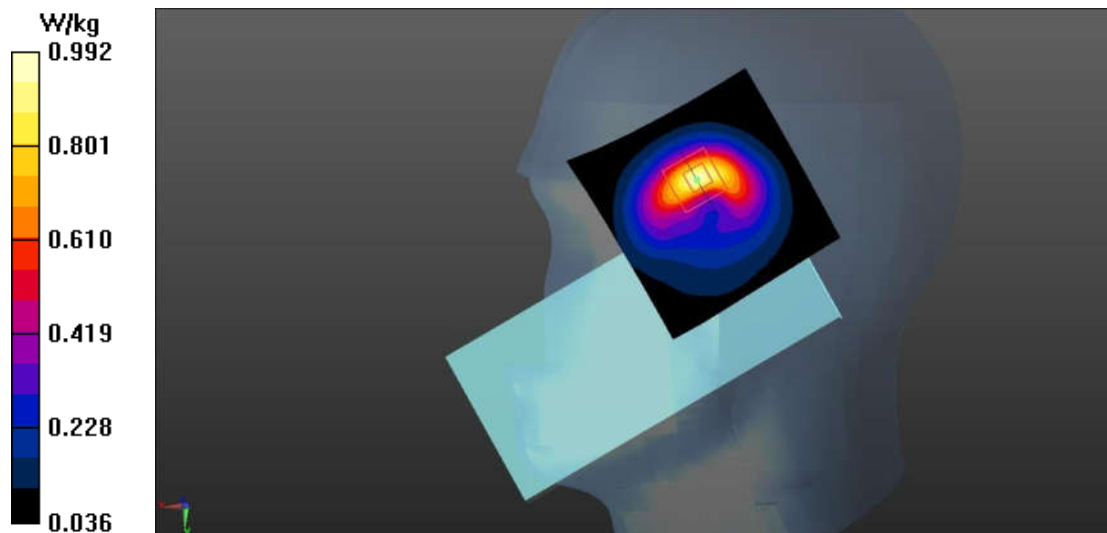


Fig.9 WCDMA Band 5 Head

WCDMA Band 5 Body

Date: 2025-03-05

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 826.4$ MHz; $\sigma = 0.874$ S/m; $\epsilon_r = 42.381$; $\rho = 1000$ kg/m³

Communication System: UID 0, WCDMA (0) Frequency: 826.4 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Side Low/Area Scan (41x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.13 W/kg

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

Reference Value = 19.74 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.818 W/kg; SAR(10 g) = 0.447 W/kg

Maximum value of SAR (measured) = 1.15 W/kg

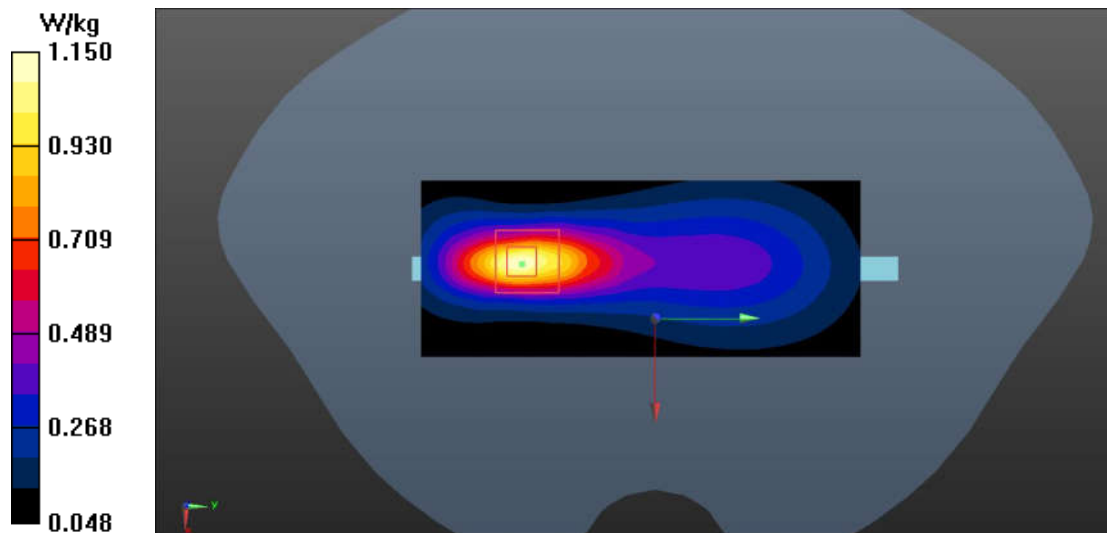


Fig.10 WCDMA Band 5 Body

LTE Band 2 Head

Date: 2025-03-20

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.36$ S/m; $\epsilon_r = 40.789$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Right Cheek Low 50RB0/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.56 W/kg

Right Cheek Low 50RB0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.24 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.570 W/kg

Maximum value of SAR (measured) = 1.43 W/kg

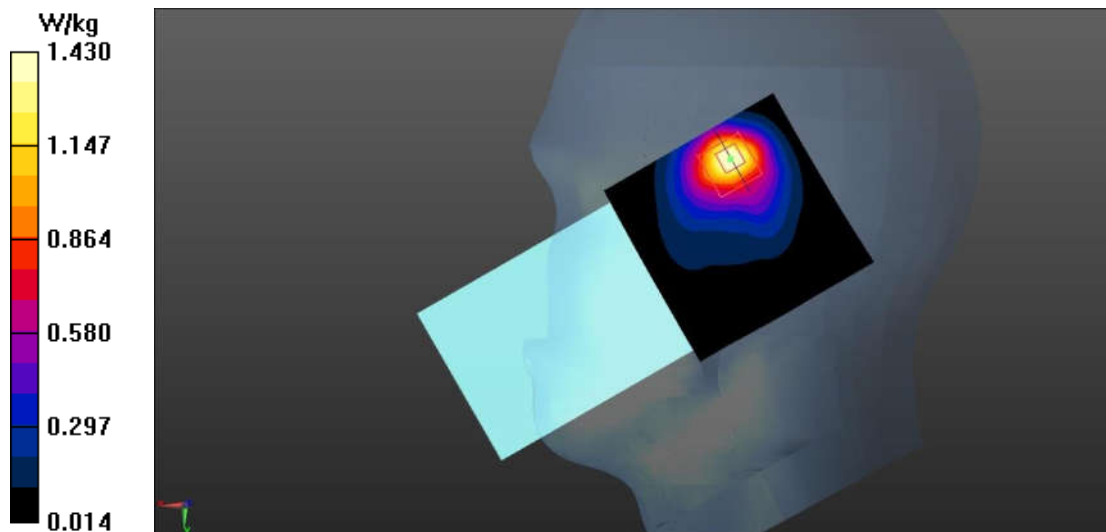


Fig.11 LTE Band 2 Head

LTE Band 2 Body

Date: 2025-03-20

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 40.711$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Bottom Side Middle 50RB0/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.774 W/kg

Bottom Side Middle 50RB0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.18 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.929 W/kg

SAR(1 g) = 0.548 W/kg; SAR(10 g) = 0.295 W/kg

Maximum value of SAR (measured) = 0.762 W/kg

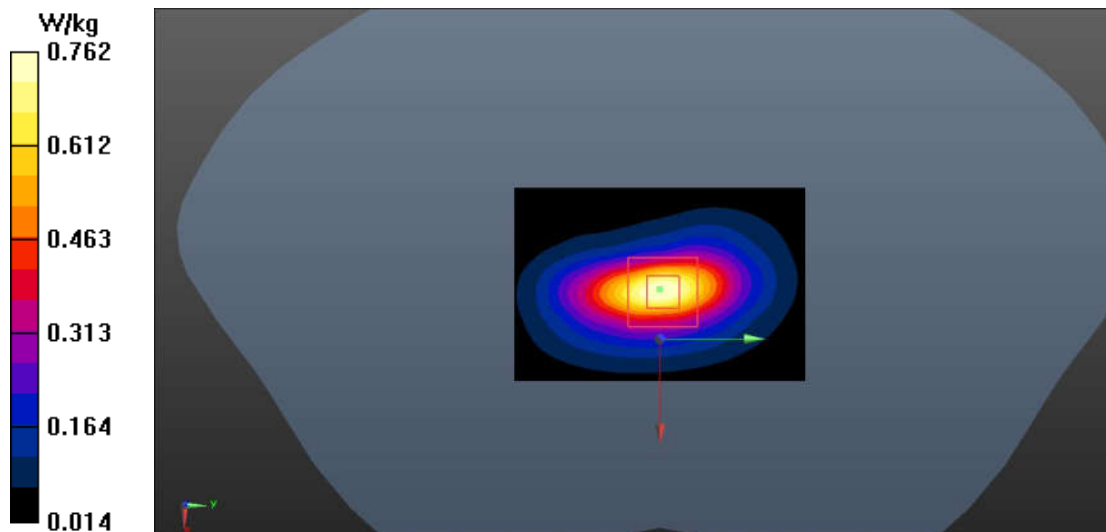


Fig.12 LTE Band 2 Body

LTE Band 7 Head

Date: 2025-03-03

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 37.914$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Right Cheek High 1RB99/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.49 W/kg

Right Cheek High 1RB99/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.40 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.437 W/kg

Maximum value of SAR (measured) = 1.34 W/kg

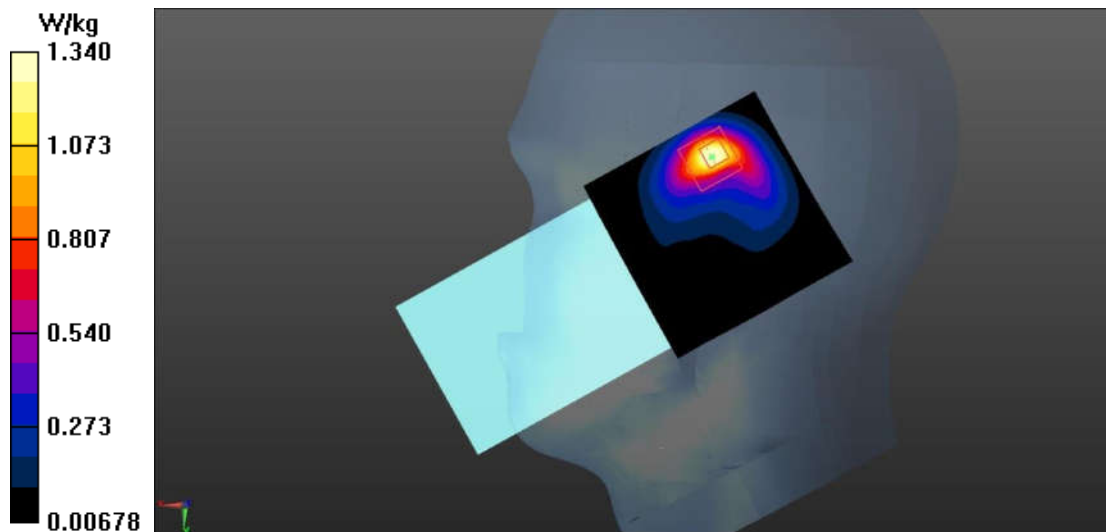


Fig.13 LTE Band 7 Head

LTE Band 7 Body

Date: 2025-03-03

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 37.914$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 2560 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Left Side High 50RB50/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.915 W/kg

Left Side High 50RB50/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.58 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.580 W/kg; SAR(10 g) = 0.255 W/kg

Maximum value of SAR (measured) = 0.924 W/kg

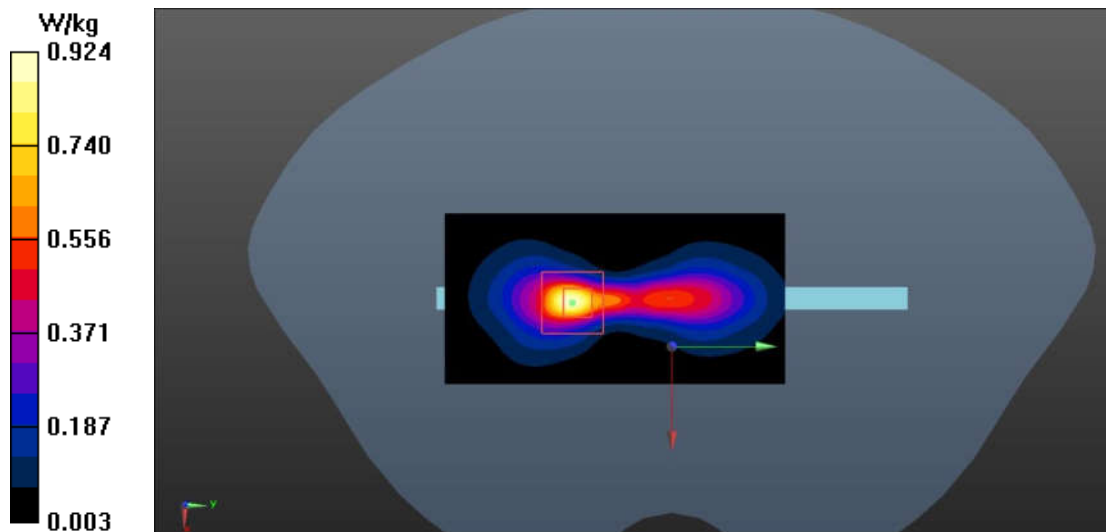


Fig.14 LTE Band 7 Body

LTE Band 12 Head

Date: 2025-02-26

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used (interpolated): $f = 711 \text{ MHz}$; $\sigma = 0.858 \text{ S/m}$; $\epsilon_r = 43.479$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek High 25RB12/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.18 W/kg

Right Cheek High 25RB12/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.78 V/m ; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.864 W/kg ; SAR(10 g) = 0.470 W/kg

Maximum value of SAR (measured) = 1.19 W/kg

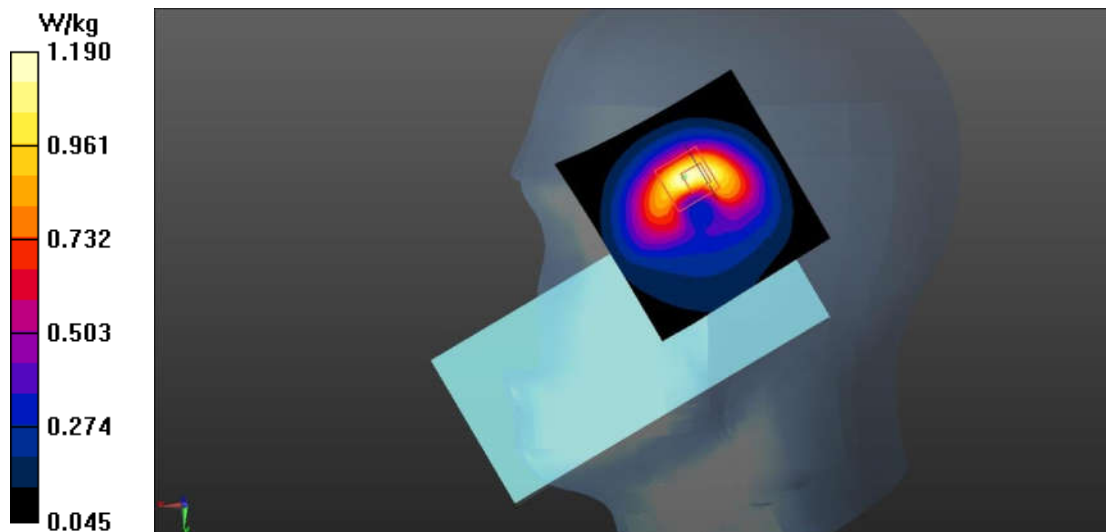


Fig.15 LTE Band 12 Head

LTE Band 12 Body

Date: 2025-02-26

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used (interpolated): $f = 711$ MHz; $\sigma = 0.858$ S/m; $\epsilon_r = 43.479$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 711 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Side High 1RB49/Area Scan (41x101x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 1.02 W/kg

Left Side High 1RB49/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 22.00 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.699 W/kg; SAR(10 g) = 0.418 W/kg

Maximum value of SAR (measured) = 0.958 W/kg

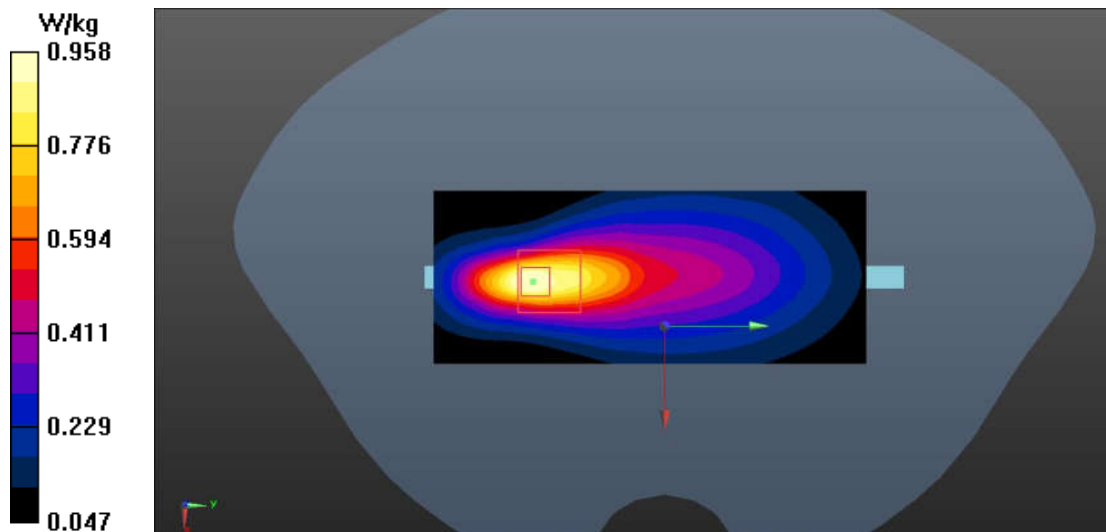


Fig.16 LTE Band 12 Body

LTE Band 13 Head

Date: 2025-02-26

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.903 \text{ S/m}$; $\epsilon_r = 42.627$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek Middle 50RB/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.20 W/kg

Right Cheek Middle 50RB/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.26 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.876 W/kg; SAR(10 g) = 0.478 W/kg

Maximum value of SAR (measured) = 1.19 W/kg

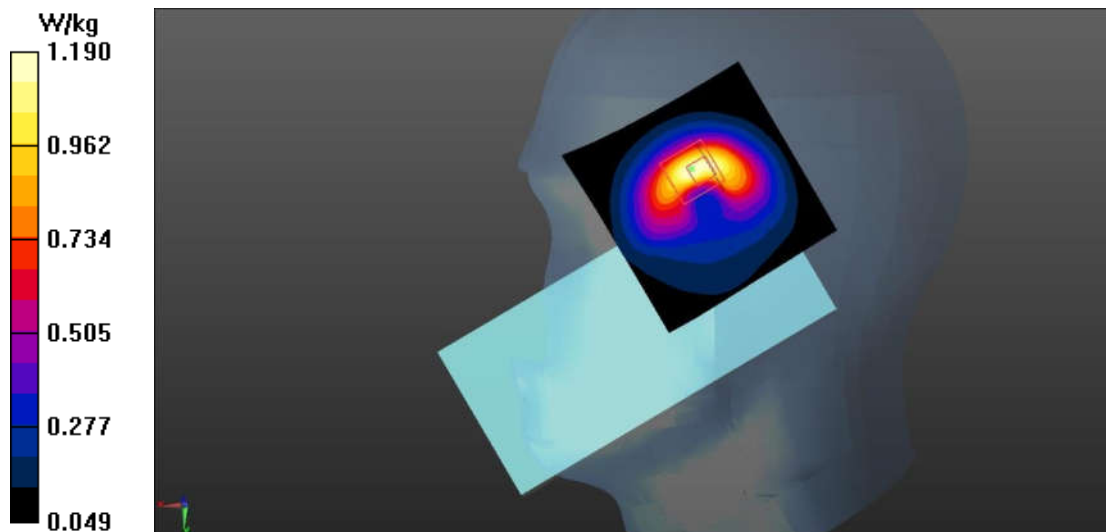


Fig.17 LTE Band 13 Head

LTE Band 13 Body

Date: 2025-02-26

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.903 \text{ S/m}$; $\epsilon_r = 42.627$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 782 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Side Middle 1RB24/Area Scan (41x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.03 W/kg

