FCC SAR REPORT

Report No.:	JYTSZ-R14-2500124
Applicant:	INFINIX MOBILITY LIMITED
Address of Applicant:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Equipment Under Test (EUT)	
Product Name:	Tablet
Model No.:	X1201
Trade mark	Infinix
FCC ID:	2AIZN-X1201
Applicable standards:	FCC 47 CFR Part 2.1093
Date of Test:	27 Jun., 2025 ~ 12 Jul., 2025
Test Result:	Maximum Reported 1-g SAR (W/kg) Body: 1.151

Project by:	Eric Wang ***Project Engineer***	***Date:***	*29 Jul., 2025*
Reviewed by:	Peter Chang ***Senior Engineer***	***Date:***	*29 Jul., 2025*
Approved by:	Jason Wei ***Manager***	***Date:***	*29 Jul., 2025*

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	*29 Jul., 2025*	*Original*

3 Contents

1 COVER PAGE 1
2 VERSION 2
3 CONTENTS 3
4 SAR RESULTS SUMMARY 5
5 GENERAL INFORMATION 6
5.1 CLIENT INFORMATION 6
5.2 GENERAL DESCRIPTION OF EUT 6
5.3 MAXIMUM RF OUTPUT POWER 8
5.4 ENVIRONMENT OF TEST SITE 10
5.5 TEST SAMPLE PLAN 10
5.6 TEST LOCATION 10
6 INTRODUCTION 11
6.1 INTRODUCTION 11
6.2 SAR DEFINITION 11
7 RF EXPOSURE LIMITS 12
7.1 UNCONTROLLED ENVIRONMENT 12
7.2 CONTROLLED ENVIRONMENT 12
7.3 RF EXPOSURE LIMITS 12
8 SAR MEASUREMENT SYSTEM 13
8.1 E-FIELD PROBE 14
8.2 DATA ACQUISITION ELECTRONICS (DAE) 14
8.3 ROBOT 15
8.4 MEASUREMENT SERVER 15
8.5 LIGHT BEAM UNIT 15
8.6 PHANTOM 16
8.7 DEVICE HOLDER 17
8.8 DATA STORAGE AND EVALUATION 18
8.9 TEST EQUIPMENT LIST 20
9 TISSUE SIMULATING LIQUIDS 21
10 SAR SYSTEM VERIFICATION 23
11 EUT TESTING POSITION 25
11.1 BODY WORN ACCESSORY CONFIGURATIONS 25
12 MEASUREMENT PROCEDURES 26
12.1 SPATIAL PEAK SAR EVALUATION 26
12.2 POWER REFERENCE MEASUREMENT 27
12.3 AREA & ZOOM SCAN PROCEDURES 27
12.4 VOLUME SCAN PROCEDURES 28
12.5 SAR AVERAGED METHODS 28
12.6 POWER DRIFT MONITORING 28
13 CONDUCTED RF OUTPUT POWER 29
13.1 GSM CONDUCTED POWER 29
13.2 WCDMA CONDUCTED POWER 31
13.3 LTE CONDUCTED POWER 34
13.4 WLAN 2.4 GHZ BAND CONDUCTED POWER 90
13.5 WLAN 5.2GHZ BAND CONDUCTED POWER 91
13.6 WLAN 5.3GHZ BAND CONDUCTED POWER 92
13.7 WLAN 5.6GHZ BAND CONDUCTED POWER 93
13.8 WLAN 5.8GHZ BAND CONDUCTED POWER 94
13.9 BLUETOOTH CONDUCTED POWER 95
14 EXPOSURE POSITIONS CONSIDERATION 96
14.1 EUT ANTENNA LOCATIONS 96
14.2 TEST POSITIONS CONSIDERATION 97
15 SAR TEST RESULTS SUMMARY 99
15.1 STANDALONE BODY SAR 99

15.2 REPEATED SAR MEASUREMENT 105
15.3 MULTI-BAND SIMULTANEOUS TRANSMISSION CONSIDERATIONS 106
15.4 SAR SIMULTANEOUS TRANSMISSION ANALYSIS 107
15.5 MEASUREMENT UNCERTAINTY 108
15.6 MEASUREMENT CONCLUSION 109
16 REFERENCE 110
APPENDIX A: PLOTS OF SAR SYSTEM CHECK 111
APPENDIX B: PLOTS OF SAR TEST DATA 122

4 SAR Results Summary

The maximum results of Specific Absorption Rate (SAR) found during test as below:

<Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported 1-g SAR (W/kg)
Body (0 mm Gap)	GSM 850	0.964	PCB	1.151
	PCS 1900	0.986		
	WCDMA Band II	1.108		
	WCDMA Band IV	1.151		
	WCDMA Band V	1.090		
	LTE Band 2	1.102		
	LTE Band 4	0.955		
	LTE Band 5	1.053		
	LTE Band 7	1.135		
	LTE Band 12	0.520		
	LTE Band 13	0.938		
	LTE Band 17	1.009		
	LTE Band 25	0.944		
	LTE Band 26	0.707		
	LTE Band 38	0.983		
	LTE Band 41	0.972		
	LTE Band 66	0.731		
	WLAN 2.4GHz	0.343	DTS	
	WLAN 5.2 GHz	0.316	NII	
	WLAN 5.3 GHz	0.347		
	WLAN 5.6 GHz	0.292		
	WLAN 5.8 GHz	0.391		
	Bluetooth	0.061	DSS	

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Reported 1-g SAR (W/kg)	Equipment Class	Highest Reported Simultaneous Transmission 1-g SAR (W/kg)
Back	WCDMA Band V	1.090	PCB	1.433
	WLAN 2.4 GHz	0.343	DTS	

Note:

1. The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r03, and scalar SAR summation of all possible simultaneous transmission scenarios are < 1.6W/kg.
2. This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528: 2013.

5 General Information

5.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

5.2 General Description of EUT

Product Name:	Tablet			
Model No.:	X1201			
Category of device	Portable device			
Operation Frequency:	GSM:	GSM850: 824.2~848.8 MHz	PCS 1900: 1850.2~1909.8 MHz	
	WCDMA:	Band II: 1852.4~1907.6 MHz	Band V: 826.4~846.6 MHz	
		Band IV: 1712.4~1752.6 MHz		
	LTE:	Band 2:1850MHz~1910MHz	Band 4:1710MHz~1755MHz	
		Band 5: 824MHz~849MHz	Band 7: 2500MHz~2570MHz	
		Band 12: 698MHz~716MHz	Band 13: 777MHz~787MHz	
		Band 17: 704MHz~716MHz	Band 25 : 1850MHz-1915MHz	
		Band 26:814MHz~849MHz	Band 38: 2570MHz~2620MHz	
		Band 41: 2535MHz~2655MHz	Band 66: 1710 MHz~1780 MHz	
	Wi-Fi:	2412MHz~2462MHz	5150MHz-5250MHz	
		5250MHz-5350MHz	5470MHz-5725MHz	
		5725MHz-5850MHz		
	Bluetooth: 2402 MHz ~ 2480 MHz			
Modulation technology:	GSM:	☒Voice(GMSK)	☒GPRS(GMSK)	☐EGPRS(GMSK, 8PSK)
	WCDMA:	☒RMC(QPSK)	☒HSUPA(QPSK)	☒HSDPA(QPSK,16QAM)
	LTE:	☒QPSK	☒16QAM	☒64QAM
	Wi-Fi:	☒802.11b(DSSS)	☒802.11a/g/n/ac (OFDM)	
	Bluetooth:	☒BDR(GFSK)	☒EDR(π/4-DQPSK, 8DPSK)	☒LE(GFSK)
Antenna Type:	Internal Antenna			
Antenna Gain:	GSM 850: -5.0dBi; PCS 1900: -3.0dBi WCDMA band II: -3.0dBi, WCDMA band IV: -4.0dBi WCDMA band V: -5.0dBi LTE Band 2: -3.0dBi; LTE Band 4: -4.0dBi; LTE Band 5: -5.0dBi; LTE Band 7: -2.0dBi; LTE Band 12: -6.0dBi; LTE Band 13: -6.0dBi; LTE Band 17: -6.0dBi; LTE Band 25: -4.0dBi; LTE Band 26: -5.0dBi; LTE Band 38: -2.0dBi; LTE Band 41: -2.0dBi; LTE Band 66: -4.0dBi;			