Left Side Middle 1RB24/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 21.09 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.25 W/kg

SAR(1 g) = 0.719 W/kg ; SAR(10 g) = 0.417 W/kg

Maximum value of SAR (measured) = 0.996 W/kg

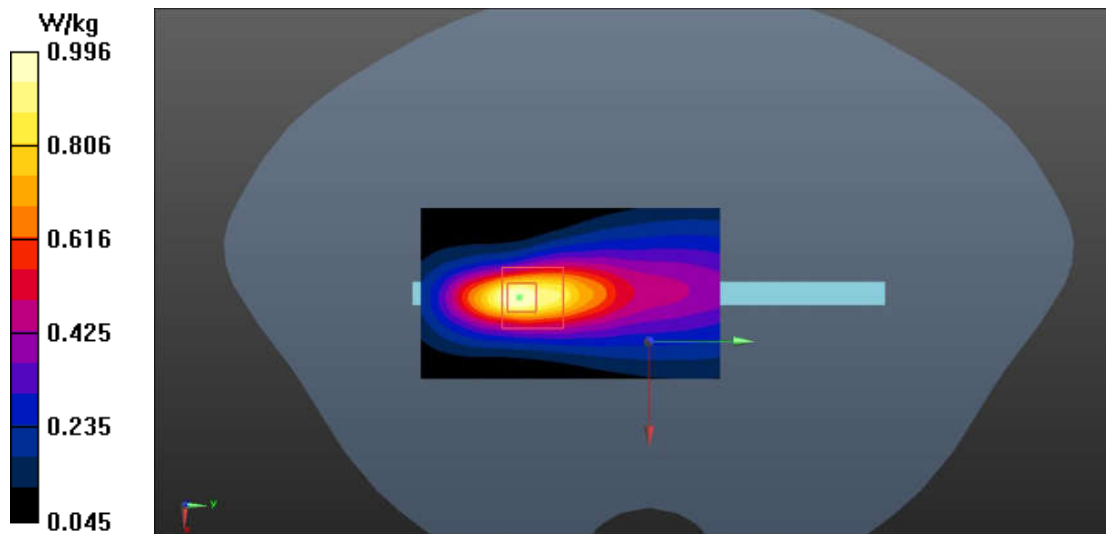


Fig.18 LTE Band 13 Body

LTE Band 26 Head

Date: 2025-02-27

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 822.5$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 40.915$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_FDD (0) Frequency: 822.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek Low 1RB37/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.803 W/kg

Right Cheek Low 1RB37/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.591 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.557 W/kg; SAR(10 g) = 0.308 W/kg

Maximum value of SAR (measured) = 0.821 W/kg

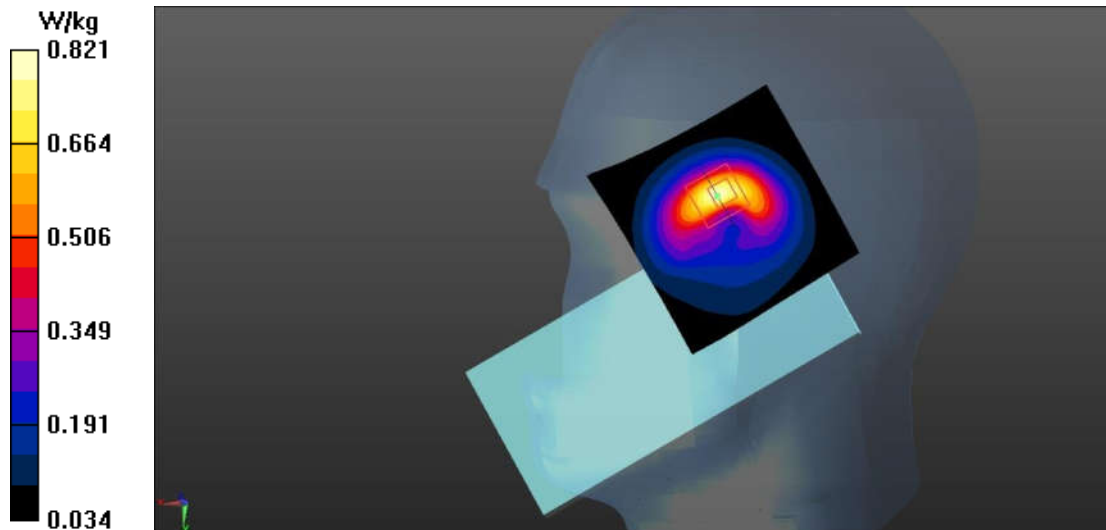


Fig.19 LTE Band 26 Head

LTE Band 26 Body

Date: 2025-02-27

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used: $f = 842 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 40.681$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 841.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Side High 1RB37/Area Scan (41x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.15 W/kg

Left Side High 1RB37/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.68 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.799 W/kg; SAR(10 g) = 0.434 W/kg

Maximum value of SAR (measured) = 1.15 W/kg

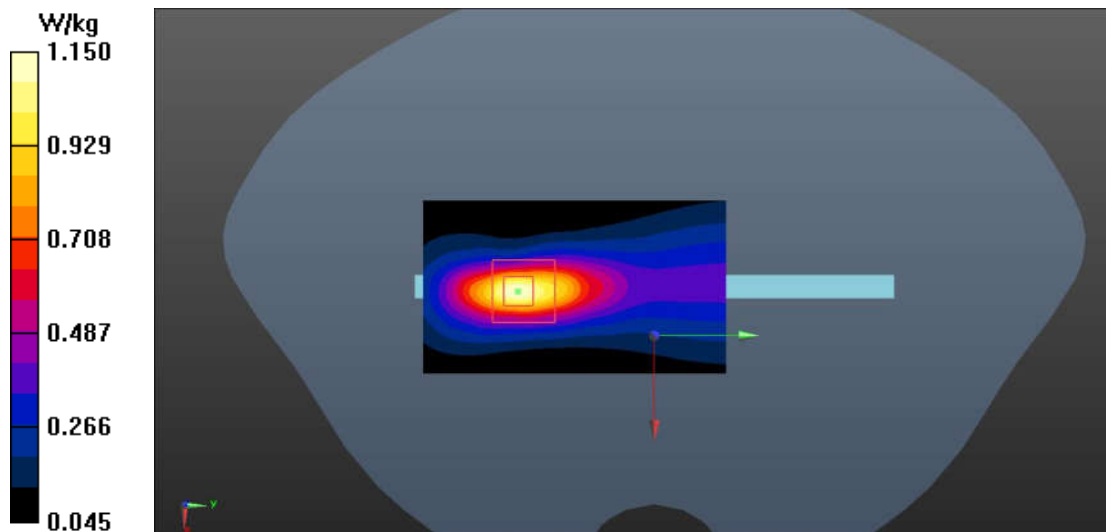


Fig.20 LTE Band 26 Body

LTE Band 66 Head

Date: 2025-03-07

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used (interpolated): $f = 1745 \text{ MHz}$; $\sigma = 1.389 \text{ S/m}$; $\epsilon_r = 39.371$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 1745 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

Left Cheek Middle 50RB25/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.22 W/kg

Left Cheek Middle 50RB25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.168 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.459 W/kg

Maximum value of SAR (measured) = 1.47 W/kg

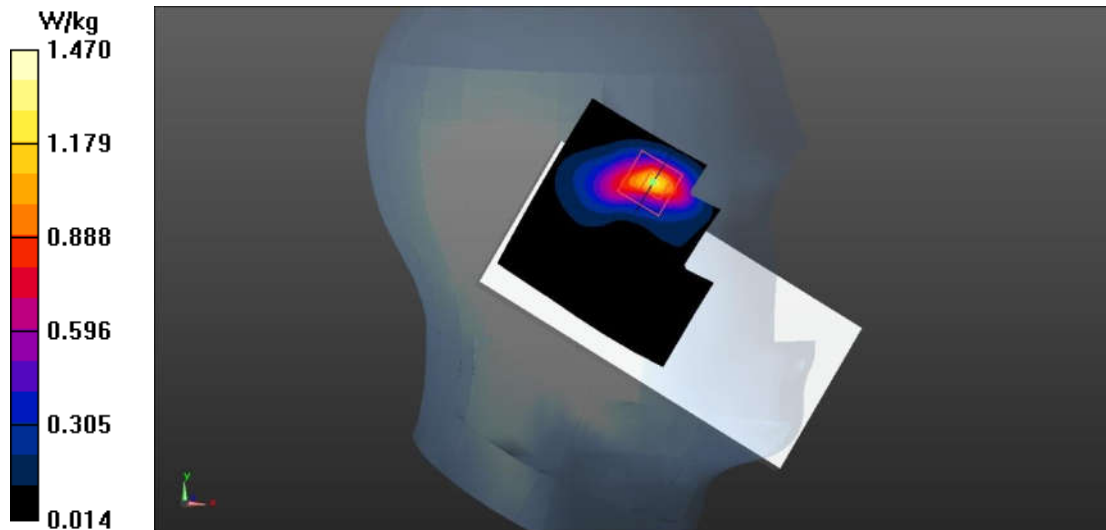


Fig.21 LTE Band 66 Head

LTE Band 66 Body

Date: 2025-03-07

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used: $f = 1770 \text{ MHz}$; $\sigma = 1.411 \text{ S/m}$; $\epsilon_r = 39.622$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, LTE_FDD (0) Frequency: 1770 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

Left Side High 50RB0/Area Scan (41x71x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.34 W/kg

Left Side High 50RB0/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.66 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.944 W/kg; SAR(10 g) = 0.495 W/kg

Maximum value of SAR (measured) = 1.32 W/kg

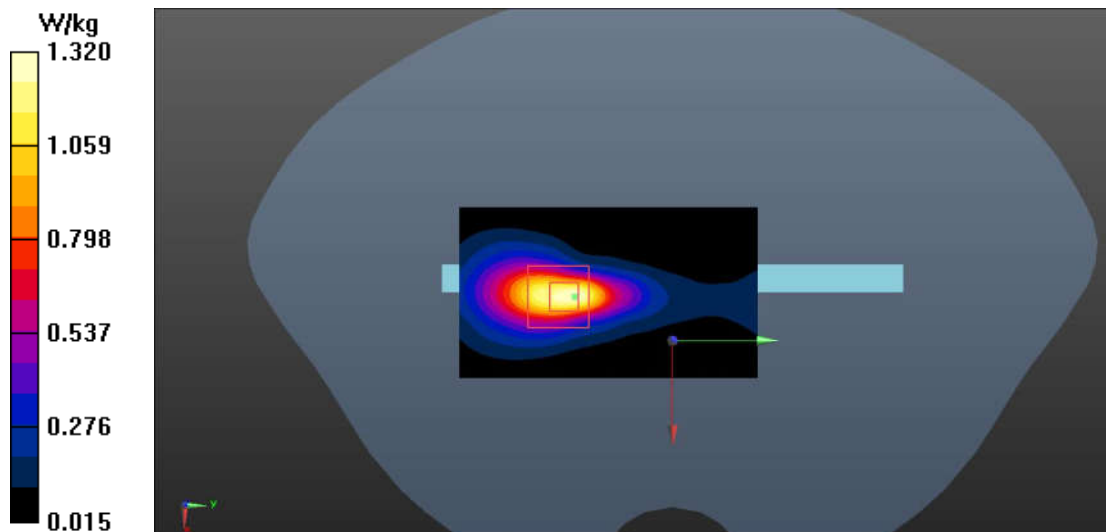


Fig.22 LTE Band 66 Body

LTE Band 38 Head

Date: 2025-03-03

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2610$ MHz; $\sigma = 2.018$ S/m; $\epsilon_r = 37.749$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_TDD (0) Frequency: 2610 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Right Cheek High 1RB99/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.58 W/kg

Right Cheek High 1RB99/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.455 W/kg

Maximum value of SAR (measured) = 1.44 W/kg

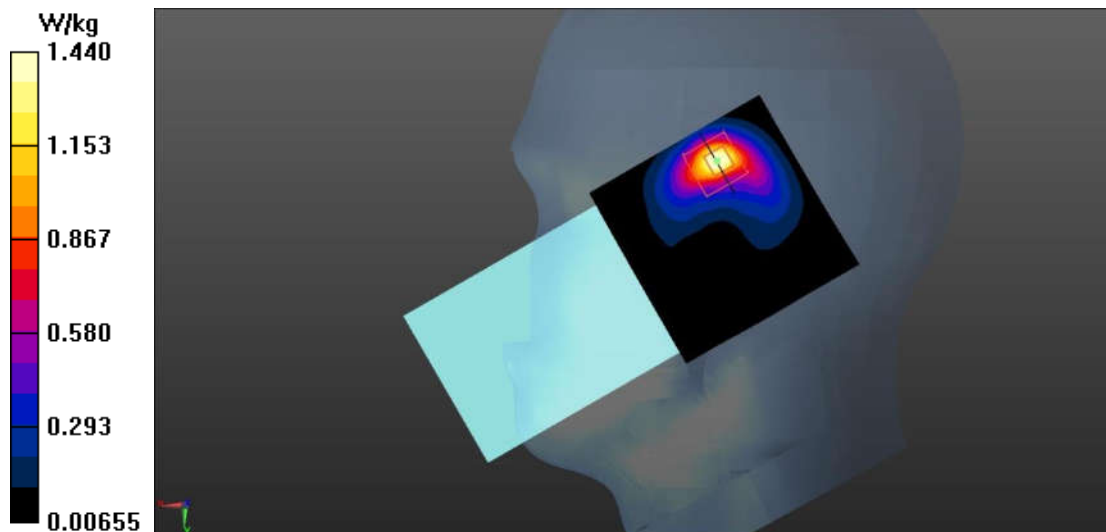


Fig.23 LTE Band 38 Head

LTE Band 38 Body

Date: 2025-03-03

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2610$ MHz; $\sigma = 2.018$ S/m; $\epsilon_r = 37.749$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE_TDD (0) Frequency: 2610 MHz Duty Cycle: 1:1.58

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Left Side High 1RB99/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

Left Side High 1RB99/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.93 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.299 W/kg

Maximum value of SAR (measured) = 1.08 W/kg

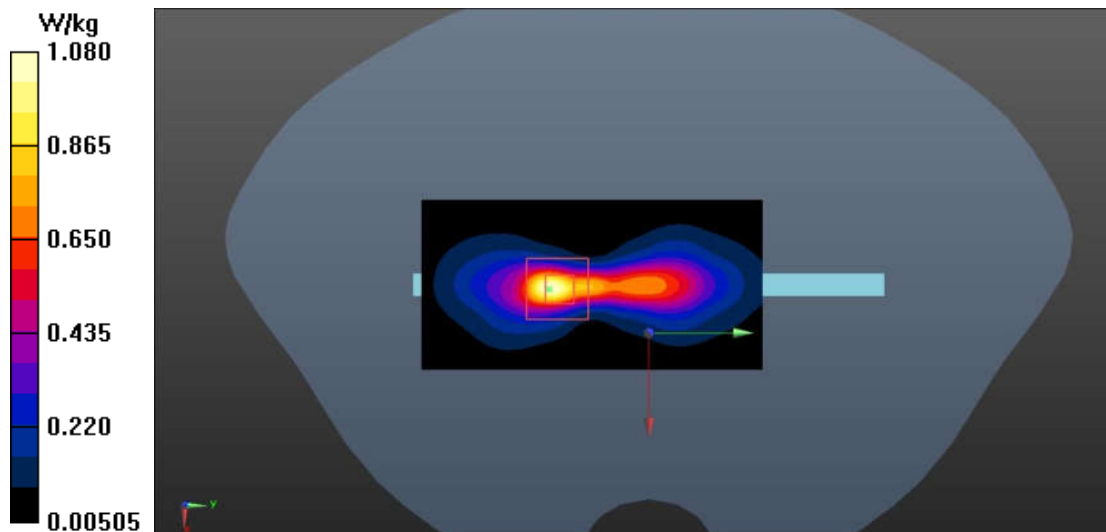


Fig.24 LTE Band 38 Body

LTE Band 41 Head

Date: 2025-04-02

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used (interpolated): $f = 2636.5$ MHz; $\sigma = 1.985$ S/m; $\epsilon_r = 39.103$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE TDD HP (0) Frequency: 2636.5 MHz Duty Cycle: 1:2.31

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Right Cheek Mid-High 1RB99/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.18 W/kg

Right Cheek Mid-High 1RB99/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.443 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.342 W/kg

Maximum value of SAR (measured) = 1.07 W/kg

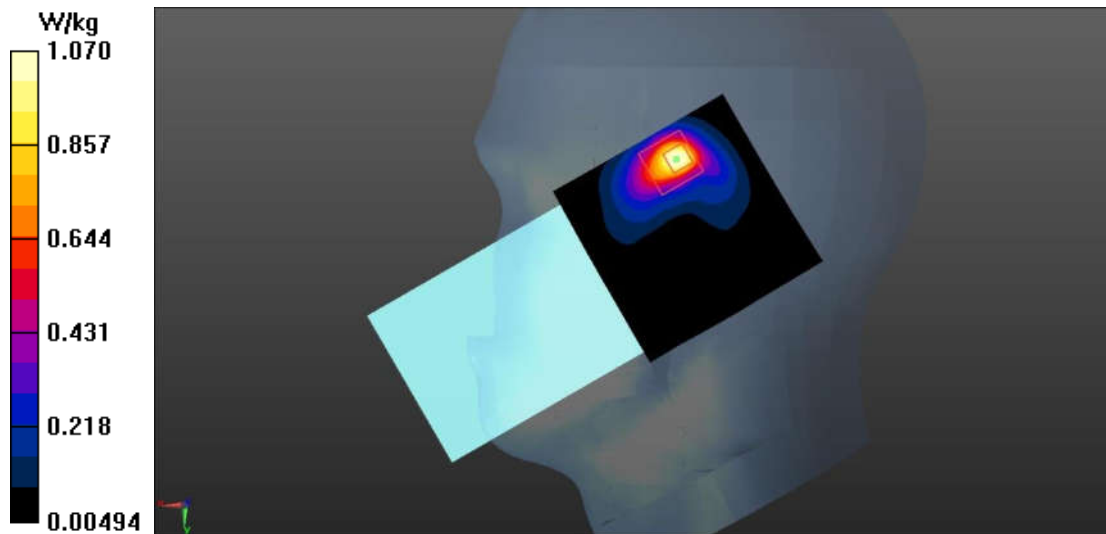


Fig.25 LTE Band 41 Head

LTE Band 41 Body

Date: 2025-04-02

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2680$ MHz; $\sigma = 2.036$ S/m; $\epsilon_r = 38.96$; $\rho = 1000$ kg/m³

Communication System: UID 0, LTE TDD HP (0) Frequency: 2680 MHz Duty Cycle: 1:2.31

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Left Side High 1RB99/Area Scan (61x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.29 W/kg

Left Side High 1RB99/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.56 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.361 W/kg

Maximum value of SAR (measured) = 1.23 W/kg

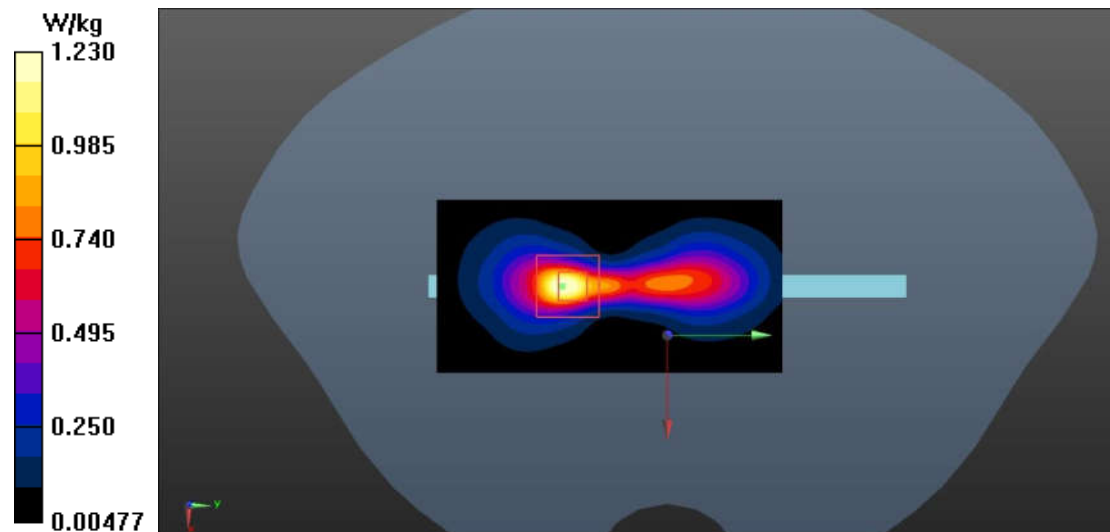


Fig.26 LTE Band 41 Body

NR n2 Head

Date: 2025-03-20

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1860 \text{ MHz}$; $\sigma = 1.36 \text{ S/m}$; $\epsilon_r = 40.789$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, NR (0) Frequency: 1860 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Right Cheek Low 50@25/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.995 W/kg