	2.4G Wi-Fi: ANT1: -1.0dBi, ANT3: -2.0dBi; 5G Wi-Fi: 1.0dBi Bluetooth: ANT1: -1.0dBi, ANT3: -2.0dBi;	
GPRS Class:	GPRS Class: 12	
Dimensions (L*W*H):	279 mm (L)× 174 mm (W)× 7 mm (H)	
Accessories information:	Adapter: Model: U180XSA Input: AC100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2.4A or 7.5V, 2.4A 18.0W Max	Battery: Rechargeable Li-ion Battery 3.85V, 7000mAh Headset: Support headset

5.3 Maximum RF Output Power

Mode	Average Power (dBm)	
	GSM 850	PCS 1900
GSM (Voice)	32.21	29.39
GPRS (1 TX Slot)	32.25	29.37
GPRS (2 TX Slots)	31.53	28.38
GPRS (3 TX Slots)	29.60	26.24
GPRS (4 TX Slots)	28.37	24.98

Mode	Average Power (dBm)		
	WCDMA Band II	WCDMA Band IV	WCDMA Band V
AMR 12.2 kbps	23.44	22.85	23.89
RMC 12.2 kbps	23.53	22.88	23.88
HSDPA Sub-test 1	22.50	22.00	22.93
HSDPA Sub-test 2	21.94	21.44	22.43
HSDPA Sub-test 3	21.95	21.41	22.43
HSDPA Sub-test 4	21.98	21.40	22.43
HSUPA Sub-test 1	21.48	20.95	20.97
HSUPA Sub-test 2	21.97	21.43	21.46
HSUPA Sub-test 3	22.45	21.96	21.95
HSUPA Sub-test 4	21.48	20.93	20.97
HSUPA Sub-test 5	23.47	22.94	22.92

Mode	Average Power (dBm)											
	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17	LTE Band 25	LTE Band 26	LTE Band 38	LTE Band 41	LTE Band 66
BW/1.4 MHz	23.75	23.33	23.58	/	23.53	/	/	24.08	23.91	/	/	23.55
BW/3.0 MHz	23.49	23.30	23.40	/	23.43	/	/	23.85	23.66	/	/	23.43
BW/5.0 MHz	23.90	23.59	23.76	23.09	23.68	23.77	23.75	24.20	23.99	23.48	23.40	23.75
BW/10 MHz	23.78	23.55	23.69	23.11	23.61	23.67	23.79	24.01	23.87	23.51	23.41	23.68
BW/15 MHz	23.80	23.62	/	23.06	/	/	/	24.08	23.91	23.46	23.45	23.68
BW/20 MHz	23.98	23.67	/	23.16	/	/	/	24.12	/	23.45	23.44	23.62

ANT1

WLAN 2.4 GHz Band Average Power (dBm)			
Mode/Band	b	g	n (HT-20)
WLAN 2.4GHz	17.13	15.42	15.14

ANT3

WLAN 2.4 GHz Band Average Power (dBm)			
Mode/Band	b	g	n (HT-20)
WLAN 2.4GHz	17.77	16.19	16.14

WLAN 5.2 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.2GHz	14.67	13.48	13.26	12.96	13.96	13.48

WLAN 5.3 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.3GHz	9.80	9.66	9.83	9.60	9.90	9.86

WLAN 5.6 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.6GHz	14.85	13.23	13.19	13.03	13.76	13.64

WLAN 5.8 GHz Band Average Power (dBm)						
Mode/Band	a	ac 20	ac 40	ac 80	n 20	n 40
WLAN 5.8GHz	14.76	13.75	13.35	13.28	14.21	13.88

ANT1

Bluetooth Average Power (dBm)							
Mode/Band	1 Mbps (GFSK)	2 Mbps (π/4DQPSK)	3 Mbps (8DPSK)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
Bluetooth	9.76	9.36	9.18	4.39	4.45	4.37	4.31

ANT3

Bluetooth Average Power (dBm)							
Mode/Band	1 Mbps (GFSK)	2 Mbps (π/4DQPSK)	3 Mbps (8DPSK)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
Bluetooth	10.16	9.35	9.14	6.07	5.99	5.93	6.21

5.4 Environment of Test Site

Temperature:	18°C ~25 °C
Humidity:	35%~75% RH
Atmospheric Pressure:	1010 mbar

5.5 Test Sample Plan

Sample Number	Used for Test Items
SZR012500289-3	SAR
***Remark**: JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.*	

5.6 Test Location

JianYan Testing Group Shenzhen Co., Ltd.
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
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6 Introduction

6.1 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.

6.2 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:

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

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

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

7 RF Exposure Limits

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

7.3 RF Exposure Limits

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

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT *General Population* (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT *Occupational* (W/kg) or (mW/g)
SPATIAL PEAK SAR Brain	1.6	8.0
SPATIAL AVERAGE SAR Whole Body	0.08	0.4
SPATIAL PEAK SAR Hands, Feet, Ankles, Wrists	4.0	20

Note:

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

8 SAR Measurement System

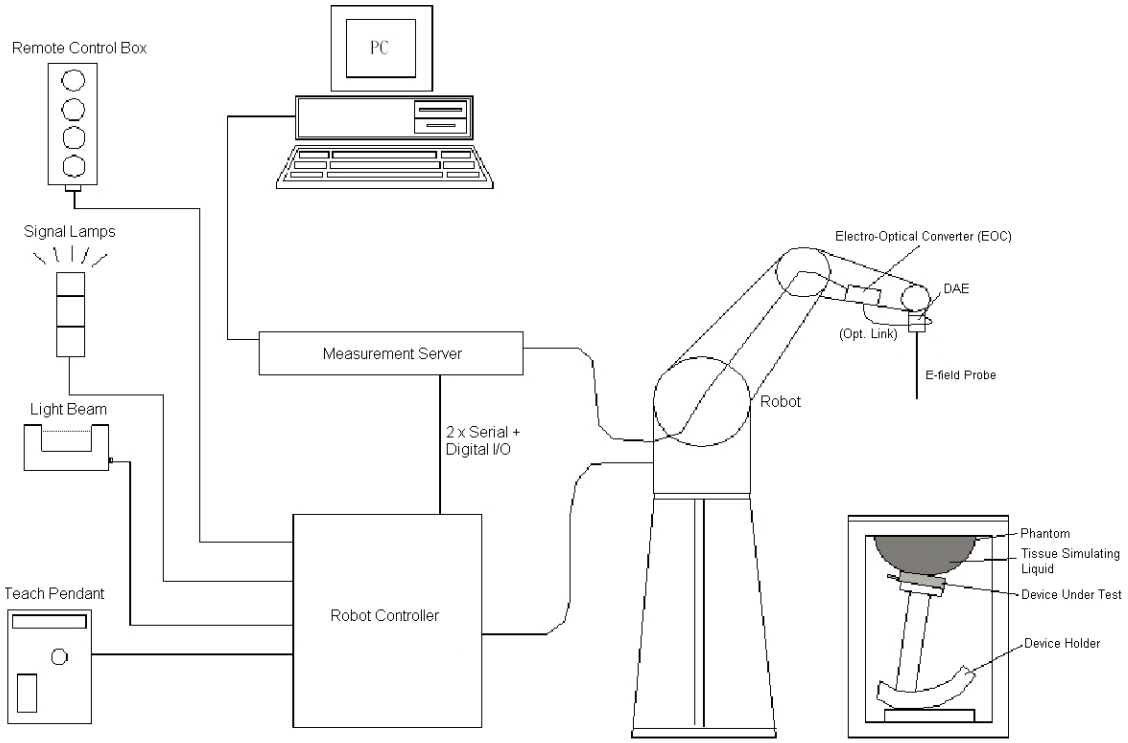


Fig. 8.1 SPEAG DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remove control with teach pendant and additional circuitry for robot safety such as warming lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

Component details are described in the following sub-sections.

8.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

- **E-Field Probe Specification**
  <EX3DV4 Probe>

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency Directivity	10 MHz to 6 GHz; Linearity: ± 0.2 dB ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic Range	10 µW/g to 100 mW/g; Linearity: ± 0.2 dB (noise: typically < 1 µW/g)
Dimensions	Overall length: 330 mm (Tip: 20mm) Tip diameter: 2.5 mm (Body: 12mm) Typical distance from probe tip to dipole centers: 1 mm

Fig. 8.2 Photo of E-Field Probe

- **E-Field Probe Calibration**
  Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than ± 10%. The spherical isotropy shall be evaluated and within ± 0.25 dB. The sensitivity parameters (Norm X, Norm Y and Norm Z), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix E of this report.

8.2 Data Acquisition Electronics (DAE)

The Data acquisition electronics (DAE) consists 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 and 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 input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

Fig. 8.3 Photo of DAE

8.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60L) type from St?ubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from St?ubli is used. The St?ubli robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; nobelt drives)
- Jerk-free straight movements
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

Fig. 8.4 Photo of Robot

8.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY 5: 400MHz, Intel Celeron), chip-disk (DASY5: 128 MB), RAM (DASY5: 128 MB). 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 the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.

Fig. 8.5 Photo of Server for DASY5

8.5 Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.
The repeatability of this process is better than0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.

Fig. 8.6 Photo of Light Beam

8.6 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm
Filling Volume Dimensions	Approx. 25 liters Length: 1000mm; Width: 500mm; Height: adjustable feet
Measurement Areas	Left Head, Right Head, Flat phantom

Fig. 8.7 Photo of SAM Twin Phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom >

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.
ELI4 has been optimized regarding its performance and can be integrated into a SPEAG standard phantom table. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points
The phantom can be used with the following tissue simulating liquids:

- Water-sugar based liquids can be left permanently in the phantom. Always cover the liquid if the system is not in use; otherwise the parameters will change due to water evaporation.
- DGBE based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the phantom resistiveness

Fig.8.8 Photo of ELI4 Phantom

8.7 Device Holder

<Device Holder for SAM Twin 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 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 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 different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center 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-low POM material having the following dielectric parameters: relative permittivity ε = 3 and loss tangent δ = 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.

Fig. 8.9 Photo of Device Holder

8.8 Data storage and Evaluation

- **Data Storage**

  The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verifications of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

  The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

- **Data Evaluation**

  The DASY post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe Parameters:	- Sensitivity	$Norm_i$, a_{i0}, a_{i1}, a_{i2}
	- Conversion	$ConvF_i$
	- Diode compression point	dcp_i
Device Parameters:	- Frequency	f
	- Crest	cf
Media Parameters:	- Conductivity	σ
	- Density	ρ

  These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

  The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

With V_i = compensated signal of channel i, (i = x, y, z)
U_i = input signal of channel i, (i = x, y, z)
cf = crest factor of exciting field (DASY parameter)
dcp^i = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated:

E- Field Probes: $E_i = \sqrt{\frac{v_i}{Norm_i \cdot ConvF}}$

H-Field Probes: $H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1} f + a_{i2} f^2}{f}$

With V_i = compensated signal of channel i, (i = x, y, z)
$Norm_i$ = senor sensitivity of channel i, (i = x, y, z), μV/ $(V/m)^2$
ConvF = sensitivity enhancement in solution
a_{ij} = sensor sensitivity factors for H-field probes
f = carrier frequency (GHz)
E_i = electric field strength of channel i in V/m
Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

With SAR = local specific absorption rate in mW/g
E_{tot} = total field strength in V/m
σ = conductivity in (mho/m) or (Siemens/m)
ρ = equipment tissue density in g/cm^3