Right Cheek Low 50@25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.30 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.385 W/kg

Maximum value of SAR (measured) = 0.940 W/kg

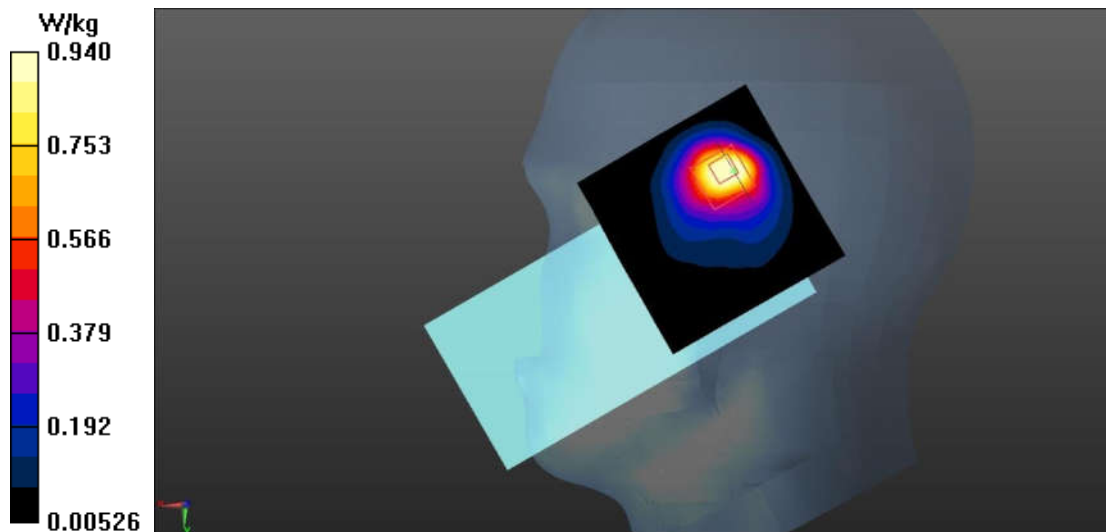


Fig.27 NR n2 Head

NR n2 Body

Date: 2025-03-20

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 40.711$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 1880 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

Bottom Side Middle 50@25/Area Scan (41x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.657 W/kg

Bottom Side Middle 50@25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.23 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.828 W/kg

SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.258 W/kg

Maximum value of SAR (measured) = 0.677 W/kg

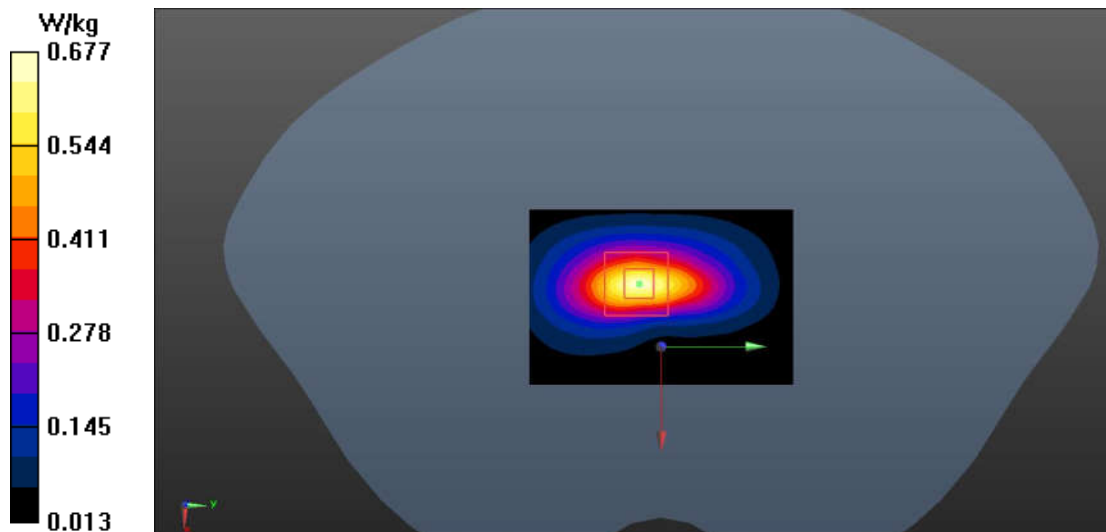


Fig.28 NR n2 Body

NR n5 Head

Date: 2025-02-27

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 40.747$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Right Cheek Middle 50@25/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.988 W/kg

Right Cheek Middle 50@25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.712 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.631 W/kg; SAR(10 g) = 0.330 W/kg

Maximum value of SAR (measured) = 0.960 W/kg

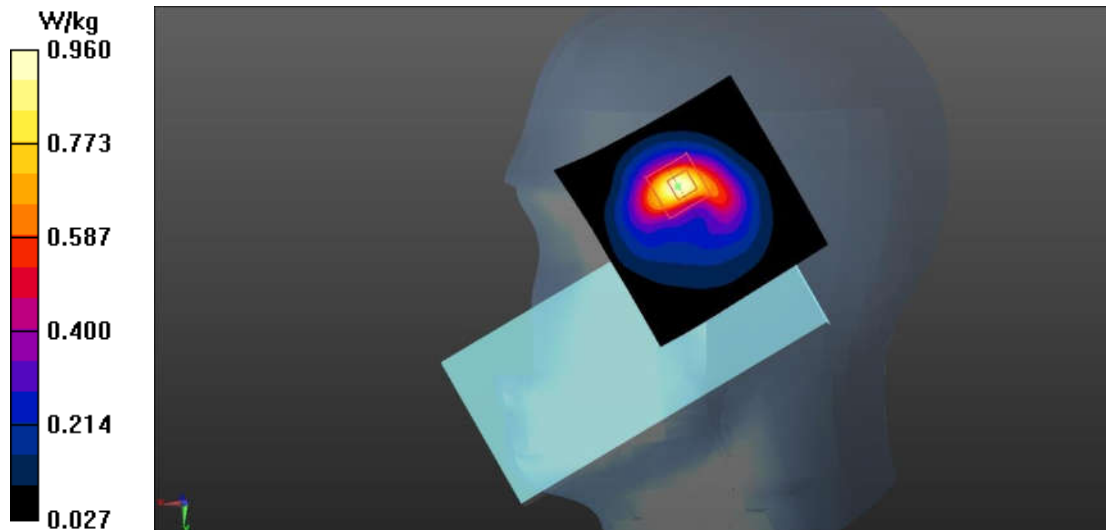


Fig.29 NR n5 Head

NR n5 Body

Date: 2025-02-27

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 836.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 40.747$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 836.5 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.70, 9.40)

Left Side Middle 50@25/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.691 W/kg

Left Side Middle 50@25/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.11 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.973 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.274 W/kg

Maximum value of SAR (measured) = 0.724 W/kg

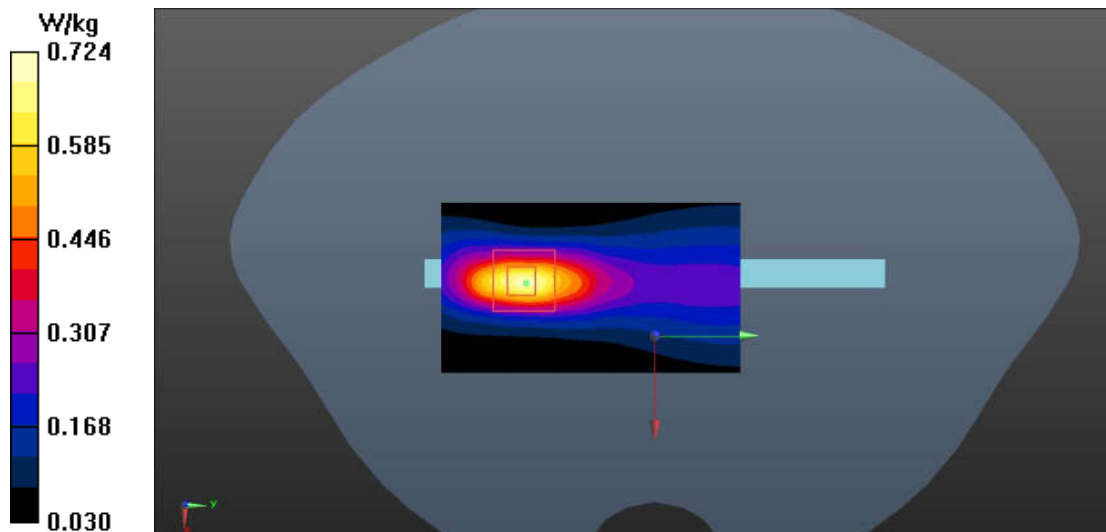


Fig.30 NR n5 Body

NR n7 Head

Date: 2025-03-03

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used (interpolated): $f = 2525$ MHz; $\sigma = 1.918$ S/m; $\epsilon_r = 38.03$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 2525 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

Right Cheek Low 135@67/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.84 W/kg

Right Cheek Low 135@67/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.765 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.496 W/kg

Maximum value of SAR (measured) = 1.72 W/kg

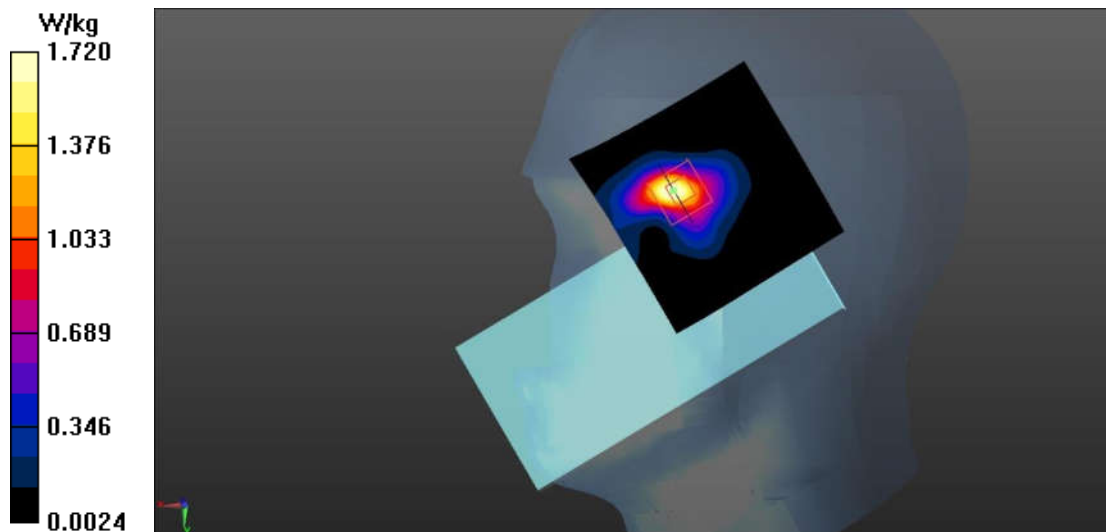


Fig.31 NR n7 Head

NR n7 Body

Date: 2025-03-03

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used (interpolated): $f = 2525$ MHz; $\sigma = 1.918$ S/m; $\epsilon_r = 38.03$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 2525 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

Left Side Low 135@67/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.30 W/kg

Left Side Low 135@67/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.95 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.911 W/kg; SAR(10 g) = 0.395 W/kg

Maximum value of SAR (measured) = 1.37 W/kg

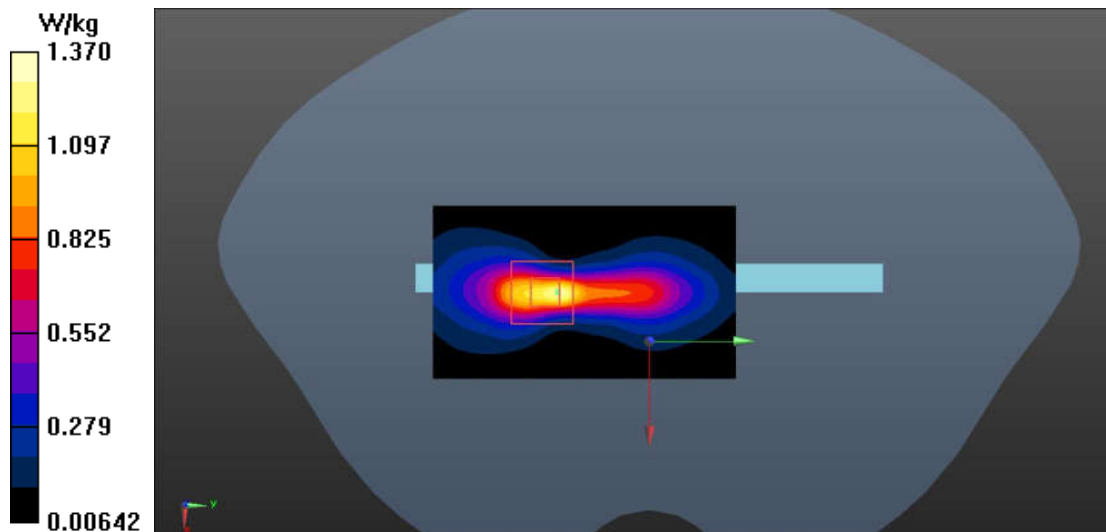


Fig.32 NR n7 Body

NR n66 Head

Date: 2025-03-07

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used: $f = 1760$ MHz; $\sigma = 1.402$ S/m; $\epsilon_r = 39.312$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 1760 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

Right Cheek High 108@54/Area Scan (61x61x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
Maximum value of SAR (interpolated) = 1.31 W/kg

Right Cheek High 108@54/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 11.66 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 0.990 W/kg; SAR(10 g) = 0.520 W/kg

Maximum value of SAR (measured) = 1.24 W/kg

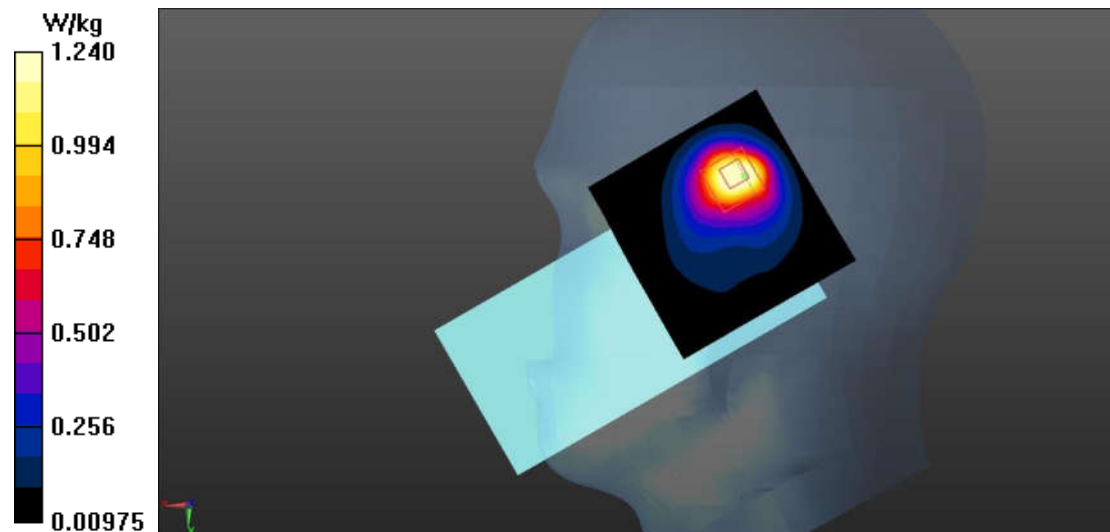


Fig.33 NR n66 Head

NR n66 Body

Date: 2025-03-07

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used: $f = 1760$ MHz; $\sigma = 1.365$ S/m; $\epsilon_r = 40.69$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 1760 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

Left Side High 108@54/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.34 W/kg

Left Side High 108@54/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.779 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.504 W/kg

Maximum value of SAR (measured) = 1.36 W/kg

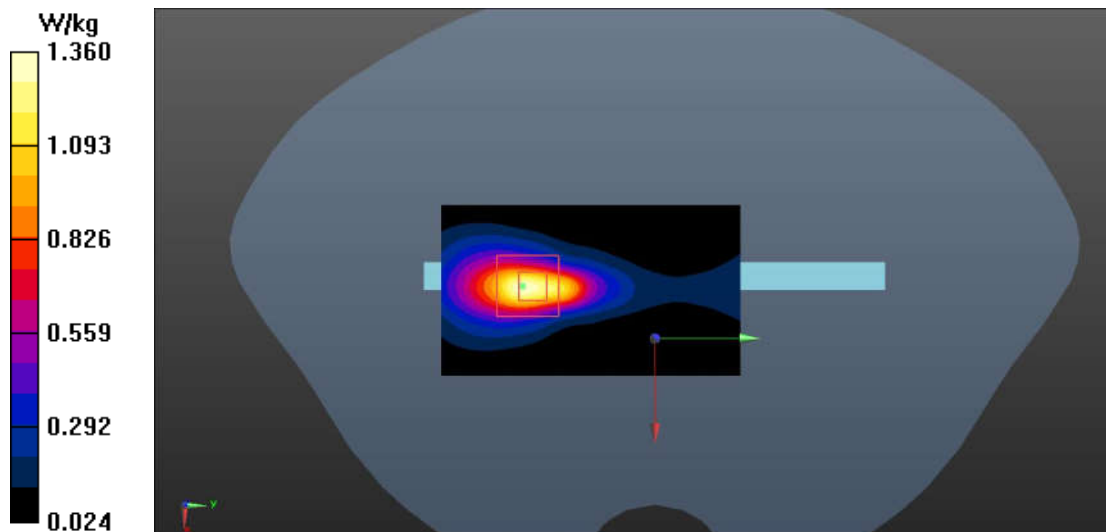


Fig.34 NR n66 Body

NR n38 Head

Date: 2025-03-16

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.003$ S/m; $\epsilon_r = 38.557$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Right Cheek High 50@25/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.15 W/kg

Right Cheek High 50@25/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.730 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.366 W/kg

Maximum value of SAR (measured) = 1.21 W/kg

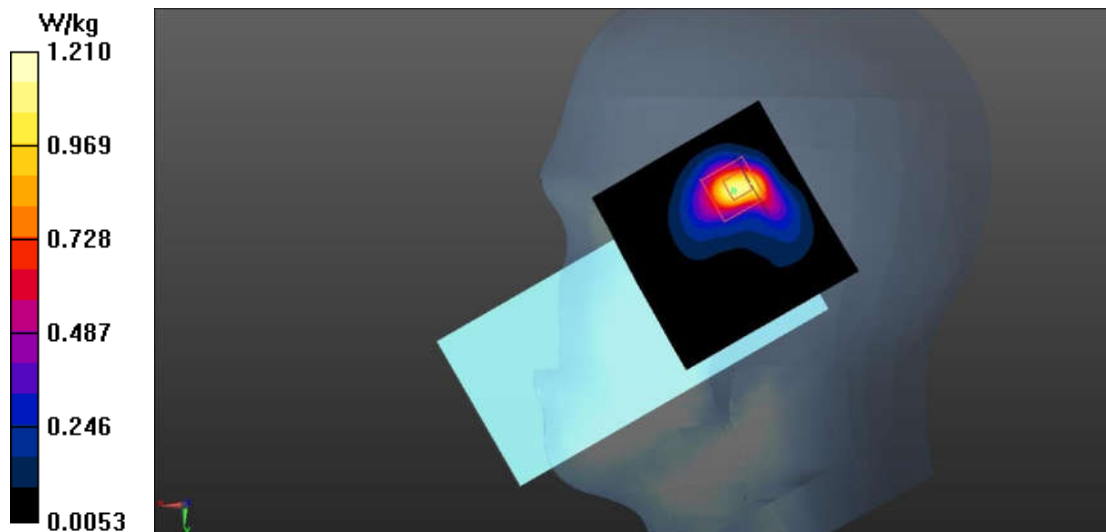


Fig.35 NR n38 Head

NR n38 Body

Date: 2025-03-16

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2600$ MHz; $\sigma = 2.003$ S/m; $\epsilon_r = 38.557$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 2600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Left Side High 50@25/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.16 W/kg

Left Side High 50@25/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.72 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.385 W/kg

Maximum value of SAR (measured) = 1.41 W/kg

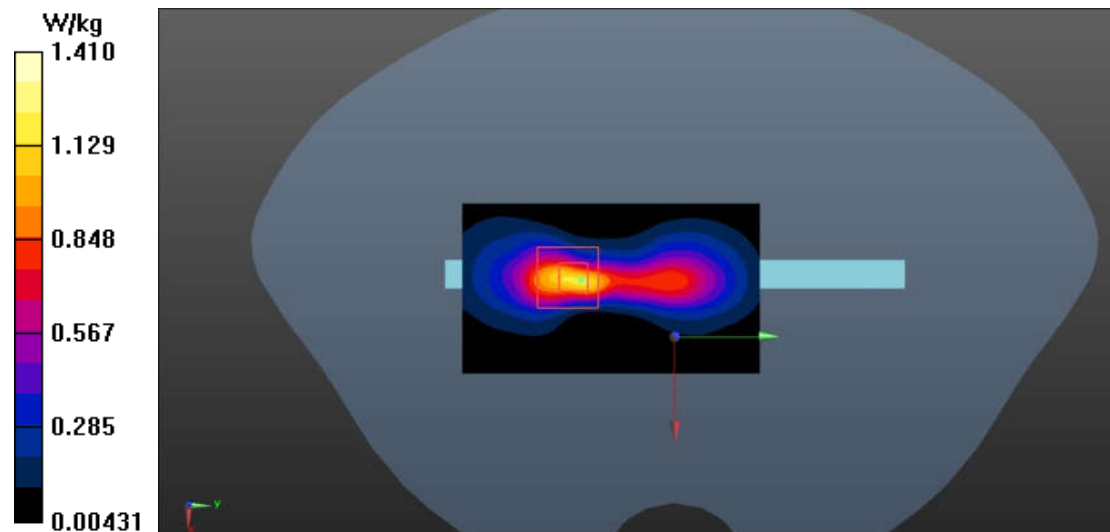


Fig.36 NR n38 Body

NR n41 Head

Date: 2025-03-16

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2640$ MHz; $\sigma = 2.051$ S/m; $\epsilon_r = 38.425$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 2640 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Right Cheek High 135@67/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.21 W/kg

Right Cheek High 135@67/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.564 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.914 W/kg; SAR(10 g) = 0.404 W/kg

Maximum value of SAR (measured) = 1.26 W/kg

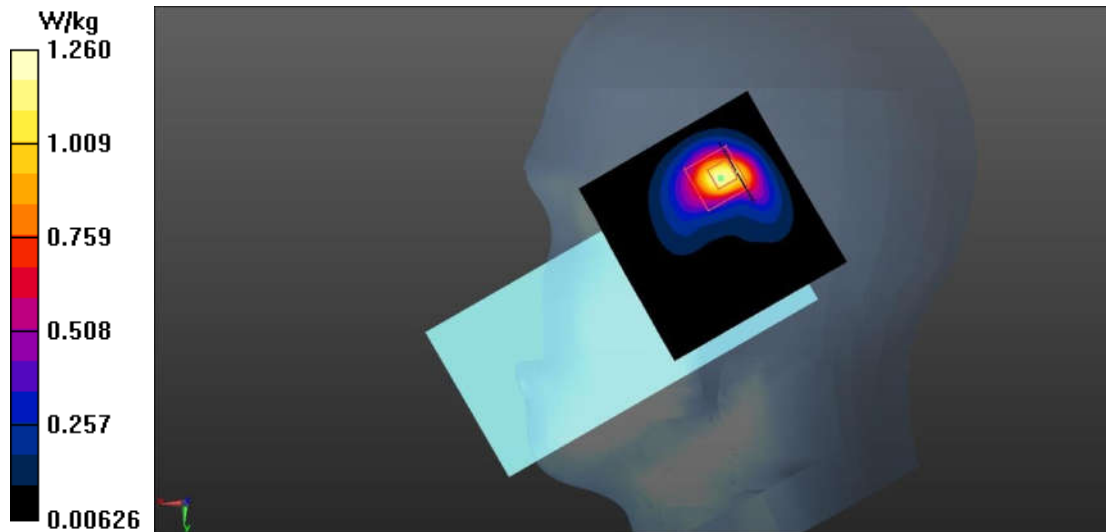


Fig.37 NR n41 Head

NR n41 Body

Date: 2025-03-16

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2640$ MHz; $\sigma = 2.051$ S/m; $\epsilon_r = 38.425$; $\rho = 1000$ kg/m³

Communication System: UID 0, NR (0) Frequency: 2640 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.93, 7.55, 7.39)

Rear Side High 135@67/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.13 W/kg

Rear Side High 135@67/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.154 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.440 W/kg

Maximum value of SAR (measured) = 1.18 W/kg

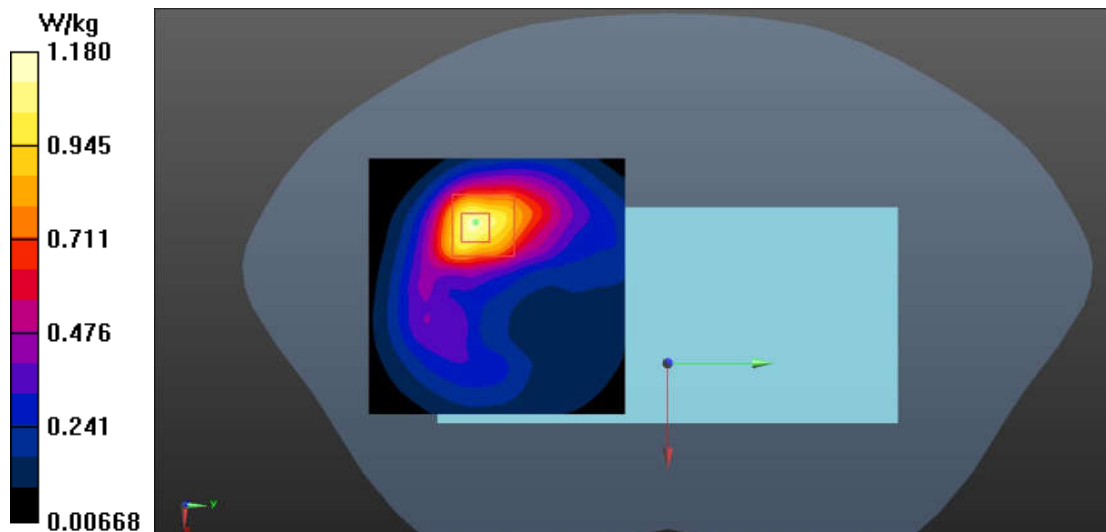


Fig.38 NR n41 Body

Bluetooth Head

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 2450MHz

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 38.122$; $\rho = 1000$ kg/m³

Communication System: UID 0, BT (0) Frequency: 2480 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

Right Cheek Ch.78/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.387 W/kg

Right Cheek Ch.78/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.08 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.615 W/kg

SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.121 W/kg

Maximum value of SAR (measured) = 0.439 W/kg

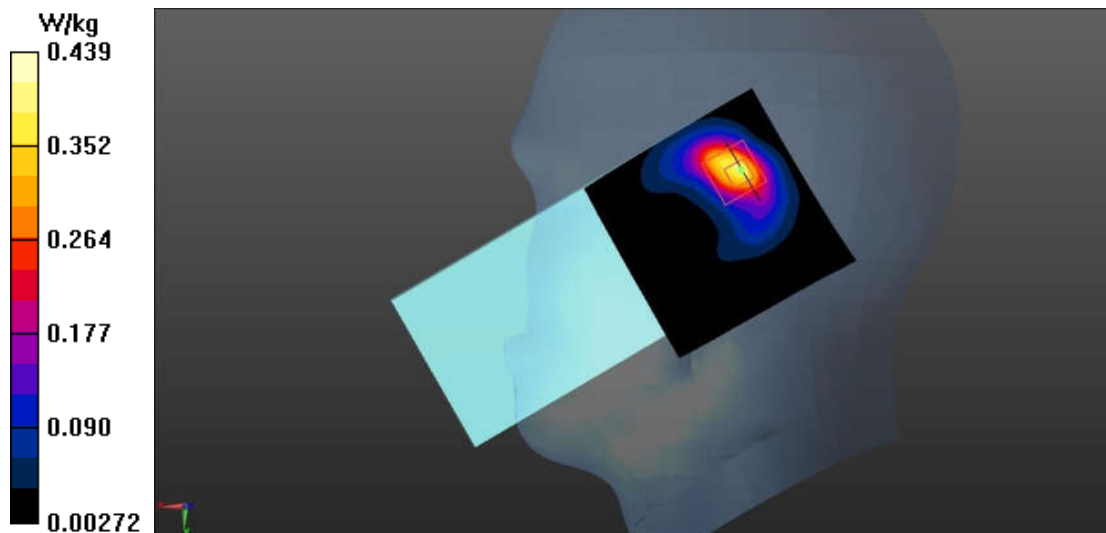


Fig.39 Bluetooth Head

Bluetooth Body

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 2450MHz

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.851$ S/m; $\epsilon_r = 38.122$; $\rho = 1000$ kg/m³

Communication System: UID 0, BT (0) Frequency: 2480 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

Rear Side Ch.78/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.130 W/kg

Rear Side Ch.78/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.080 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.100 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.132 W/kg

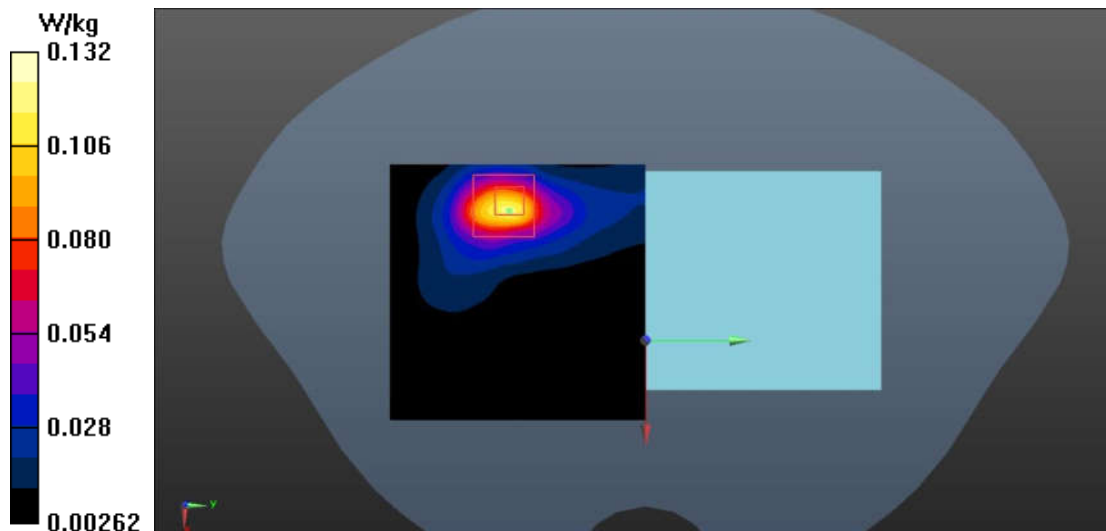


Fig.40 Bluetooth Body

WLAN 2.4GHz Head

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 2450MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.801$ S/m; $\epsilon_r = 38.264$; $\rho = 1000$ kg/m³

Communication System: UID 0, WLAN (0) Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

Right Cheek Ch.6/Area Scan (91x91x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.768 W/kg

Right Cheek Ch.6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.58 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 0.818 W/kg

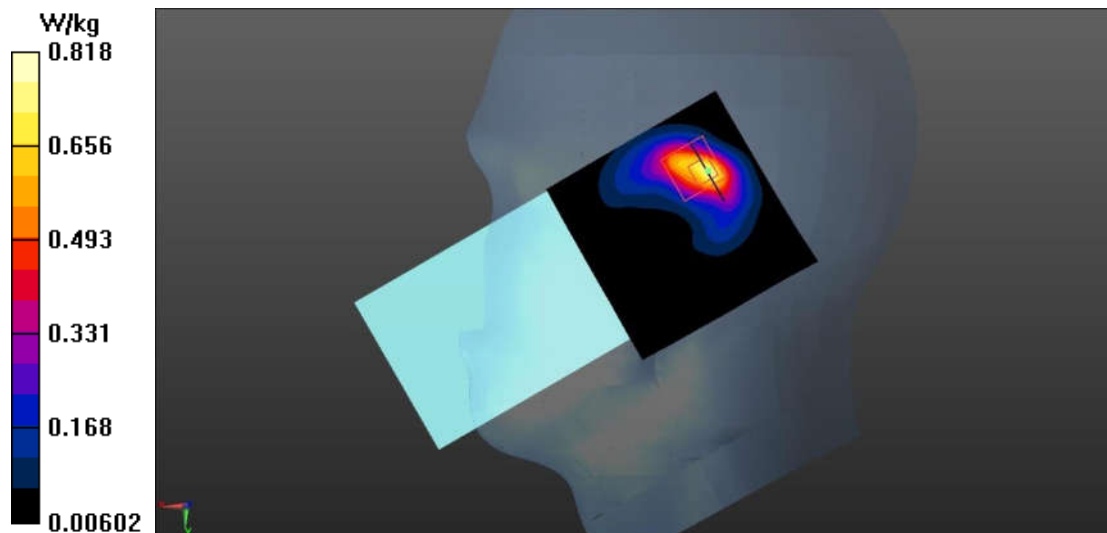


Fig.41 WLAN 2.4GHz Head

WLAN 2.4GHz Body

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 2450MHz

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.801$ S/m; $\epsilon_r = 38.264$; $\rho = 1000$ kg/m³

Communication System: UID 0, WLAN (0) Frequency: 2437 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

Right Side Ch.6/Area Scan (61x111x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.463 W/kg

Right Side Ch.6/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.166 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.640 W/kg

SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.157 W/kg

Maximum value of SAR (measured) = 0.485 W/kg

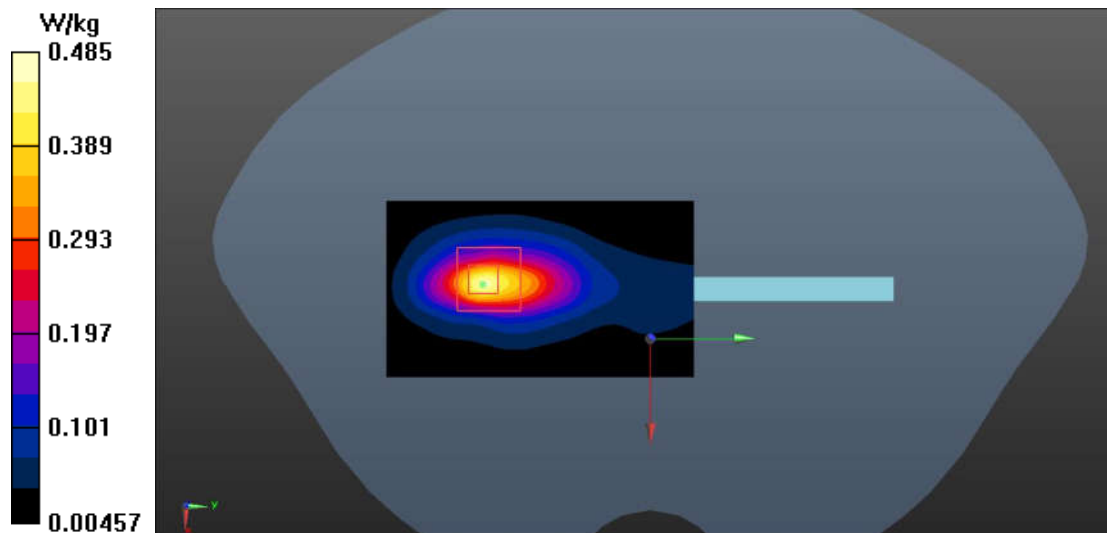


Fig.42 WLAN 2.4GHz Body

WLAN 5GHz Head

Date: 2025-03-18

Electronics: DAE4 Sn1790

Medium: Head 5600MHz

Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.972$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, WLAN 5G (0) Frequency: 5580 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (5.46, 5.19, 5.09)

Left Cheek Ch.116/Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 1.50 W/kg

Left Cheek Ch.116/Zoom Scan (8x8x21)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 7.866 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.15 W/kg

SAR(1 g) = 0.795 W/kg; SAR(10 g) = 0.280 W/kg

Maximum value of SAR (measured) = 1.42 W/kg

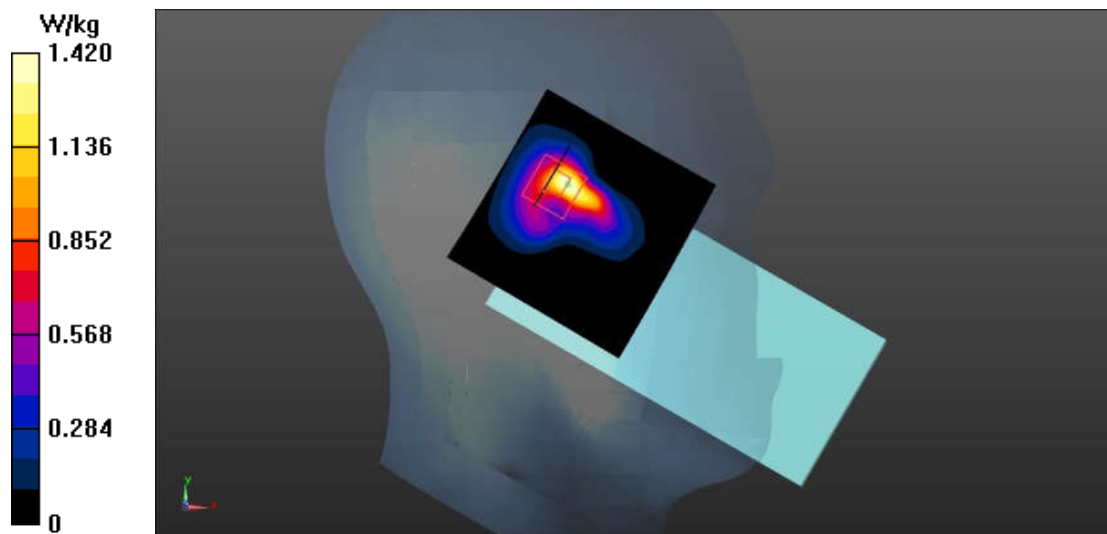


Fig.43 WLAN 5GHz Head

WLAN 5GHz Body

Date: 2025-03-17

Electronics: DAE4 Sn1790

Medium: Head 5250MHz

Medium parameters used: $f = 5220 \text{ MHz}$; $\sigma = 4.611 \text{ S/m}$; $\epsilon_r = 36.766$; $\rho = 1000 \text{ kg/m}^3$

Communication System: UID 0, WLAN 5G (0) Frequency: 5220 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (6.03, 5.73, 5.62)

Right Side Ch.44/Area Scan (61x111x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.804 W/kg