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

8.9 Test Equipment List

Manufacturer	Equipment Description	Model	Management Number	Cal. Information	
				Last Cal.	Due Date
SPEAG	750MHz System Validation Kit	D750V3	WXJ023	05.18.2023	05.17.2026
SPEAG	835MHz System Validation Kit	D835V2	WXJ023-1	05.12.2025	05.11.2028
SPEAG	1750MHz System Validation Kit	D1750V2	WXJ023-6	01.17.2024	01.16.2027
SPEAG	1900MHz System Validation Kit	D1900V2	WXJ023-2	05.15.2025	05.14.2028
SPEAG	2450MHz System Validation Kit	D2450V2	WXJ023-3	05.09.2025	05.08.2028
SPEAG	2600MHz System Validation Kit	D2600V2	WXJ023-4	10.23.2024	10.22.2027
SPEAG	5GHz System Validation Kit	D5GHzV2	WXJ023-14	01.16.2024	01.15.2027
SPEAG	Data Acquisition Electronics	DAE4	WXJ021-1	04.10.2025	04.09.2026
SPEAG	Dosimetric E-Field Probe	EX3DV4	WXJ022-1	04.11.2025	04.10.2026
SPEAG	DASY 52 Measurement Software	DASY 52	Version 52.10.4.1527	N.C.R	N.C.R
SPEAG	DASY 52 File Conversion Software	SEMCAD X	Version 14.6.14 (7501)	N.C.R	N.C.R
SPEAG	Robot Controller	CS8Cspeag-TX60	WXG021-1	N.C.R	N.C.R
SPEAG	Phantom	Twin SAM Phantom	WXG021-4	N.C.R	N.C.R
SPEAG	Phantom	ELI V5.0	WXG021-5	N.C.R	N.C.R
SPEAG	Phone Positioner	N/A	WXG021-6	N.C.R	N.C.R
St?ubli	Robot	TX60Lspeag	WXG021-3	N.C.R	N.C.R
Anritsu	Universal Radio Communication Analyzer	MT8820C	WXJ008-5	12.16.2024	12.15.2026
R&S	Universal Radio Communication Tester	CMU200	WXJ008-2	12.27.2023	12.26.2025
KEYSIGHT	Network Analyzer	E5071C	WXJ091	12.16.2024	12.15.2025
KEYSIGHT	EPM Series Power Meter	N1914A	WXJ075	05.08.2025	05.07.2026
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-1	05.08.2025	05.07.2026
KEYSIGHT	E-Series Power Sensor	E9300H	WXJ075-2	05.08.2025	05.07.2026
KEYSIGHT	Signal Generator	N5173B	WXJ006-3	09.09.2024	09.08.2025
Huber Suhner	RF Cable	SUCOFLEX	WXG008-13	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	WXG008-14	See Note 3	
Huber Suhner	RF Cable	SUCOFLEX	WXG008-15	See Note 3	
Weinschel	Attenuator	23-3-34	WXG008-16	See Note 3	
Anritsu	Directional Coupler	MP654A	WXG008-17	See Note 3	
SPEAG	Dielectric Assessment Kit	3.5 Probe	WXG008-7	See Note 4	
SPEAG	DAK Measurement Software	DAK	Version: DAK 3.5	N.C.R	
TXC	Broadband Amplifier	BBA018000	WXG008-11	See Note 5	

Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
4. The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Speag.
5. In system check we need to monitor the level on the power meter, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1 W input power according to the ratio of 1 W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the power meter is critical and we do have calibration for it
6. Attenuator insertion loss is calibrated by the network Analyzer, which the calibration is valid, before system check.
7. N.C.R means No Calibration Requirement.

9 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For body SAR testing, the liquid height from the center of the flat phantom to liquid top surface is larger than 15 cm, which is shown in Fig. 9.1.

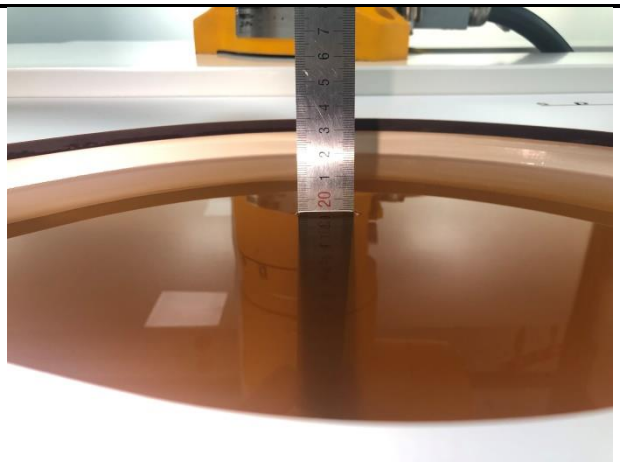


Fig. 9.4 Photo of Liquid Height for Body SAR (depth>15cm)

The relative permittivity and conductivity of the tissue material should be within ±5% of the values given in the table below recommended by the FCC OET 65 supplement C and RSS 102 Issue 5.

Target Frequency (MHz)	εr	σ(S/m)
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
835	41.5	0.90
900	41.5	0.97
915	41.5	0.98
1450	40.5	1.20
1610	40.3	1.29
1800-2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5800	35.3	5.27

(εr = relative permittivity, σ = conductivity and ρ = 1000 kg/m^3)

The dielectric parameters of liquids were verified prior to the SAR evaluation using a Speag Dielectric Probe Kit and an Agilent Network Analyzer.
The following table shows the measuring results for simulating liquid.

Frequency (MHz)	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (εr)	Conductivity Target(σ)	Permittivity Target(εr)	Delta (σ)%	Delta (εr)%	Limit (%)	Date (mm/dd/yy)
750	23.1	0.90	41.36	0.89	41.90	0.67	-1.29	±5	06.27.2025
835	23.1	0.88	41.14	0.90	41.50	-2.00	-0.87	±5	06.27.2025
1750	23.2	1.39	39.52	1.37	40.10	1.75	-1.44	±5	06.29.2025
1900	23.2	1.46	39.39	1.40	40.00	4.57	-1.52	±5	06.29.2025
2450	22.8	1.87	38.76	1.80	39.20	4.00	-1.12	±5	07.04.2025
2600	23.3	1.99	38.51	1.96	39.00	1.58	-1.26	±5	07.07.2025
5200	22.1	4.85	36.85	4.66	36.00	3.97	2.35	±5	07.09.2025
5300	22.1	4.96	36.71	4.76	35.90	4.20	2.25	±5	07.09.2025
5600	22.2	5.20	36.30	5.07	35.50	2.47	2.25	±5	07.12.2025
5800	22.2	5.42	36.01	5.27	35.30	2.88	2.01	±5	07.12.2025

10 SAR System Verification

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

- **Purpose of System Performance check**
  The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

- **System Setup**
  In the simplified setup for system evaluation, the EUT 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:

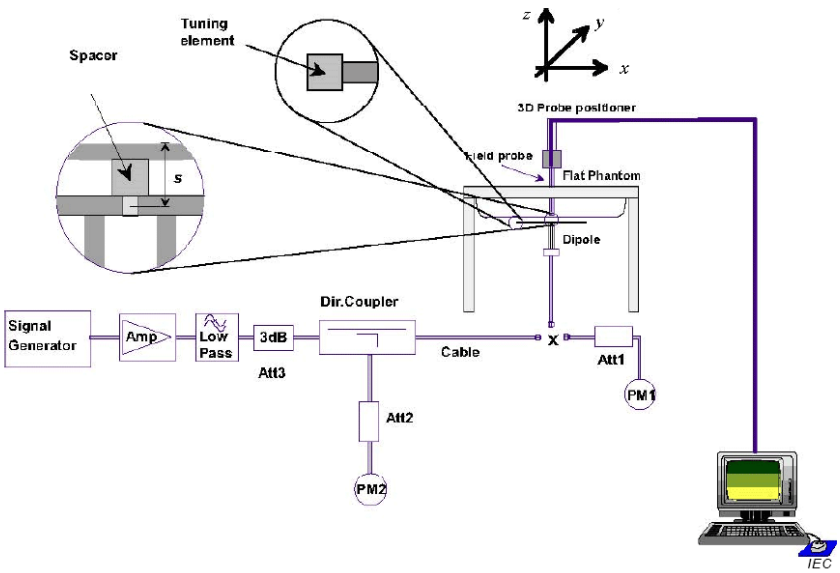


Fig.10.1 System Verification Setup Diagram

Fig.10.2 Photo of Dipole setup

- **System Verification Results**
  Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix C of this report.

Date (mm/dd/yy)	Frequency (MHz)	Power fed onto dipole (mW)	Measured 1g SAR (W/kg)	Normalized to 1W 1g SAR (W/kg)	1W Target 1g SAR (W/kg)	Deviation (%)
06.27.2025	750	80	0.619	7.74	8.55	-9.47
06.27.2025	835	80	0.708	8.85	9.58	-7.62
06.29.2025	1750	40	1.360	34.00	36.5	-6.85
06.29.2025	1900	40	1.640	41.00	39.7	3.27
07.04.2025	2450	40	2.060	51.50	52.1	-1.15
07.07.2025	2600	40	2.160	54.00	56.3	-4.09
07.09.2025	5200	40	2.930	73.25	77.00	-4.87
07.09.2025	5300	40	3.070	76.75	79.20	-3.09
07.12.2025	5600	40	3.030	75.75	81.90	-7.51
07.12.2025	5800	40	2.860	71.50	78.90	-9.38

11 EUT Testing Position

This EUT was tested in four different positions. They are Back/Right Side/Left Side/Top Side of the EUT with phantom 0 mm gap, as illustrated below, please refer to Appendix B for the test setup photos.

11.1 Body Worn Accessory Configurations

- To position the device parallel to the phantom surface with either keypad up or down.
- To adjust the device parallel to the flat phantom.
- To adjust the distance between the device surface and the flat phantom to 0 mm or holster surface and the flat phantom to 0 mm.

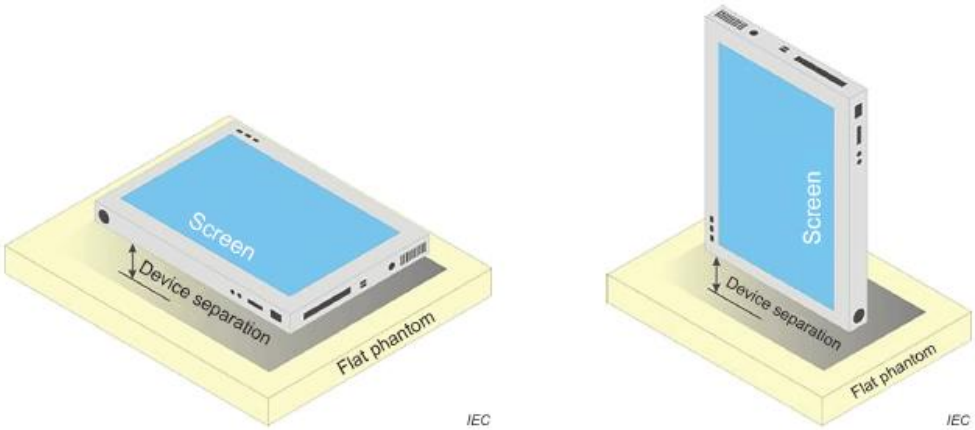


Fig.11.5 Illustration for Body Worn Position

12 Measurement Procedures

The measurement procedures are as below:

<Conducted power measurement>

- For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- Connect EUT RF port through RF cable to the power meter or spectrum analyzer, and measure WLAN/BT output power.

<Conducted power measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- Place the EUT in positions as Appendix B demonstrates.
- Set scan area, grid size and other setting on the DASY software.
- Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band.
- Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement
- Area scan
- Zoom scan
- Power drift measurement

12.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a “cube” measurement. The measured volume must include the 1g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- Extraction of the measured data (grid and values) from the Zoom Scan.
- Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
- Generation of a high-resolution mesh within the measured volume.
- Interpolation of all measured values form the measurement grid to the high-resolution grid
- Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- Calculation of the averaged SAR within masses of 1g and 10g.

12.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

12.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 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 ≤ 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: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 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 *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 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.

12.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD post-processor scan combine and subsequently superpose these measurement data to calculating the multiband SAR.

12.5 SAR Averaged Methods

In DASY, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm.

12.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

13 Conducted RF Output Power

13.1 GSM Conducted Power

Band: GSM 850	Burst Average Power (dBm)			Frame-Average Power(dBm)		
Channel	128	190	251	128	190	251
Frequency (MHz)	824.2	836.6	848.8	824.2	836.6	848.8
GSM (GMSK, Voice)	31.89	**32.21**	32.21	22.86	23.18	23.18
GPRS (GMSK, 1 TX slot)	31.94	32.25	32.25	22.91	23.22	23.22
GPRS (GMSK, 2 TX slots)	31.20	31.47	**31.53**	25.18	25.45	**25.51**
GPRS (GMSK, 3 TX slots)	29.19	29.47	29.60	24.93	25.21	25.34
GPRS (GMSK, 4 TX slots)	27.96	28.23	28.37	24.95	25.22	25.36

Remark:

1. The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
   The duty cycle "x" of different time slots as below:
   1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
   Based on the calculation formula:
   Frame-averaged power = Burst averaged power + 10 1og (x)
   So,
   Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
   Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
   Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
   Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
2. CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

1. For Body worn SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM 850 Voice mode.
2. For Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
3. Per KDB447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

Band: PCS 1900	Burst Average Power (dBm)			Frame-Average Power(dBm)		
Channel	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (GMSK, Voice)	29.13	**29.39**	29.32	20.10	20.36	20.29
GPRS (GMSK, 1 TX slot)	29.16	29.37	29.30	20.13	20.34	20.27
GPRS (GMSK, 2 TX slots)	28.14	**28.38**	28.38	22.12	**22.36**	22.36
GPRS (GMSK, 3 TX slots)	25.86	26.12	26.24	21.60	21.86	21.98
GPRS (GMSK, 4 TX slots)	24.61	24.85	24.98	21.60	21.84	21.97

Remark:

1. The frame-averaged power is linearly reported the maximum burst averaged power over 8 time slots. The calculated method are shown as below:
   The duty cycle "x" of different time slots as below:
   1 TX slot is 1/8, 2 TX slots is 2/8, 3 TX slots is 3/8 and 4 TX slots is 4/8
   Based on the calculation formula:
   Frame-averaged power = Burst averaged power + 10 1og (x)
   So,
   Frame-averaged power (1 TX slot) = Burst averaged power (1 TX slot)– 9.03
   Frame-averaged power (2 TX slots) = Burst averaged power (2 TX slots)– 6.02
   Frame-averaged power (3 TX slots) = Burst averaged power (3 TX slots)– 4.26
   Frame-averaged power (4 TX slots) = Burst averaged power (4 TX slots) – 3.01
2. CS1 coding scheme was used in GPRS conducted power measurements and SAR testing, MCS5 coding scheme was used in EGPRS conducted power measurements and SAR testing (if necessary).

Note:

1. For Body worn SAR testing, GSM Voice mode should be evaluated, therefore the EUT was set in GSM Voice 1900 mode.
2. For Hotspot mode SAR testing, GPRS and EGPRS mode should be evaluated, therefore the EUT was set in GPRS 2 TX slots mode due to the highest frame-averaged power.
3. Per KDB447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

13.2 WCDMA Conducted Power

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

HSDPA Setup Configuration:

a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting:
   i. Set Gain Factors (β_c and β_d) and parameters were set according to each
   ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
   iii. Set RMC 12.2kbps + HSDPA mode.
   iv. Set Cell Power = -86 dBm
   v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
   vi. Select HSDPA Uplink Parameters
   vii. Set Delta ACK, Delta NACK and Delta CQI = 8
   viii. Set Ack-Nack Repetition Factor to 3
   ix. Set CQI Feedback Cycle (k) to 4 ms
   x. Set CQI Repetition Factor to 2
   xi. Power Ctrl Mode = All Up bits
d. The transmitted maximum output power was recorded.