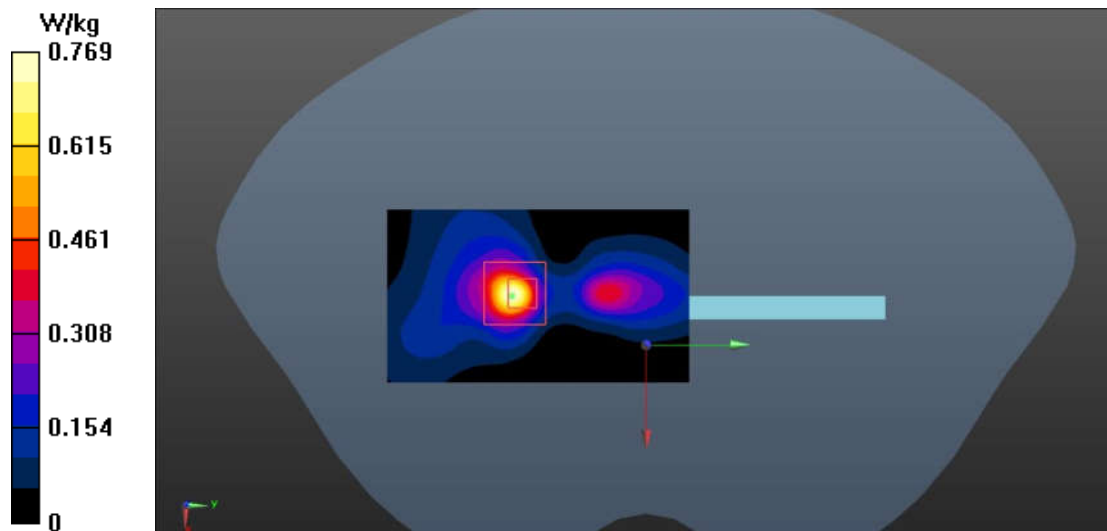
Right Side Ch.44/Zoom Scan (8x8x21)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 2.897 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.419 W/kg; SAR(10 g) = 0.153 W/kg

Maximum value of SAR (measured) = 0.769 W/kg

**Fig.44 WLAN 5GHz Body**

WLAN 5GHz Extremity

Date: 2025-03-17

Electronics: DAE4 Sn1790

Medium: Head 5250MHz

Medium parameters used: $f = 5260$ MHz; $\sigma = 4.665$ S/m; $\epsilon_r = 36.658$; $\rho = 1000$ kg/m³

Communication System: UID 0, WLAN 5G (0) Frequency: 5260 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (6.03, 5.73, 5.62)

Right Side Ch.52/Area Scan (61x111x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 9.42 W/kg

Right Side Ch.52/Zoom Scan (8x8x21)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 4.836 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 17.9 W/kg

SAR(1 g) = 3.78 W/kg; SAR(10 g) = 0.881 W/kg

Maximum value of SAR (measured) = 11.3 W/kg

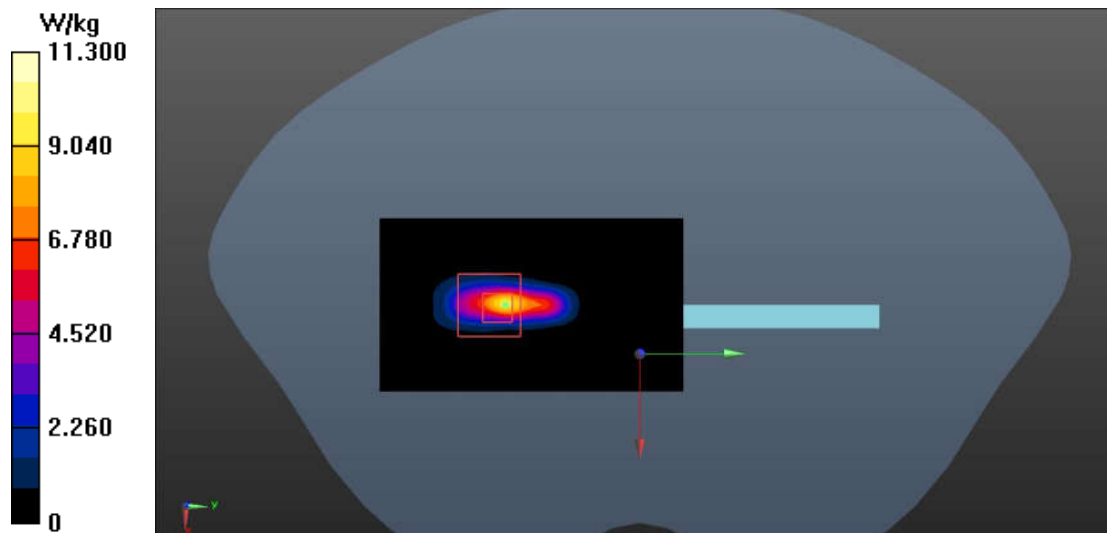


Fig.45 WLAN 5GHz Extremity

ANNEX B: System Check Results

13MHz

Date: 2025-03-13

Electronics: DAE4 Sn1790

Medium: Head 13MHz

Medium parameters used (interpolated): $f = 13 \text{ MHz}$; $\sigma = 0.766 \text{ S/m}$; $\epsilon_r = 54.124$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 13 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (18.80, 15.39, 15.39)

System Check/Area Scan (61x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Reference Value = 24.68 V/m; Power Drift = 0.13 dB

SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.285 W/kg

Maximum value of SAR (interpolated) = 0.715 W/kg

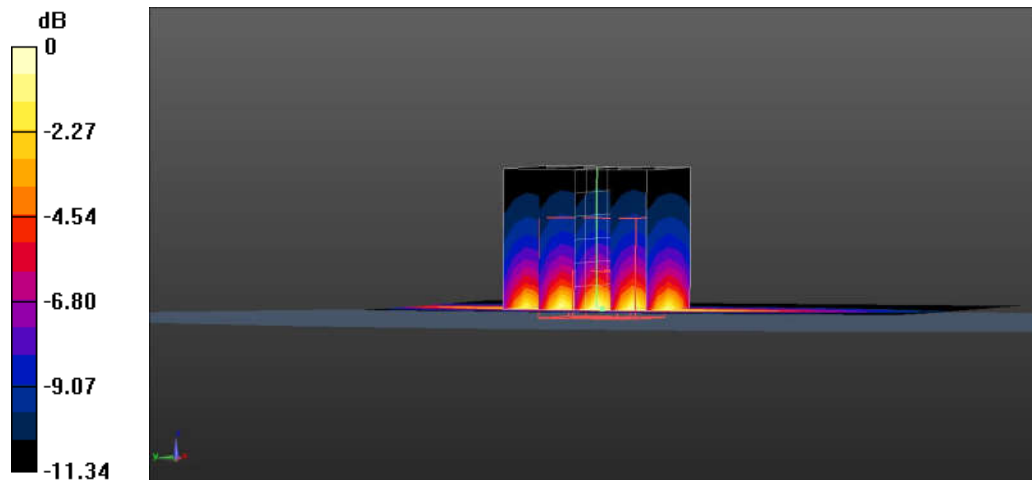
System Check/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.68 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.833 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.290 W/kg

Maximum value of SAR (measured) = 0.720 W/kg



0 dB = 0.720 W/kg = -1.43 dBW/kg

Fig.B.1. Validation 13MHz 1W

750MHz

Date: 2025-02-26

Electronics: DAE4 Sn1790

Medium: Head 750MHz

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.883 \text{ S/m}$; $\epsilon_r = 43.011$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (10.40, 9.90, 9.70)

System Check/Area Scan (81x161x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 22.45 V/m; Power Drift = -0.07 dB

SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.280 W/kg

Maximum value of SAR (interpolated) = 0.708 W/kg

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

Reference Value = 22.45 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.786 W/kg

SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.275 W/kg

Maximum value of SAR (measured) = 0.704 W/kg

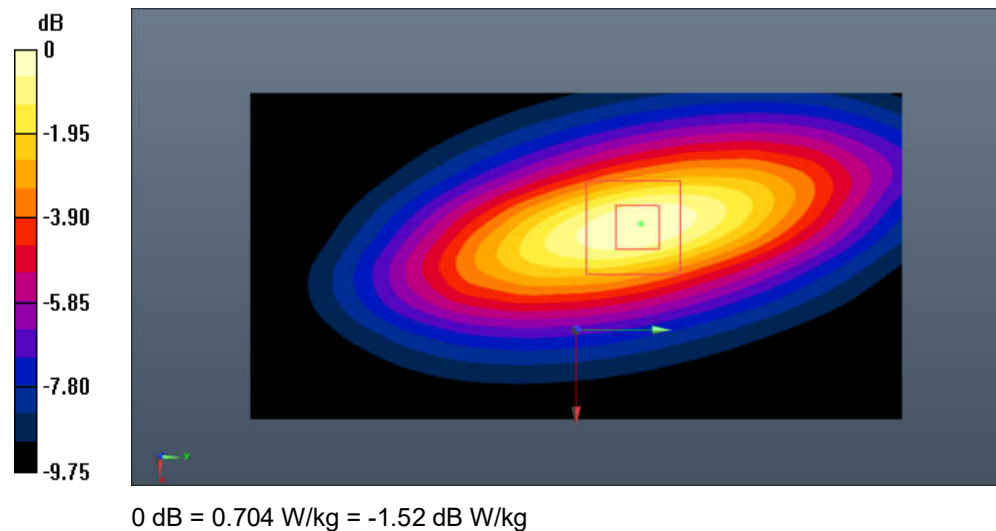


Fig.B.2. Validation 750MHz 50mW



835MHz

Date: 2025-02-27

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.919 \text{ S/m}$; $\epsilon_r = 40.765$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (9.93, 9.45, 9.26)

System Check/Area Scan (91x161x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 27.15 V/m; Power Drift = 0.09 dB

SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.322 W/kg

Maximum value of SAR (interpolated) = 0.768 W/kg

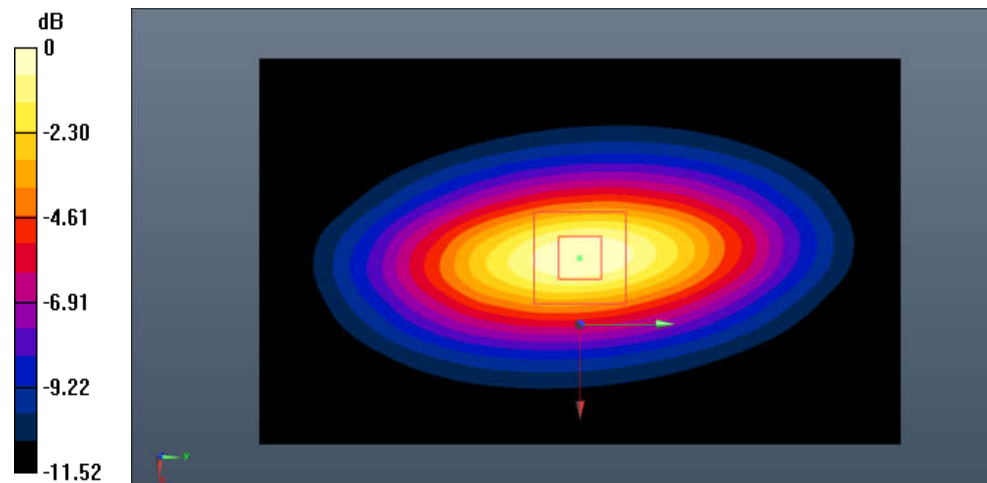
System Check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.15 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.926 W/kg

SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.328 W/kg

Maximum value of SAR (measured) = 0.773 W/kg



0 dB = 0.773 W/kg = -1.12 dB W/kg

Fig.B.3. Validation 835MHz 50mW

835MHz

Date: 2025-03-05

Electronics: DAE4 Sn1790

Medium: Head 835MHz

Medium parameters used (interpolated): $f = 835 \text{ MHz}$; $\sigma = 0.882 \text{ S/m}$; $\epsilon_r = 42.278$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 835 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (9.93, 9.45, 9.26)

System Check/Area Scan (91x161x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 26.04 V/m; Power Drift = -0.05 dB

SAR(1 g) = 0.477 W/kg; SAR(10 g) = 0.321 W/kg

Maximum value of SAR (interpolated) = 0.758 W/kg

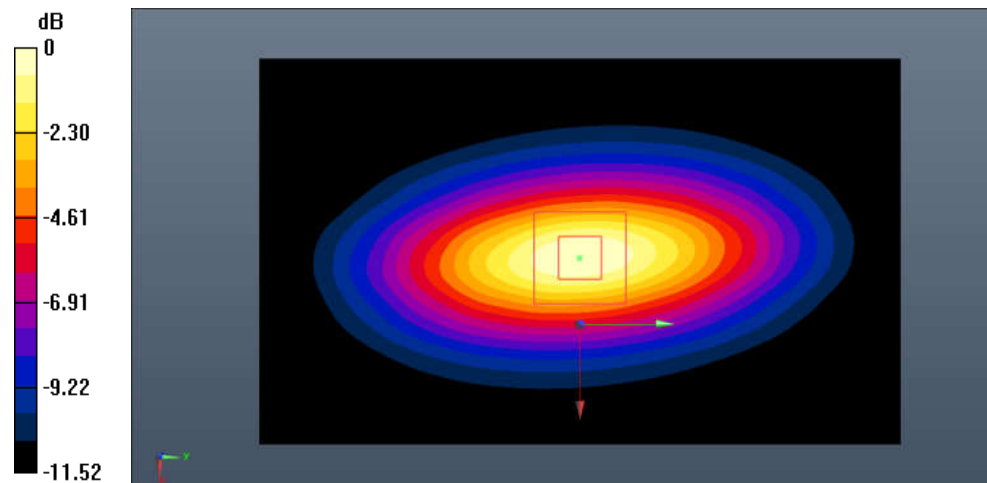
System Check/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 26.04 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.895 W/kg

SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.316 W/kg

Maximum value of SAR (measured) = 0.753 W/kg



0 dB = 0.753 W/kg = -1.23 dB W/kg

Fig.B.4. Validation 835MHz 50mW

1750MHz

Date: 2025-02-25

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.354 \text{ S/m}$; $\epsilon_r = 40.678$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

System Check/Area Scan (81x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 42.95 V/m; Power Drift = -0.07 dB

SAR(1 g) = 1.80 W/kg; SAR(10 g) = 0.972 W/kg

Maximum value of SAR (interpolated) = 2.45 W/kg

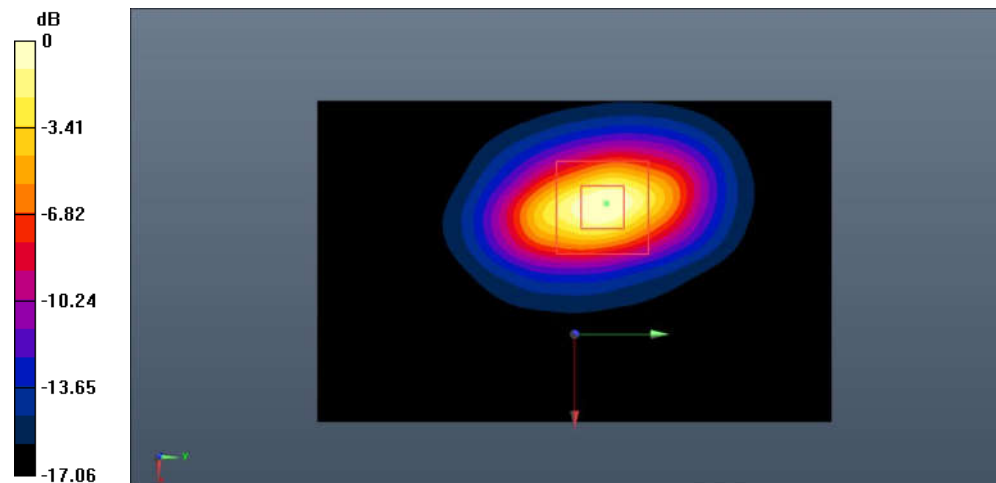
System Check/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 45.58 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 4.04 W/kg

SAR(1 g) = 1.74 W/kg; SAR(10 g) = 0.955 W/kg

Maximum value of SAR (measured) = 2.41 W/kg



0 dB = 2.41 W/kg = 3.82 dB W/kg

Fig.B.5. Validation 1750MHz 50mW



1750MHz

Date: 2025-03-07

Electronics: DAE4 Sn1790

Medium: Head 1750MHz

Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.351$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 1750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.60, 8.19, 8.02)

System Check/Area Scan (81x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 44.42 V/m; Power Drift = 0.13 dB

SAR(1 g) = 1.77 W/kg; SAR(10 g) = 0.983 W/kg

Maximum value of SAR (interpolated) = 2.52 W/kg

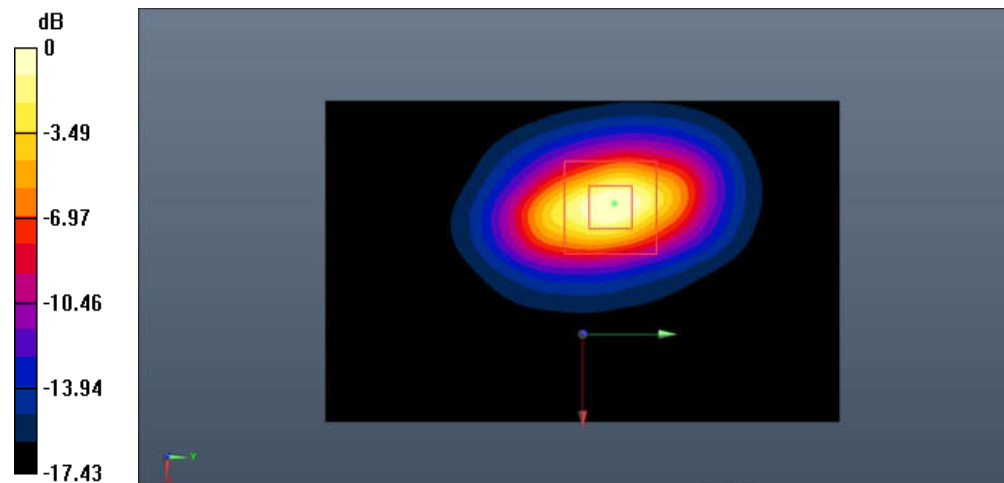
System Check/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 44.42 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 4.27 W/kg

SAR(1 g) = 1.86 W/kg; SAR(10 g) = 0.988 W/kg

Maximum value of SAR (measured) = 2.59 W/kg



0 dB = 2.59 W/kg = 4.13 dB W/kg

Fig.B.6. Validation 1750MHz 50mW

1900MHz

Date: 2025-03-11

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.428 \text{ S/m}$; $\epsilon_r = 38.744$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

System Check/Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 47.58 V/m; Power Drift = 0.09 dB

SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.06 W/kg

Maximum value of SAR (interpolated) = 2.95 W/kg

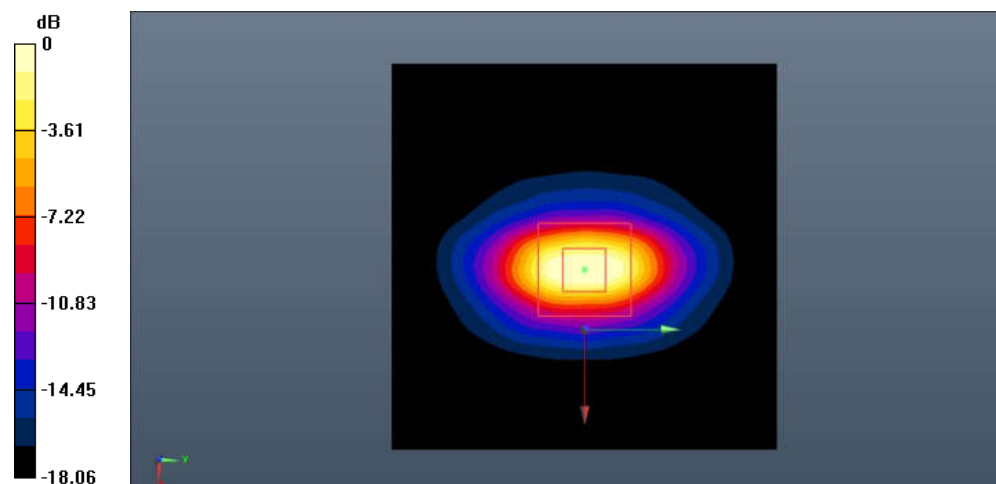
System Check/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 47.58 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 5.08 W/kg

SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.09 W/kg

Maximum value of SAR (measured) = 2.99 W/kg



0 dB = 2.99 W/kg = 4.76 dB W/kg

Fig.B.7. Validation 1900MHz 50mW

1900MHz

Date: 2025-03-20

Electronics: DAE4 Sn1790

Medium: Head 1900MHz

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.395 \text{ S/m}$; $\epsilon_r = 40.633$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 1900 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (8.37, 7.96, 7.80)

System Check/Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 45.72 V/m; Power Drift = -0.10 dB

SAR(1 g) = 1.99 W/kg; SAR(10 g) = 1.05 W/kg

Maximum value of SAR (interpolated) = 2.88 W/kg

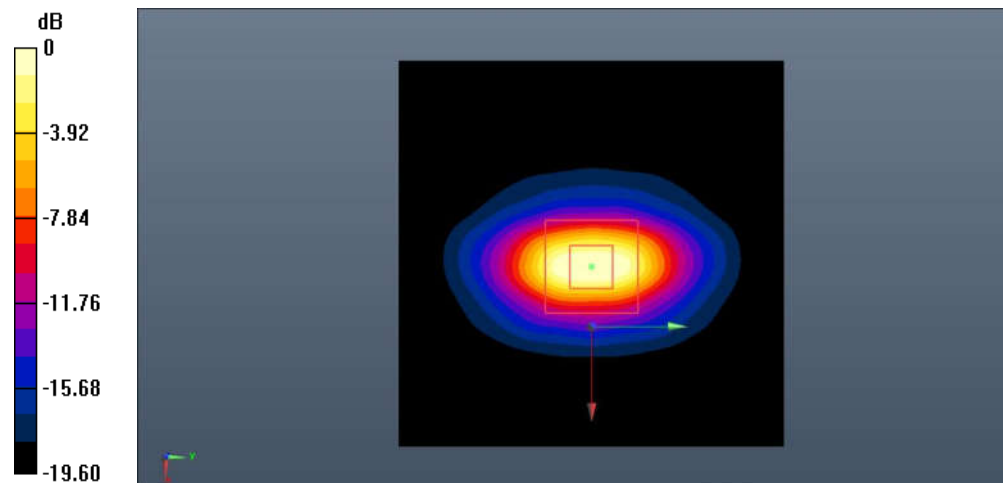
System Check/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 45.72 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 4.64 W/kg

SAR(1 g) = 1.93 W/kg; SAR(10 g) = 1.03 W/kg

Maximum value of SAR (measured) = 2.85 W/kg



0 dB = 2.85 W/kg = 4.55 dB W/kg

Fig.B.8. Validation 1900MHz 50mW

2450MHz

Date: 2025-03-24

Electronics: DAE4 Sn1790

Medium: Head 2450MHz

Medium parameters used: $f = 2450 \text{ MHz}$; $\sigma = 1.816 \text{ S/m}$; $\epsilon_r = 38.221$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 2450 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

System Validation/Area Scan (81x121x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 52.71 V/m; Power Drift = 0.06 dB

SAR(1 g) = 2.60 W/kg; SAR(10 g) = 1.21 W/kg

Maximum value of SAR (interpolated) = 4.39 W/kg

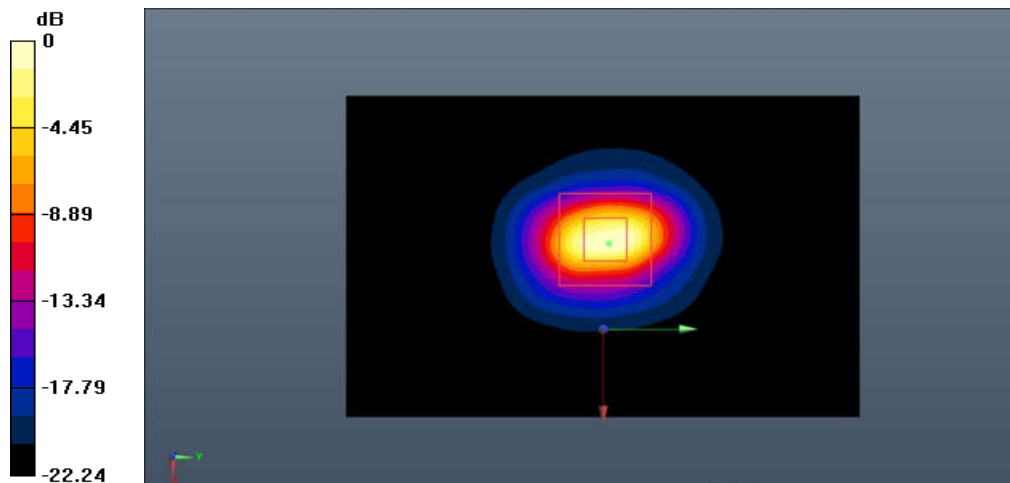
System Validation/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.71 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 6.98 W/kg

SAR(1 g) = 2.68 W/kg; SAR(10 g) = 1.25 W/kg

Maximum value of SAR (measured) = 4.45 W/kg



0 dB = 4.45 W/kg = 6.48 dB W/kg

Fig.B.9. Validation 2450MHz 50mW

2550MHz

Date: 2025-03-03

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2550 \text{ MHz}$; $\sigma = 1.947 \text{ S/m}$; $\epsilon_r = 37.947$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 2550 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

System Check/Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 56.23 V/m; Power Drift = 0.09 dB

SAR(1 g) = 2.80 W/kg; SAR(10 g) = 1.26 W/kg

Maximum value of SAR (interpolated) = 5.78 W/kg

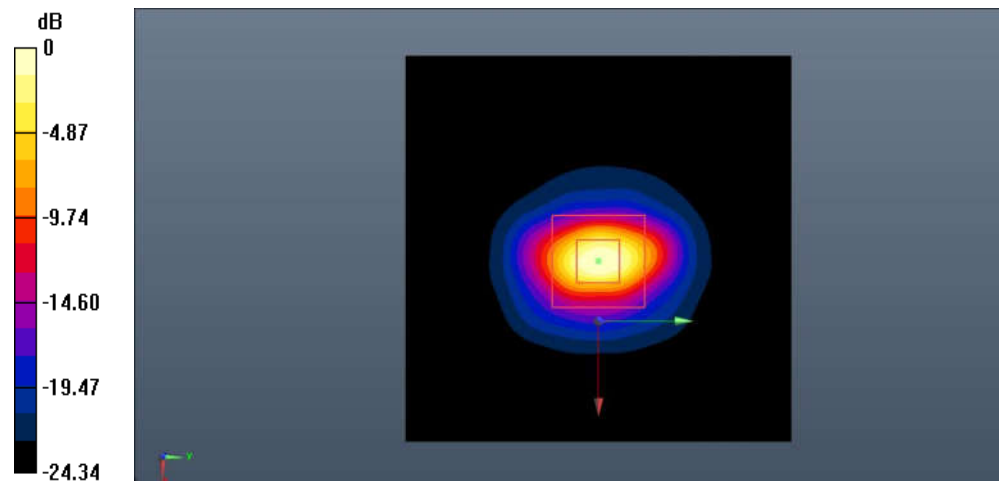
System Check/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.23 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 8.06 W/kg

SAR(1 g) = 2.85 W/kg; SAR(10 g) = 1.27 W/kg

Maximum value of SAR (measured) = 5.83 W/kg



0 dB = 5.83 W/kg = 7.66 dB W/kg

Fig.B.10. Validation 2550MHz 50mW

2550MHz

Date: 2025-03-16

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2550 \text{ MHz}$; $\sigma = 1.944 \text{ S/m}$; $\epsilon_r = 38.722$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 2550 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

System Check/Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 56.69 V/m; Power Drift = -0.02 dB

SAR(1 g) = 2.90 W/kg; SAR(10 g) = 1.29 W/kg

Maximum value of SAR (interpolated) = 5.88 W/kg

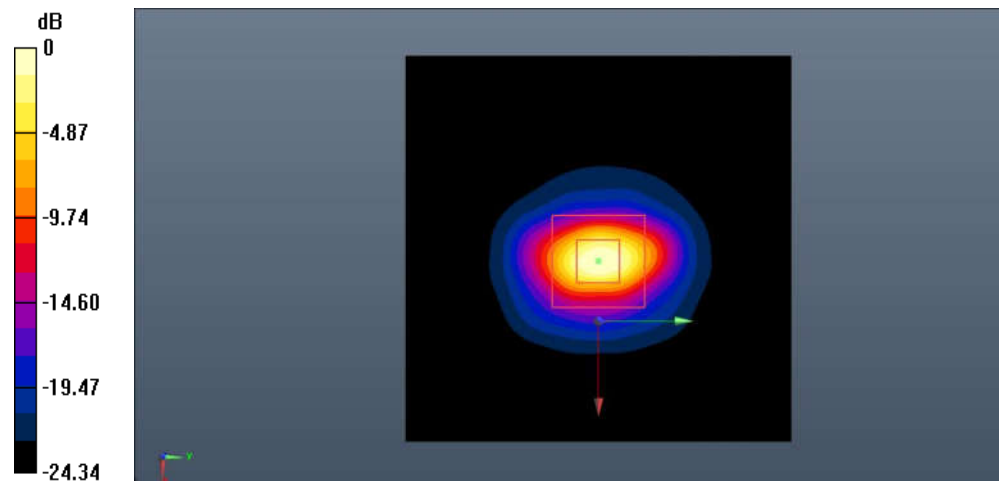
System Check/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 56.69 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 8.13 W/kg

SAR(1 g) = 2.84 W/kg; SAR(10 g) = 1.28 W/kg

Maximum value of SAR (measured) = 5.86 W/kg



0 dB = 5.86 W/kg = 7.68 dB W/kg

Fig.B.11. Validation 2550MHz 50mW

2550MHz

Date: 2025-04-02

Electronics: DAE4 Sn1790

Medium: Head 2550MHz

Medium parameters used: $f = 2550 \text{ MHz}$; $\sigma = 1.883 \text{ S/m}$; $\epsilon_r = 39.389$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 2550 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (7.87, 7.49, 7.34)

System Check/Area Scan (91x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 55.59 V/m; Power Drift = -0.17 dB

SAR(1 g) = 2.73 W/kg; SAR(10 g) = 1.25 W/kg

Maximum value of SAR (interpolated) = 5.68 W/kg

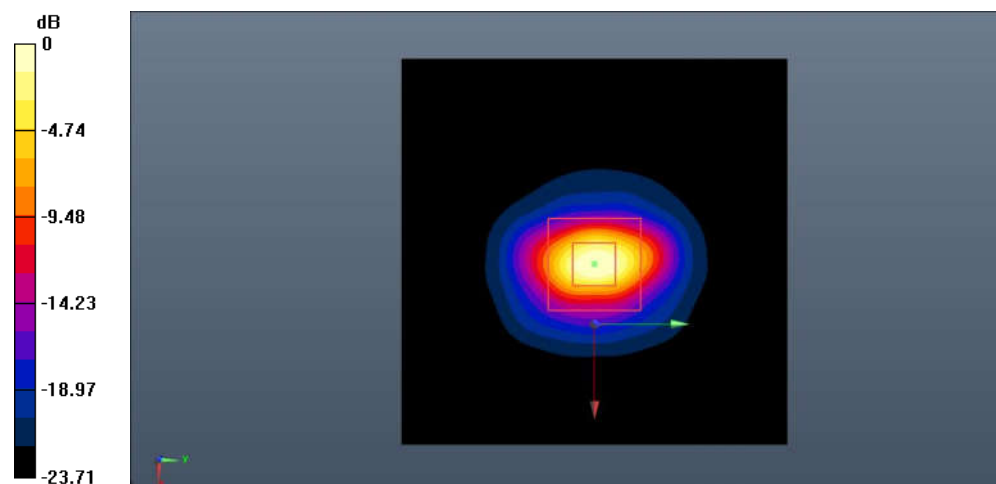
System Check/Zoom Scan (7x7x7)/Cube0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.59 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 7.74 W/kg

SAR(1 g) = 2.66 W/kg; SAR(10 g) = 1.22 W/kg

Maximum value of SAR (measured) = 5.62 W/kg



0 dB = 5.62 W/kg = 7.50 dB W/kg

Fig.B.12. Validation 2550MHz 50mW

5250MHz

Date: 2025-03-17

Electronics: DAE4 Sn1790

Medium: Head 5250MHz

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.651 \text{ S/m}$; $\epsilon_r = 36.685$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (6.03, 5.73, 5.62)

System Validation/Area Scan (61x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 34.26 V/m; Power Drift = -0.08 dB

SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.15 W/kg

Maximum value of SAR (interpolated) = 9.97 W/kg

System Validation/Zoom Scan (8x8x21)/Cube0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$,

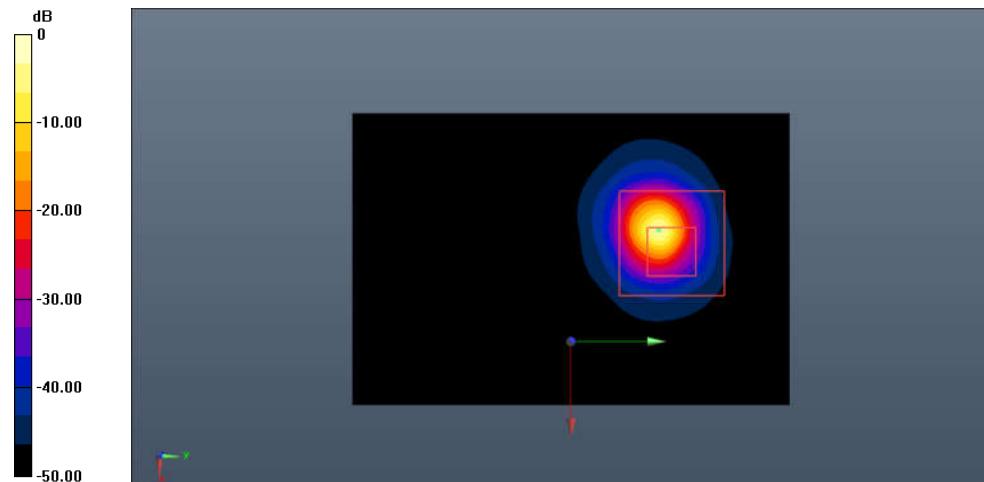
$dz=1.4\text{mm}$

Reference Value = 34.26 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 17.0 W/kg

SAR(1 g) = 3.90 W/kg; SAR(10 g) = 1.12 W/kg

Maximum value of SAR (measured) = 9.93 W/kg



0 dB = 9.93 W/kg = 9.97 dB W/kg

Fig.B.13. Validation 5250MHz 50mW

5250MHz

Date: 2025-03-26

Electronics: DAE4 Sn1790

Medium: Head 5250MHz

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.627 \text{ S/m}$; $\epsilon_r = 36.211$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 5250 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (6.03, 5.73, 5.62)

System Validation/Area Scan (61x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 33.78 V/m ; Power Drift = -0.15 dB

SAR(1 g) = 3.91 W/kg ; SAR(10 g) = 1.13 W/kg

Maximum value of SAR (interpolated) = 9.88 W/kg

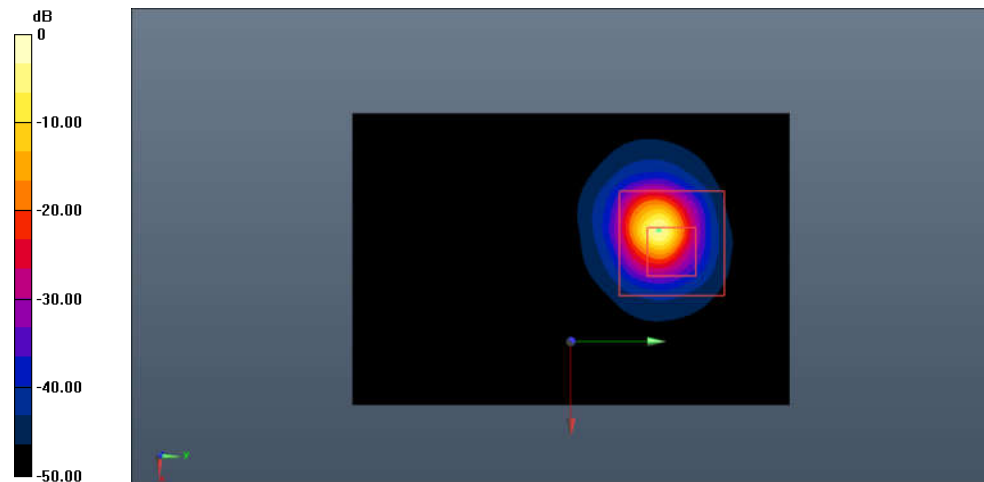
System Validation/Zoom Scan (8x8x21)/Cube0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 33.78 V/m ; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 16.2 W/kg

SAR(1 g) = 3.82 W/kg ; SAR(10 g) = 1.10 W/kg

Maximum value of SAR (measured) = 9.84 W/kg



0 dB = 9.84 W/kg = 9.93 dB W/kg

Fig.B.14. Validation 5250MHz 50mW

5600MHz

Date: 2025-03-18

Electronics: DAE4 Sn1790

Medium: Head 5600MHz

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 5.186 \text{ S/m}$; $\epsilon_r = 34.918$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (5.46, 5.19, 5.09)

System Validation/Area Scan (61x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 38.39 V/m; Power Drift = 0.07 dB

SAR(1 g) = 4.16 W/kg; SAR(10 g) = 1.18 W/kg

Maximum value of SAR (interpolated) = 10.2 W/kg

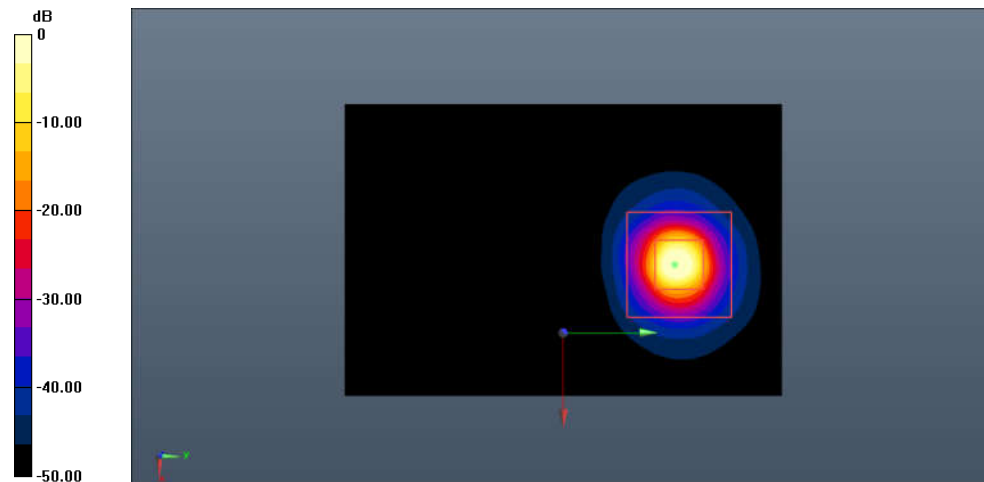
System Validation/Zoom Scan (8x8x21)/Cube0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 38.39 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 4.24 W/kg; SAR(10 g) = 1.20 W/kg

Maximum value of SAR (measured) = 10.5 W/kg



0 dB = 10.5 W/kg = 10.21 dB W/kg

Fig.B.15. Validation 5600MHz 50mW

5600MHz

Date: 2025-03-26

Electronics: DAE4 Sn1790

Medium: Head 5600MHz

Medium parameters used: $f = 5600 \text{ MHz}$; $\sigma = 4.973 \text{ S/m}$; $\epsilon_r = 36.153$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 5600 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (5.46, 5.19, 5.09)

System Validation/Area Scan (61x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 36.45 V/m; Power Drift = -0.11 dB