Table 1

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

Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15.
Note 3: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15.

HSDPA Sub-test setup configuration

HSUPA Setup Configuration:

a. The EUT was connected to Base Station Rohde & Schwarz CMU200 referred to the Setup Configuration.
b. The RF path losses were compensated into the measurements.
c. A call was established between EUT and Base Station with following setting * :
   i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
   ii. Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
   iii. Set Cell Power = -86 dBm
   iv. Set Channel Type = 12.2k + HSPA
   v. Set UE Target Power
   vi. Power Ctrl Mode= Alternating bits
   vii. Set and observe the E-TFCI
   viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
d. The transmitted maximum output power was recorded.

Table 2

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (1)	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM(2) (dB)	MPR (dB)	AG(4) Index	E-TFCI
1	11/15(3)	15/15(3)	64	11/15(3)	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	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1}: 47/15 β_{ed2}: 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15(4)	15/15(4)	64	15/15(4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK}, Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.
Note 2: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c=24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.
Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to β_c = 14/15 and β_d = 15/15.
Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.
Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

HSUPA Sub-test setup configuration

WCDMA Conducted Power:

WCDMA Average power (dBm)			
Band	WCDMA Band II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
AMR 12.2 kbps	23.17	23.40	23.44
RMC 12.2 kbps	23.27	23.49	**23.53**
HSDPA Sub-test 1	22.29	22.50	22.47
HSDPA Sub-test 2	21.69	21.94	21.92
HSDPA Sub-test 3	21.70	21.95	21.92
HSDPA Sub-test 4	21.71	21.98	21.94
HSUPA Sub-test 1	21.24	21.48	21.41
HSUPA Sub-test 2	21.74	21.97	21.94
HSUPA Sub-test 3	22.24	22.45	22.41
HSUPA Sub-test 4	21.26	21.48	21.45
HSUPA Sub-test 5	23.23	23.47	23.39

WCDMA Average power (dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
AMR 12.2 kbps	22.84	22.85	22.75
RMC 12.2 kbps	22.86	**22.88**	22.87
HSDPA Sub-test 1	21.90	22.00	21.90
HSDPA Sub-test 2	21.35	21.44	21.31
HSDPA Sub-test 3	21.37	21.41	21.30
HSDPA Sub-test 4	21.34	21.40	21.26
HSUPA Sub-test 1	20.90	20.95	20.85
HSUPA Sub-test 2	21.42	21.43	21.35
HSUPA Sub-test 3	21.89	21.96	21.85
HSUPA Sub-test 4	20.87	20.93	20.87
HSUPA Sub-test 5	22.88	22.94	22.81

WCDMA Average power (dBm)			
Band	WCDMA Band V		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
AMR 12.2 kbps	23.81	23.89	23.84
RMC 12.2 kbps	23.79	**23.88**	23.85
HSDPA Sub-test 1	22.85	22.93	22.88
HSDPA Sub-test 2	22.36	22.43	22.42
HSDPA Sub-test 3	22.35	22.43	22.42
HSDPA Sub-test 4	22.32	22.43	22.37
HSUPA Sub-test 1	20.90	20.97	20.93
HSUPA Sub-test 2	21.41	21.46	21.40
HSUPA Sub-test 3	21.88	21.95	21.95
HSUPA Sub-test 4	20.91	20.97	20.95
HSUPA Sub-test 5	22.82	22.92	22.88

Note:

1. Applying the subtest setup in Table C.11.1.3 of 3GPP TS 34.121-1
2. Per KDB 941225 D01, RMC 12.2kbps mode is used to evaluate SAR due the highest output power. If AMR 12.2 kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2 kbps can be excluded.
3. AMR, HSDPA RF power will not be larger than RMC 12.2kbps, detailed information is included in Tune-up Procure exhibit.

13.3 LTE Conducted Power

13.3.1 Largest channel bandwidth standalone SAR test requirements

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.8 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.

QPSK with 50% RB allocation

The procedures required for 1 RB allocation in section 4.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.9

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 sections 4.2.1 and 4.2.2 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.

Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 4.2.1, 5.2.2 and 4.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ? dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

13.3.2 Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 4.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ? dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth. For example, 50 RB in 10 MHz channel bandwidth does not apply to 5 MHz channel bandwidth; therefore, this cannot be tested in the smaller channel bandwidth. However, 50% RB allocation in 10 MHz channel bandwidth is equivalent to 100% RB allocation in 5 MHz channel bandwidth; therefore, these are the equivalent configurations to be compared to determine the specific channel and configuration in the smaller channel bandwidth that need SAR testing.

13.3.3 TDD LTE configuration setup for SAR measurement

According to KDB 941225 D05v02r03 and April 2013 TCB workshop slides, SAR must be tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- see 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions and must be taken into consideration to determine the transmission duty factor
  - according to the worst case uplink and downlink cyclic prefix requirements for UpPTS to determine the highest SAR test duty factor

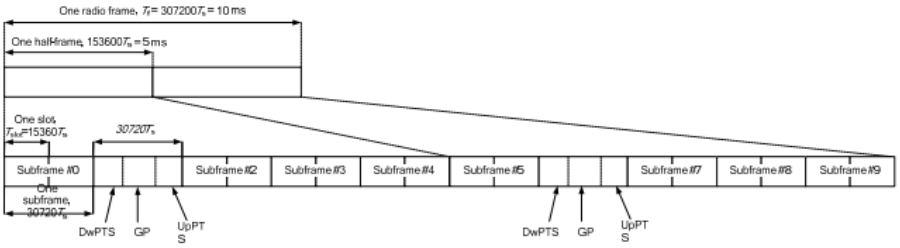


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

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	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Per 3GPP 36.211 section 4.2, each radio frame of length T_f=37200?Ts = 10 ms consists of two half-frames of length 153600?Ts = 5ms each. Each half-frame consists of five subframes of length 30720 ?Ts = 1ms. So, the uplink duty factor in special subframe as below:

Special Subframe configuration	Normal cyclic prefix in downlink		Extended cyclic prefix in downlink	
	Duty factor of Uplink		Duty factor of Uplink	
	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	7.14%	8.33%	7.14%	8.33%
1	7.14%	8.33%	7.14%	8.33%
2	7.14%	8.33%	7.14%	8.33%
3	7.14%	8.33%	7.14%	8.33%
4	7.14%	8.33%	14.27%	16.67%
5	14.27%	16.67%	14.27%	16.67%
6	14.27%	16.67%	14.27%	16.67%
7	14.27%	16.67%	14.27%	16.67%
8	14.27%	16.67%	/	/
9	14.27%	16.67%	/	/

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

According to above table:

1. The highest duty factor is configuration 0;
2. The duty factor of uplink in one half-frame with normal cyclic prefix is: (3ms + 0.143ms)/5ms=62.86%;
3. The duty factor of uplink in one half-frame with extended cyclic prefix is: (3ms + 0.167ms)/5ms=63.34%;
4. For purpose to get the worst case SAR test duty factor, the duty factor of normal cyclic prefix in uplink scaled-up to the extended cyclic prefix in uplink, the scaling factor is 63.34%/62.86%=1.008, and the scaling factor will be taken into the final measured SAR.