SAR(1 g) = 4.13 W/kg; SAR(10 g) = 1.19 W/kg

Maximum value of SAR (interpolated) = 9.92 W/kg

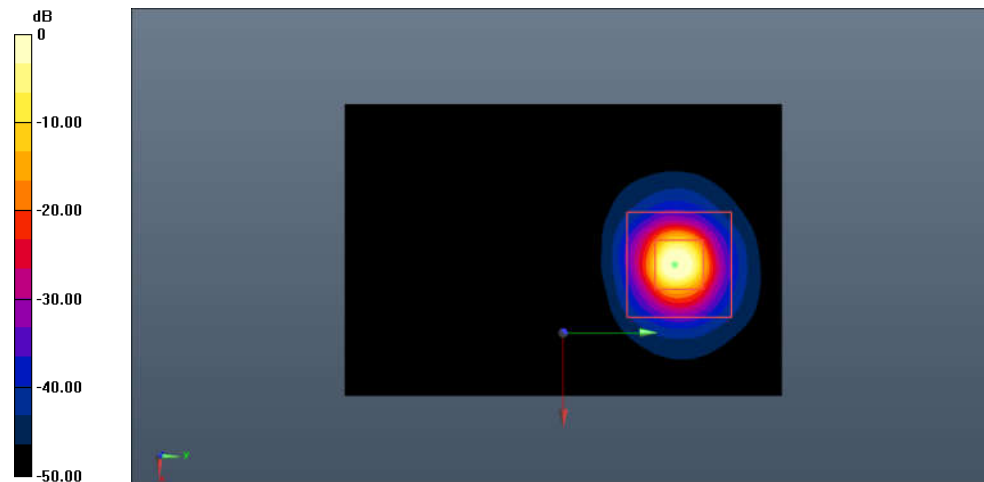
System Validation/Zoom Scan (8x8x21)/Cube0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 36.45 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 4.05 W/kg; SAR(10 g) = 1.17 W/kg

Maximum value of SAR (measured) = 9.88 W/kg



0 dB = 9.88 W/kg = 9.95 dB W/kg

Fig.B.16. Validation 5600MHz 50mW

5750MHz

Date: 2025-03-18

Electronics: DAE4 Sn1790

Medium: Head 5750MHz

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.303 \text{ S/m}$; $\epsilon_r = 34.711$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (5.53, 5.26, 5.15)

System Validation/Area Scan (61x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 35.71 V/m; Power Drift = 0.05 dB

SAR(1 g) = 3.93 W/kg; SAR(10 g) = 1.09 W/kg

Maximum value of SAR (interpolated) = 10.1 W/kg

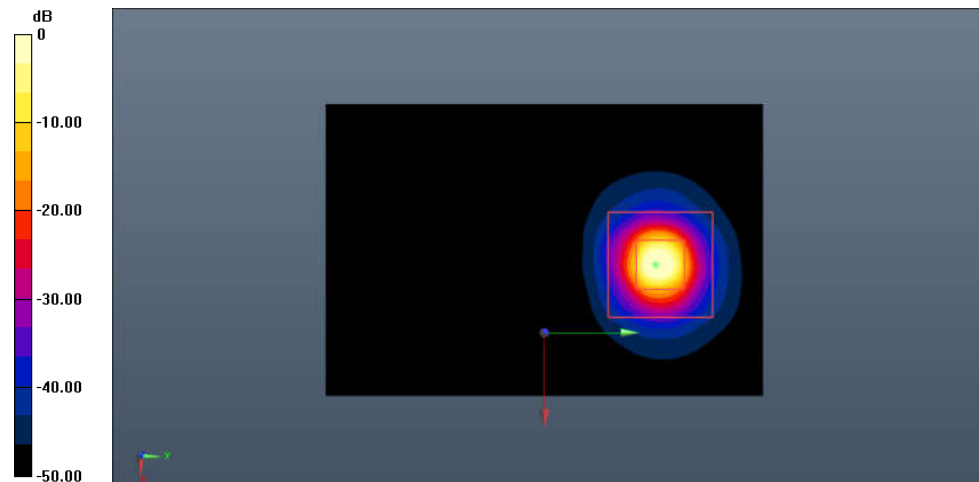
System Validation/Zoom Scan (8x8x21)/Cube0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 35.71 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 4.06 W/kg; SAR(10 g) = 1.12 W/kg

Maximum value of SAR (measured) = 10.3 W/kg



0 dB = 10.3 W/kg = 10.13 dB W/kg

Fig.B.17. Validation 5750MHz 50mW

5750MHz

Date: 2025-03-26

Electronics: DAE4 Sn1790

Medium: Head 5750MHz

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.124 \text{ S/m}$; $\epsilon_r = 35.579$; $\rho = 1000 \text{ kg/m}^3$

Communication System: CW Frequency: 5750 MHz Duty Cycle: 1:1

Probe: EX3DV4 - SN7683 ConvF (5.53, 5.26, 5.15)

System Validation/Area Scan (61x91x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Reference Value = 36.28 V/m; Power Drift = -0.04 dB

SAR(1 g) = 3.89 W/kg; SAR(10 g) = 1.11 W/kg

Maximum value of SAR (interpolated) = 9.71 W/kg

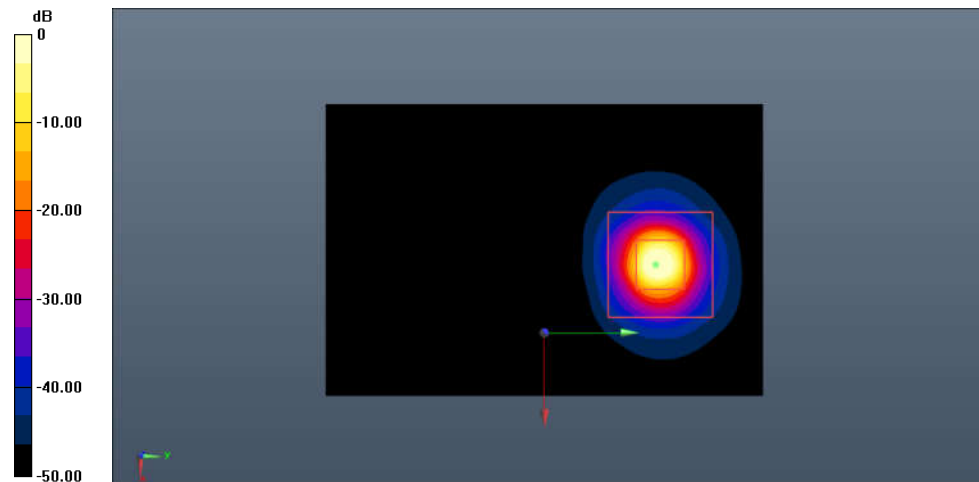
System Validation/Zoom Scan (8x8x21)/Cube0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 36.28 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 3.80 W/kg; SAR(10 g) = 1.08 W/kg

Maximum value of SAR (measured) = 9.66 W/kg



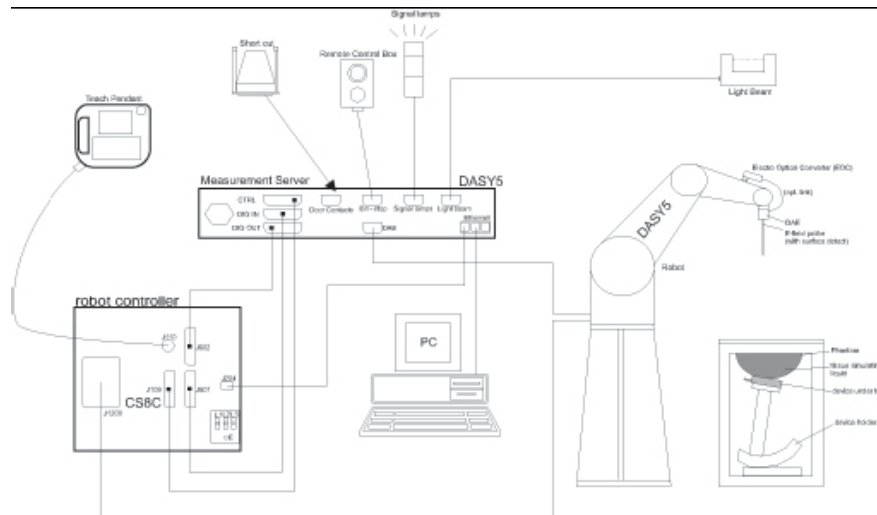
0 dB = 9.66 W/kg = 9.85 dB W/kg

Fig.B.18. Validation 5750MHz 50mW

ANNEX C: SAR Measurement Setup

C.1. Measurement Set-up

DASY5 system for performing compliance tests is illustrated above graphically. This system consists of the following items:



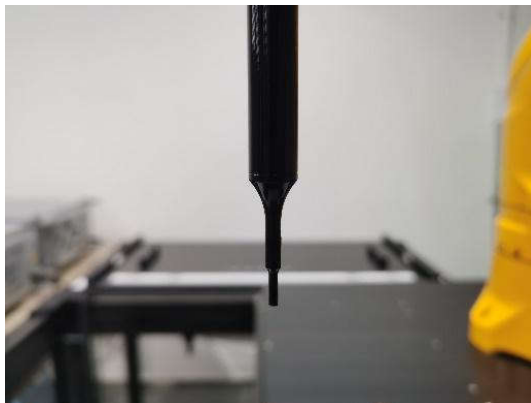
Picture C.1 SAR Lab Test Measurement Set-up

- A standard high precision 6-axis robot (Stäubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as
- warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

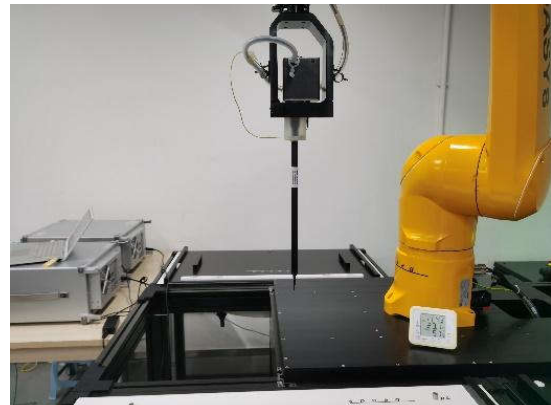
C.2. DASY E-field Probe System

The SAR measurements were conducted with the dosimetric probe designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multifiber line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY5 OR DASY8 software reads the reflection during a software approach and looks for the maximum using 2nd order curve fitting. The approach is stopped at reaching the maximum.

Probe Specifications:	
Model:	EX3DV4
Frequency Range:	10 MHz - 6.0 GHz
Calibration:	In head simulating tissue at Frequencies from 750 up to 5750 MHz
Linearity:	± 0.2 dB (30 MHz to 6 GHz)
Dynamic Range:	10 mW/kg - 100 W/kg
Probe Length:	337 mm
Probe Tip Length:	20 mm
Body Diameter:	12 mm
Tip Diameter:	2.5 mm
Tip-Center:	1 mm
Application:	SAR Dosimetry Testing / Compliance tests of mobile phones / Dosimetry in strong gradient fields



Picture C.2: Near-field Probe



Picture C.3: E-field Probe



C.3. E-field Probe Calibration

Each E-Probe/Probe Amplifier combination has unique calibration parameters. A TEM cell calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an RF Signal generator, TEM cell, and RF Power Meter.

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is then rotated 360 degrees until the three channels show the maximum reading. The power density readings equate to 1 mW/cm².

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:

Δt = Exposure time (30 seconds),

C = Heat capacity of tissue (brain or muscle),

ΔT = Temperature increase due to RF exposure.

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

Where:

σ = Simulated tissue conductivity,

ρ = Tissue density (kg/m³).

C.4. Other Test Equipment

C.4.1. Data Acquisition Electronics (DAE)

The data acquisition electronics consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Picture C.4: DAE

C.4.2. Robot

The SPEAG DASY system uses the high precision robots (DASY5: RX90L) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchron motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)



Picture C.5: DASY 5



Picture C.6: DASY 8

C.4.3. Measurement Server

The Measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5:128MB), RAM (DASY5:128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.



Picture C.7: Server for DASY 5



Picture C.8: Server for DASY 8

C.4.4. Device Holder for Phantom

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5mm distance, a positioning uncertainty of $\pm 0.5\text{mm}$ would produce a SAR uncertainty of $\pm 20\%$. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

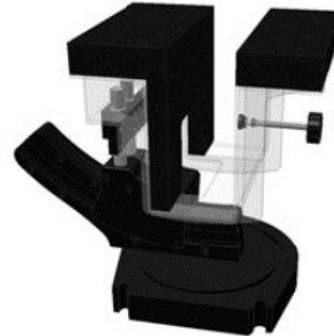
The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

<Laptop Extension Kit>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the Mounting Device in place of the phone positioner. The extension is fully compatible with the Twin-SAM and ELI phantoms.



Picture C.9: Device Holder



Picture C.10: Laptop Extension Kit

The SAM Twin Phantom V4.0 is constructed of a fiberglass shell integrated in a table. The shape of the shell is based on data from an anatomical study designed to Represent the 90th percentile of the population. The phantom enables the dissymmetric evaluation of SAR for both left and right handed handset usage, as well as body-worn usage using the flat phantom region. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. The shell phantom has a 2mm shell thickness (except the ear region where shell thickness increases to 6 mm).

Shell Thickness: 2 ± 0.2 mm
 Filling Volume: Approx. 25 liters
 Dimensions: 810 x 1000 x 500 mm (H x L x W)
 Available: Special

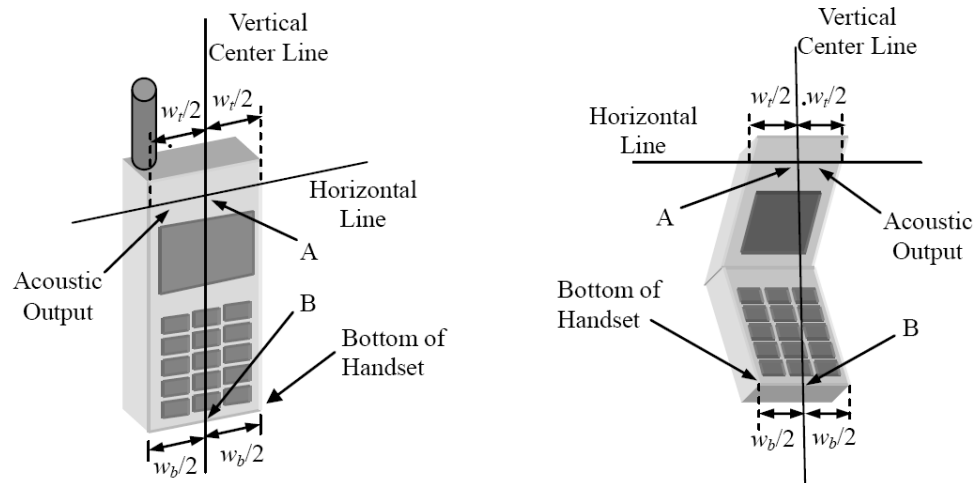


Picture C.11: SAM Twin Phantom

ANNEX D: Position of the wireless device in relation to the phantom

D.1. General considerations

This standard specifies two handset test positions against the head phantom – the “cheek” position and the “tilt” position.



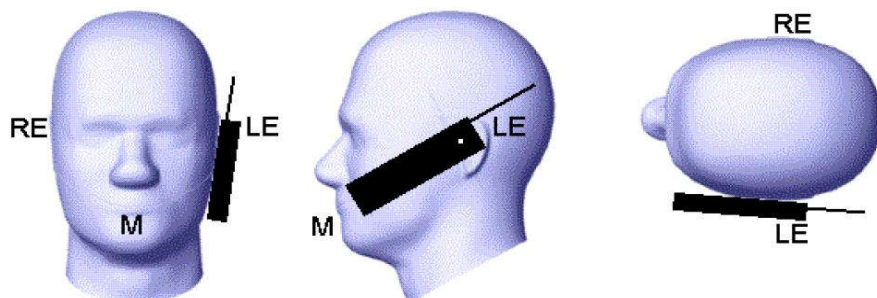
w_t Width of the handset at the level of the acoustic

w_b Width of the bottom of the handset

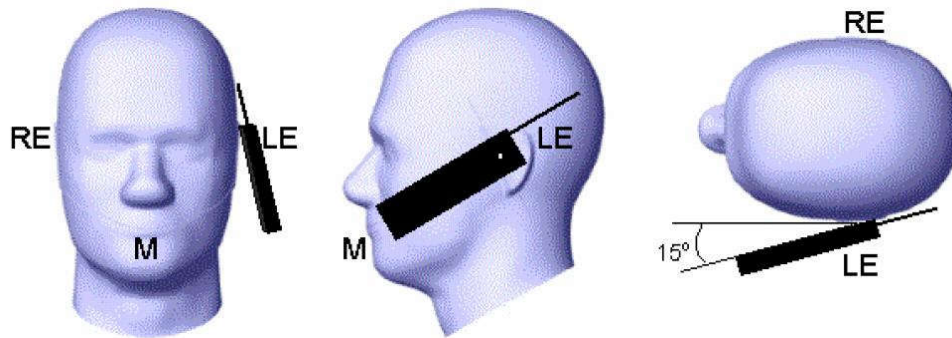
A Midpoint of the width w_t of the handset at the level of the acoustic output

B Midpoint of the width w_b of the bottom of the handset

Picture D.1-a Typical “fixed” case handset **Picture D.1-b Typical “clam-shell” case handset**



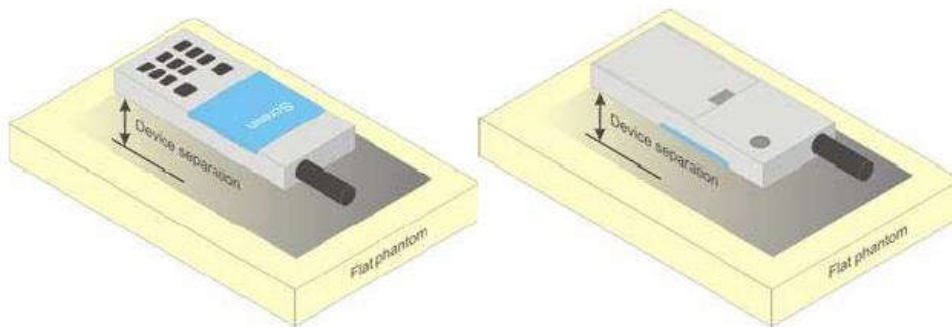
Picture D.2 Cheek position of the wireless device on the left side of SAM



Picture D.3 Tilt position of the wireless device on the left side of SAM

D.2. Body-worn device

A typical example of a body-worn device is a mobile phone, wireless enabled PDA or other battery operated wireless device with the ability to transmit while mounted on a person's body using a carry accessory approved by the wireless device manufacturer.

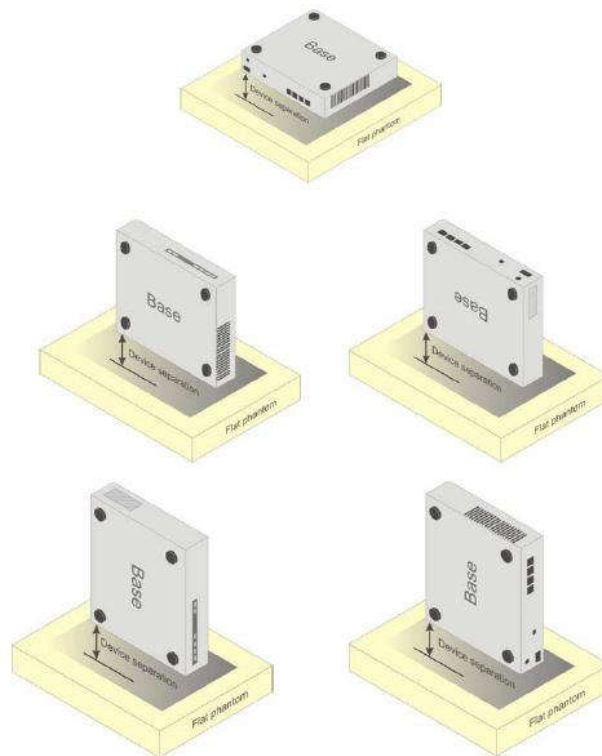


Picture D.4 Test positions for body-worn devices

D.3. Desktop device

A typical example of a desktop device is a wireless enabled desktop computer placed on a table or desk when used.

The DUT shall be positioned at the distance and in the orientation to the phantom that corresponds to the intended use as specified by the manufacturer in the user instructions. For devices that employ an external antenna with variable positions, tests shall be performed for all antenna positions specified. Picture 8.5 show positions for desktop device SAR tests. If the intended use is not specified, the device shall be tested directly against the flat phantom.



Picture D.5 Test positions for desktop devices

D.4. DUT Setup Photos



Picture D.6 Specific Absorption Rate Test Layout

ANNEX E: Equivalent Media Recipes

The liquid used for the frequency range of 700-6000 MHz consisted of water, sugar, salt, preventol, glycol monobutyl and Cellulose. The liquid has been previously proven to be suited for worst-case. The Table E.1 shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209.

Table E.1: Composition of the Tissue Equivalent Matter

Frequency (MHz)	835	1750	1900	2450	2600	5200	5800
Water	41.45	55.242	55.242	58.79	58.79	65.53	66.10
Sugar	56.0	/	/	/	/	/	/
Salt	1.45	0.306	0.306	0.06	0.06		
Preventol	0.1	/	/	/	/	17.24	16.95
Cellulose	1.0	/	/	/	/	17.24	16.95
Glycol Monobutyl	/	44.452	44.452	41.15	41.15	/	/
Diethyleneglycol monohexylether	/	/	/	/	/	/	/
Triton X-100	/	/	/	/	/	/	/
Dielectric Parameters Target Value	$\epsilon=41.5$ $\sigma=0.90$	$\epsilon=40.08$ $\sigma=1.37$	$\epsilon=40.0$ $\sigma=1.40$	$\epsilon=39.20$ $\sigma=1.80$	$\epsilon=39.01$ $\sigma=1.96$	$\epsilon=35.99$ $\sigma=4.66$	$\epsilon=35.30$ $\sigma=5.27$

Note: There is a little adjustment respectively for 750, 5300 and 5600, based on the recipe of closest frequency in table E.1



ANNEX F: System Validation

The SAR system must be validated against its performance specifications before it is deployed. When SAR probes, system components or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such components.

Table F.1: System Validation

Probe SN.	Liquid name (MHz)	Validation date	Frequency point	CW Validation	Modulation Signal Validation		
					Modulation Type	Duty Factor	PAR
7683	Head 750	2024-08-08	750MHz	Pass	N/A	N/A	N/A
7683	Head 835	2024-08-08	835MHz	Pass	GMSK	Pass	N/A
7683	Head 1750	2024-08-08	1750MHz	Pass	N/A	N/A	N/A
7683	Head 1900	2024-08-08	1900MHz	Pass	GMSK	Pass	N/A
7683	Head 2450	2024-08-20	2450MHz	Pass	OFDM/TDD	Pass	Pass
7683	Head 2550	2024-08-20	2550MHz	Pass	TDD	Pass	N/A
7683	Head 3500	2024-08-19	3500MHz	Pass	TDD	Pass	N/A
7683	Head 3700	2024-08-19	3700MHz	Pass	TDD	Pass	N/A
7683	Head 3900	2024-08-19	3900MHz	Pass	TDD	Pass	N/A
7683	Head 5250	2024-08-21	5250MHz	Pass	OFDM	N/A	Pass
7683	Head 5600	2024-08-21	5600MHz	Pass	OFDM	N/A	Pass
7683	Head 5750	2024-08-21	5750MHz	Pass	OFDM	N/A	Pass



No. 25T04N000127-011-SAR

ANNEX G: DAE Calibration Certificate

DAE4 - SN:1790 (2024-06-06)



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2117
E-mail: emf@caict.ac.cn <http://www.caict.ac.cn>



中国认可
国际互认
校准
CALIBRATION
CNAS L0570

Client : SAICT

Certificate No: 24J02Z000295

CALIBRATION CERTIFICATE

Object DAE4 - SN: 1790

Calibration Procedure(s) FF-Z11-002-01
Calibration Procedure for the Data Acquisition Electronics (DAEx)

Calibration date: June 06, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	12-Jun-23 (CTTL, No.J23X05436)	Jun-24

	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	
Reviewed by:	Lin Jun	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	

Issued: June 09, 2024

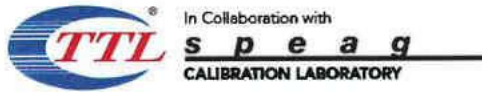
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: 24J02Z000295

Page 1 of 3



No. 25T04N000127-011-SAR



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2117
E-mail: ernf@caict.ac.cn <http://www.caict.ac.cn>

Glossary:

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.



No. 25T04N000127-011-SAR



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2117
E-mail: emf@caict.ac.cn <http://www.caict.ac.cn>

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V, full range = -100...+300 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.649 $\pm$ 0.15% (k=2)	404.367 $\pm$ 0.15% (k=2)	404.501 $\pm$ 0.15% (k=2)
Low Range	4.00172 $\pm$ 0.7% (k=2)	3.99527 $\pm$ 0.7% (k=2)	3.98609 $\pm$ 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	305.5° $\pm$ 1 °
---	------------------



No. 25T04N000127-011-SAR

ANNEX H: Probe Calibration Certificate

EX3DV4 - SN:7683 (2024-07-03)

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client
SAICT
Shenzhen

Certificate No. **EX-7683_Jul24**

CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7683**

Calibration procedure(s) **QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,
QA CAL-25.v8
Calibration procedure for dosimetric E-field probes**

Calibration date **July 03, 2024**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3) °C and humidity < 70%.
Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
Power sensor NRP-Z91	SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
OCP DAK-3.5 (weighted)	SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
OCP DAK-12	SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
Reference 20 dB Attenuator	SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
DAE4	SN: 660	23-Feb-24 (No. DAE4-660_Feb24)	Feb-25
Reference Probe EX3DV4	SN: 7349	03-Jun-24 (No. EX3-7349_Jun24)	Jun-25

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
Power sensor E4412A	SN: D00110210	06-Apr-16 (in house check Jun-24)	In house check: Jun-26
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-24)	In house check: Jun-26
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24

	Name	Function	Signature
Calibrated by	Joanna Lleshaj	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	

Issued: July 03, 2024

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Certificate No: EX-7683_Jul24

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Glossary

TSL	tissue simulating liquid
NORM _{x,y,z}	sensitivity in free space
ConvF	sensitivity in TSL / NORM _{x,y,z}
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORM_{x,y,z}**: Assessed for E-field polarization $\theta = 0$ ($f \leq 900$ MHz in TEM-cell; $f > 1800$ MHz: R22 waveguide). NORM_{x,y,z} are only intermediate values, i.e., the uncertainties of NORM_{x,y,z} does not affect the E^2 -field uncertainty inside TSL (see below ConvF).
- NORM(f)_{x,y,z} = NORM_{x,y,z} * frequency_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP_{x,y,z}**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A_{x,y,z}; B_{x,y,z}; C_{x,y,z}; D_{x,y,z}; VR_{x,y,z}**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for $f \leq 800$ MHz) and inside waveguide using analytical field distributions based on power measurements for $f > 800$ MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM_{x,y,z} * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical Isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM_x (no uncertainty required).



EX3DV4 - SN:7683

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Parameters of Probe: EX3DV4 - SN:7683**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.62	0.63	0.63	$\pm 10.1\%$
DCP (mV) ^B	103.2	103.9	103.2	$\pm 4.7\%$

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	120.4	$\pm 1.4\%$	$\pm 4.7\%$
		Y	0.00	0.00	1.00		140.6		
		Z	0.00	0.00	1.00		119.4		
10352	Pulse Waveform (200Hz, 10%)	X	1.52	60.67	6.55	10.00	60.0	$\pm 2.6\%$	$\pm 9.6\%$
		Y	1.53	60.79	6.54		60.0		
		Z	2.00	62.00	7.00		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.80	60.00	5.10	6.99	80.0	$\pm 2.3\%$	$\pm 9.6\%$
		Y	10.00	72.00	9.00		80.0		
		Z	0.80	60.00	4.99		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	0.26	143.64	0.03	3.98	95.0	$\pm 2.6\%$	$\pm 9.6\%$
		Y	52.00	78.00	9.00		95.0		
		Z	0.19	137.24	0.48		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	10.14	157.74	16.87	2.22	120.0	$\pm 1.6\%$	$\pm 9.6\%$
		Y	12.08	151.82	9.48		120.0		
		Z	10.53	156.21	19.40		120.0		
10387	QPSK Waveform, 1 MHz	X	0.62	63.82	12.61	1.00	150.0	$\pm 4.5\%$	$\pm 9.6\%$
		Y	0.70	63.58	11.65		150.0		
		Z	0.58	62.17	11.23		150.0		
10388	QPSK Waveform, 10 MHz	X	1.39	65.66	14.01	0.00	150.0	$\pm 1.4\%$	$\pm 9.6\%$
		Y	1.40	64.71	13.34		150.0		
		Z	1.31	64.28	13.14		150.0		
10396	64-QAM Waveform, 100 kHz	X	1.61	63.63	15.52	3.01	150.0	$\pm 1.1\%$	$\pm 9.6\%$
		Y	1.73	64.50	15.77		150.0		
		Z	1.59	63.24	15.16		150.0		
10399	64-QAM Waveform, 40 MHz	X	2.86	66.09	15.03	0.00	150.0	$\pm 1.9\%$	$\pm 9.6\%$
		Y	2.90	65.80	14.74		150.0		
		Z	2.80	65.50	14.61		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	3.85	65.69	15.17	0.00	150.0	$\pm 3.5\%$	$\pm 9.6\%$
		Y	4.00	65.56	15.06		150.0		
		Z	4.03	66.09	15.30		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X,Y,Z do not affect the E^2 -field uncertainty inside TSL (see Pages 5 and 6).^B Linearization parameter uncertainty for maximum specified field strength.^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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Parameters of Probe: EX3DV4 - SN:7683

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms V ⁻²	T2 ms V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	T6
x	10.8	77.56	33.12	2.58	0.00	4.90	0.27	0.00	1.00
y	13.0	94.75	33.73	3.67	0.00	4.92	0.51	0.00	1.00
z	11.7	84.47	33.28	2.66	0.00	4.90	0.28	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	70.6°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3–4 mm for an Area Scan job.



EX3DV4 - SN:7683

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Parameters of Probe: EX3DV4 - SN:7683**Calibration Parameter Determined in Head Tissue Simulating Media**

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (k = 2)
13	55.0	0.75	18.80	15.39	15.39	0.00	1.25	±13.3%
750	41.9	0.89	10.40	9.90	9.70	0.34	1.27	±11.0%
900	41.5	0.97	9.93	9.45	9.26	0.34	1.27	±11.0%
1640	40.2	1.31	8.55	8.13	7.97	0.35	1.27	±11.0%
1750	40.1	1.37	8.60	8.19	8.02	0.35	1.27	±11.0%
1900	40.0	1.40	8.37	7.96	7.80	0.35	1.27	±11.0%
2100	39.8	1.49	8.41	8.01	7.84	0.36	1.27	±11.0%
2300	39.5	1.67	8.14	7.75	7.59	0.36	1.27	±11.0%
2450	39.2	1.80	7.87	7.49	7.34	0.36	1.27	±11.0%
2600	39.0	1.96	7.93	7.55	7.39	0.36	1.27	±11.0%
3300	38.2	2.71	7.14	6.80	6.66	0.37	1.27	±13.1%
3500	37.9	2.91	7.20	6.85	6.71	0.37	1.27	±13.1%
3700	37.7	3.12	7.08	6.74	6.60	0.37	1.27	±13.1%
3900	37.5	3.32	6.96	6.62	6.49	0.38	1.27	±13.1%
4100	37.2	3.53	6.87	6.54	6.40	0.38	1.27	±13.1%
4400	36.9	3.84	6.68	6.35	6.22	0.38	1.27	±13.1%
4600	36.7	4.04	6.74	6.41	6.28	0.38	1.27	±13.1%
4800	36.4	4.25	6.61	6.29	6.16	0.39	1.27	±13.1%
4950	36.3	4.40	6.59	6.27	6.14	0.37	1.27	±13.1%
5250	35.9	4.71	6.03	5.73	5.62	0.34	1.27	±13.1%
5600	35.5	5.07	5.46	5.19	5.09	0.30	1.27	±13.1%
5800	35.3	5.27	5.53	5.26	5.15	0.28	1.27	±13.1%

^C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. Therefore, the uncertainty stated is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.



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Parameters of Probe: EX3DV4 - SN:7683**Calibration Parameter Determined in Head Tissue Simulating Media**

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (k = 2)
6500	34.5	6.07	5.99	5.70	5.58	0.20	1.27	±18.6%

^C Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

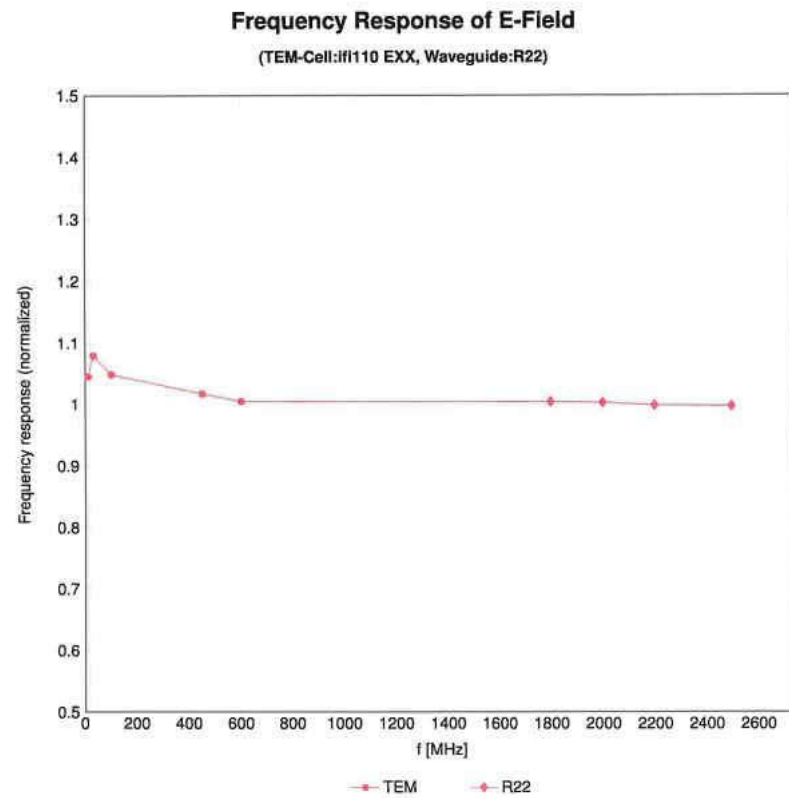
^F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ϵ and σ by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

^H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. Therefore, the uncertainty stated is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

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Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

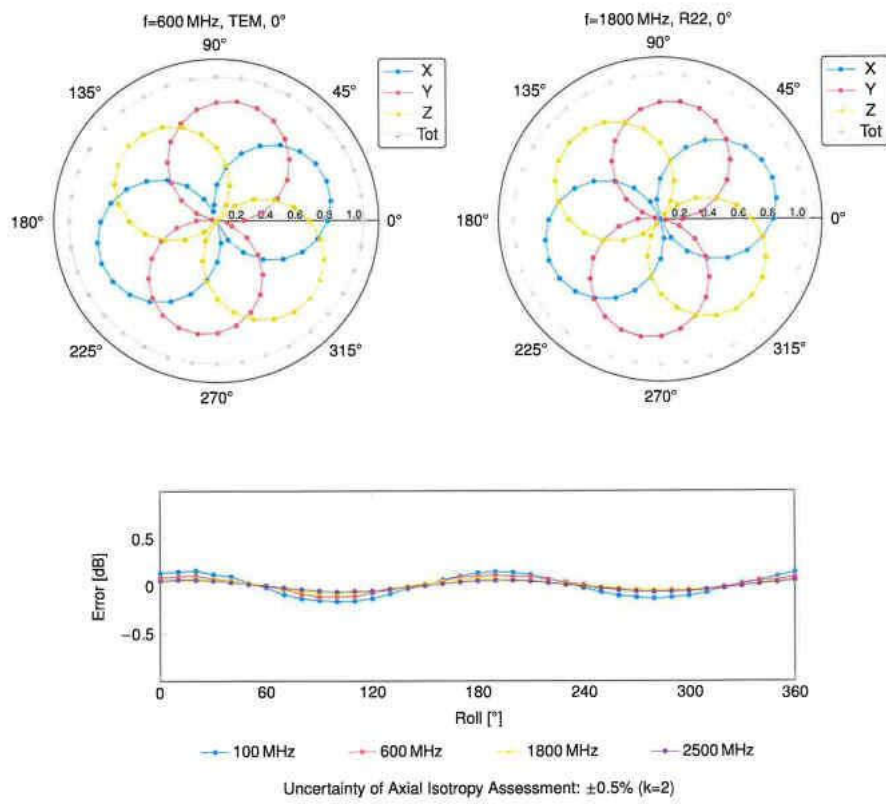


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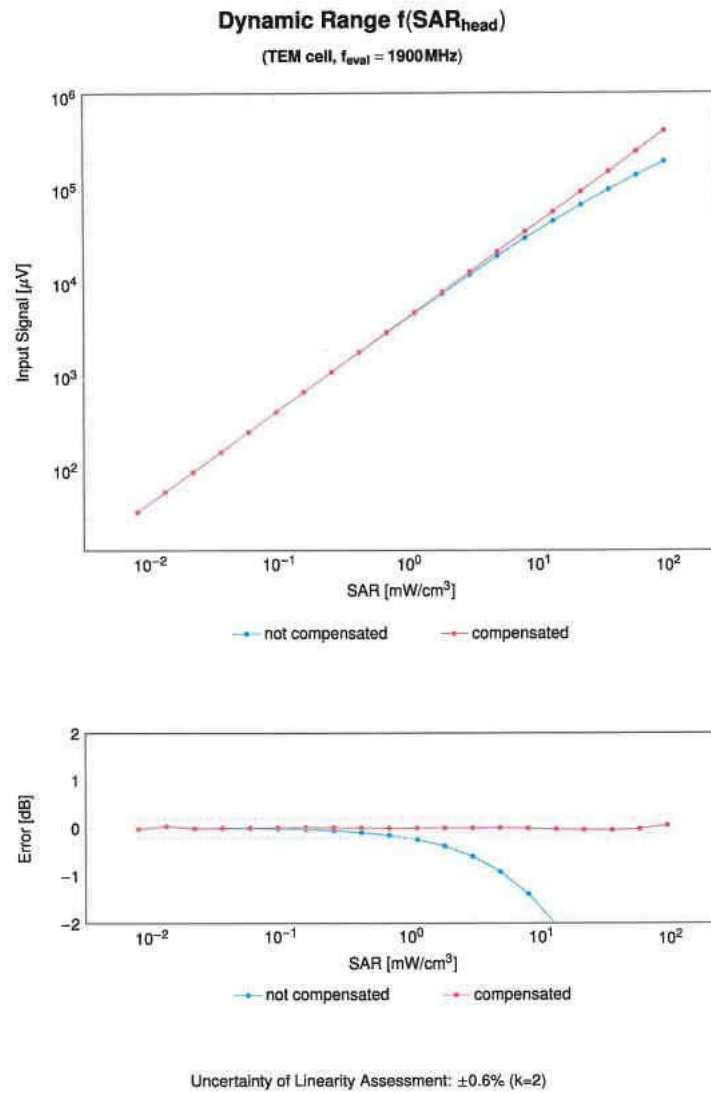
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Receiving Pattern (ϕ), $\theta = 0^\circ$



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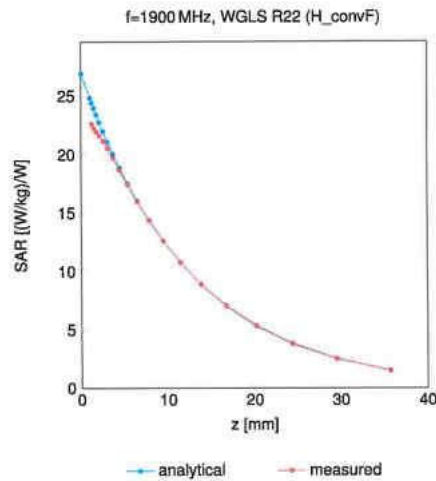
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Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), f = 900 MHz