LTE Band 2 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
Band 2	1.4	QPSK	1	0	23.29	23.57	23.57
			1	2	23.26	23.53	23.57
			1	5	23.25	23.55	23.54
			3	0	23.39	23.74	23.68
			3	1	23.43	23.71	23.67
			3	2	23.42	23.75	23.69
			6	0	22.45	22.73	22.71
		16QAM	1	0	22.45	22.69	22.65
			1	2	22.45	22.73	22.76
			1	5	22.44	22.70	22.71
			3	0	22.34	22.64	22.63
			3	1	22.38	22.61	22.61
			3	2	22.33	22.61	22.56
			6	0	21.40	21.86	21.67
		64QAM	1	0	21.46	22.10	21.66
			1	2	21.50	22.13	21.71
			1	5	21.45	22.17	21.68
			3	0	21.45	21.89	21.66
			3	1	21.43	21.92	21.65
			3	2	21.46	21.91	21.66
			6	0	20.38	20.69	20.63

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
Band 2	3	QPSK	1	0	23.07	23.41	23.36
			1	7	23.18	23.48	23.49
			1	14	23.10	23.38	23.35
			8	0	22.28	22.55	22.53
			8	4	22.26	22.56	22.54
			8	7	22.27	22.62	22.60
			15	0	22.31	22.67	22.62
		16QAM	1	0	22.23	22.63	22.51
			1	7	22.33	22.72	22.60
			1	14	22.22	22.61	22.47
			8	0	21.32	21.70	21.60
			8	4	21.34	21.73	21.61
			8	7	21.34	21.70	21.58
			15	0	21.30	21.70	21.52
		64QAM	1	0	21.29	21.56	21.47
			1	7	21.40	21.69	21.61
			1	14	21.32	21.51	21.52
			8	0	20.37	20.68	20.67
			8	4	20.39	20.71	20.61
			8	7	20.39	20.72	20.62
			15	0	20.35	20.80	20.65

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
Band 2	5	QPSK	1	0	23.39	23.73	23.68
			1	12	23.53	23.90	23.83
			1	24	23.41	23.66	23.68
			12	0	22.40	22.65	22.71
			12	6	22.37	22.67	22.70
			12	11	22.40	22.71	22.67
			25	0	22.40	22.77	22.64
		16QAM	1	0	22.62	22.73	22.85
			1	12	22.75	22.84	23.02
			1	24	22.63	22.71	22.89
			12	0	21.48	21.75	21.72
			12	6	21.50	21.78	21.73
			12	11	21.44	21.80	21.70
			25	0	21.49	21.84	21.65
		64QAM	1	0	21.99	21.72	22.22
			1	12	22.16	21.87	22.29
			1	24	22.00	21.77	22.20
			12	0	20.49	20.83	20.80
			12	6	20.55	20.84	20.82
			12	11	20.53	20.83	20.82
			25	0	20.52	20.87	20.66

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
Band 2	10	QPSK	1	0	23.39	23.78	23.72
			1	24	23.44	23.74	23.72
			1	49	23.45	23.78	23.75
			25	0	22.41	22.70	22.58
			25	12	22.40	22.73	22.59
			25	24	22.39	22.70	22.58
			50	0	22.40	22.76	22.62
		16QAM	1	0	22.57	22.97	22.91
			1	24	22.59	22.98	22.89
			1	49	22.64	23.02	22.90
			25	0	21.50	21.78	21.66
			25	12	21.51	21.77	21.70
			25	24	21.48	21.75	21.64
			50	0	21.50	21.77	21.67
		64QAM	1	0	21.45	21.79	21.84
			1	24	21.49	21.84	21.87
			1	49	21.62	21.79	21.84
			25	0	20.49	20.77	20.64
			25	12	20.47	20.79	20.68
			25	24	20.48	20.83	20.61
			50	0	20.53	20.82	20.62

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
Band 2	15	QPSK	1	0	23.34	23.74	23.70
			1	37	23.54	23.80	23.73
			1	74	23.45	23.75	23.73
			36	0	22.43	22.73	22.69
			36	16	22.50	22.72	22.71
			36	35	22.45	22.75	22.74
			75	0	22.51	22.74	22.71
		16QAM	1	0	22.67	22.88	23.03
			1	37	22.81	22.98	23.06
			1	74	22.77	22.94	22.99
			36	0	21.54	21.82	21.77
			36	16	21.53	21.74	21.72
			36	35	21.53	21.76	21.79
			75	0	21.56	21.80	21.73
		64QAM	1	0	21.71	21.79	22.05
			1	37	21.91	21.81	22.18
			1	74	21.83	21.80	22.00
			36	0	20.53	20.78	20.78
			36	16	20.52	20.85	20.78
			36	35	20.53	20.85	20.82
			75	0	20.57	20.85	20.81

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
Band 2	20	QPSK	1	0	23.36	23.74	23.73
			1	49	23.62	23.98	23.93
			1	99	23.51	23.84	23.79
			50	0	22.45	22.70	22.88
			50	24	22.51	22.66	22.87
			50	49	22.45	22.68	22.85
			100	0	22.51	22.76	22.86
		16QAM	1	0	22.51	22.79	22.94
			1	49	22.81	22.94	23.11
			1	99	22.67	22.81	22.93
			50	0	21.54	21.70	21.92
			50	24	21.54	21.72	21.91
			50	49	21.54	21.71	21.89
			100	0	21.61	21.87	21.91
		64QAM	1	0	21.68	22.08	22.02
			1	49	21.98	22.35	22.21
			1	99	21.81	22.23	22.02
			50	0	20.60	20.78	21.01
			50	24	20.63	20.74	21.00
			50	49	20.59	20.76	20.99
			100	0	20.60	20.84	20.97

LTE Band 4 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19957	20175	20393
					1710.7	1732.5	1754.3
Band 4	1.4	QPSK	1	0	23.19	23.22	23.24
			1	2	23.17	23.20	23.24
			1	5	23.15	23.27	23.21
			3	0	23.30	23.32	23.32
			3	1	23.25	23.31	23.31
			3	2	23.27	23.33	23.30
			6	0	22.32	22.43	22.37
		16QAM	1	0	22.29	22.35	22.11
			1	2	22.33	22.40	22.17
			1	5	22.28	22.42	22.10
			3	0	22.16	22.24	22.11
			3	1	22.15	22.22	22.13
			3	2	22.14	22.23	22.13
			6	0	21.44	21.36	21.41
		64QAM	1	0	21.69	21.41	21.58
			1	2	21.66	21.40	21.62
			1	5	21.66	21.35	21.58
			3	0	21.50	21.32	21.50
			3	1	21.49	21.34	21.55
			3	2	21.48	21.36	21.55
			6	0	20.28	20.33	20.40

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19965	20175	20385
					1711.5	1732.5	1753.5
Band 4	3	QPSK	1	0	23.09	23.24	23.07
			1	7	23.18	23.30	23.20
			1	14	23.09	23.19	23.11
			8	0	22.28	22.33	22.26
			8	4	22.29	22.36	22.26
			8	7	22.26	22.42	22.34
			15	0	22.30	22.38	22.32
		16QAM	1	0	22.29	22.03	22.23
			1	7	22.31	22.19	22.33
			1	14	22.20	22.05	22.27
			8	0	21.30	21.39	21.37
			8	4	21.29	21.36	21.41
			8	7	21.35	21.42	21.46
			15	0	21.29	21.29	21.37
		64QAM	1	0	21.23	21.55	21.15
			1	7	21.35	21.71	21.36
			1	14	21.27	21.58	21.26
			8	0	20.36	20.41	20.41
			8	4	20.33	20.41	20.37
			8	7	20.37	20.47	20.38
			15	0	20.35	20.40	20.50

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					19975	20175	20375
					1712.5	1732.5	1752.5
Band 4	5	QPSK	1	0	23.42	23.50	23.40
			1	12	23.53	23.59	23.53
			1	24	23.39	23.53	23.39
			12	0	22.36	22.44	22.42
			12	6	22.36	22.40	22.41
			12	11	22.35	22.44	22.38
			25	0	22.40	22.46	22.43
		16QAM	1	0	22.60	22.47	22.43
			1	12	22.72	22.61	22.52
			1	24	22.63	22.50	22.47
			12	0	21.43	21.46	21.44
			12	6	21.40	21.47	21.45
			12	11	21.45	21.43	21.46
			25	0	21.41	21.57	21.48
		64QAM	1	0	22.07	21.80	21.38
			1	12	22.10	22.01	21.50
			1	24	21.99	21.84	21.42
			12	0	20.46	20.54	20.55
			12	6	20.45	20.55	20.50
			12	11	20.45	20.56	20.51
			25	0	20.47	20.51	20.55

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20000	20175	20350
					1715	1732.5	1750
Band 4	10	QPSK	1	0	23.41	23.52	23.47
			1	24	23.49	23.55	23.47
			1	49	23.49	23.55	23.45
			25	0	22.35	22.37	22.44
			25	12	22.35	22.37	22.45
			25	24	22.35	22.37	22.42
			50	0	22.38	22.48	22.42
		16QAM	1	0	22.58	22.39	22.62
			1	24	22.65	22.47	22.60
			1	49	22.61	22.45	22.66
			25	0	21.45	21.48	21.48
			25	12	21.42	21.46	21.51
			25	24	21.41	21.48	21.49
			50	0	21.45	21.48	21.48
		64QAM	1	0	21.54	21.78	21.52
			1	24	21.53	21.83	21.48
			1	49	21.56	21.87	21.54
			25	0	20.42	20.48	20.52
			25	12	20.37	20.46	20.57
			25	24	20.40	20.41	20.57
			50	0	20.47	20.51	20.48

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20025	20175	20325
					1717.5	1732.5	1747.5
Band 4	15	QPSK	1	0	23.39	23.44	23.42
			1	37	23.53	23.62	23.54
			1	74	23.47	23.52	23.46
			36	0	22.40	22.41	22.55
			36	16	22.43	22.38	22.56
			36	35	22.42	22.45	22.56
			75	0	22.51	22.53	22.51
		16QAM	1	0	22.63	22.32	22.59
			1	37	22.80	22.51	22.67
			1	74	22.76	22.46	22.61
			36	0	21.49	21.43	21.53
			36	16	21.50	21.41	21.55
			36	35	21.53	21.42	21.57
			75	0	21.55	21.51	21.48
		64QAM	1	0	21.65	21.73	21.45
			1	37	21.83	21.89	21.51
			1	74	21.80	21.81	21.47
			36	0	20.44	20.45	20.56
			36	16	20.48	20.42	20.57
			36	35	20.46	20.43	20.61
			75	0	20.50	20.52	20.52

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20050	20175	20300
					1720	1732.5	1745
Band 4	20	QPSK	1	0	23.31	23.22	23.42
			1	49	23.51	23.47	23.67
			1	99	23.40	23.41	23.44
			50	0	22.36	22.30	22.40
			50	24	22.29	22.33	22.38
			50	49	22.33	22.30	22.39
			100	0	22.39	22.47	22.39
		16QAM	1	0	22.45	22.29	22.39
			1	49	22.67	22.58	22.61
			1	99	22.54	22.50	22.44
			50	0	21.42	21.41	21.41
			50	24	21.38	21.43	21.46
			50	49	21.40	21.36	21.43
			100	0	21.51	21.48	21.42
		64QAM	1	0	21.60	21.29	21.74
			1	49	21.79	21.53	21.96
			1	99	21.71	21.45	21.81
			50	0	20.48	20.43	20.47
			50	24	20.49	20.40	20.47
			50	49	20.43	20.43	20.47
			100	0	20.53	20.50	20.45

LTE Band 5 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
Band 5	1.4	QPSK	1	0	23.40	23.40	23.47
			1	2	23.43	23.45	23.48
			1	5	23.45	23.44	23.46
			3	0	23.49	23.55	23.58
			3	1	23.54	23.55	23.58
			3	2	23.56	23.56	23.57
			6	0	22.54	22.54	22.63
		16QAM	1	0	22.20	22.25	22.19
			1	2	22.24	22.26	22.25
			1	5	22.17	22.19	22.22
			3	0	22.27	22.33	22.32
			3	1	22.25	22.35	22.29
			3	2	22.29	22.28	22.30
			6	0	21.57	21.61	21.69
		64QAM	1	0	21.66	21.75	21.72
			1	2	21.72	21.70	21.75
			1	5	21.72	21.72	21.70
			3	0	21.72	21.77	21.74
			3	1	21.73	21.76	21.77
			3	2	21.73	21.72	21.75
			6	0	20.54	20.59	20.67

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
Band 5	3	QPSK	1	0	23.28	23.28	23.30
			1	7	23.39	23.40	23.38
			1	14	23.30	23.22	23.36
			8	0	22.46	22.41	22.41
			8	4	22.45	22.41	22.42
			8	7	22.46	22.54	22.50
			15	0	22.48	22.49	22.53
		16QAM	1	0	22.00	22.27	22.17
			1	7	22.09	22.43	22.25
			1	14	22.02	22.33	22.11
			8	0	21.47	21.58	21.47
			8	4	21.51	21.53	21.50
			8	7	21.45	21.52	21.55
			15	0	21.43	21.62	21.49
		64QAM	1	0	21.58	21.26	21.24
			1	7	21.62	21.46	21.34
			1	14	21.51	21.34	21.30
			8	0	20.51	20.52	20.48
			8	4	20.44	20.60	20.50
			8	7	20.55	20.56	20.53
			15	0	20.50	20.68	20.58

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
Band 5	5	QPSK	1	0	23.61	23.60	23.52
			1	12	23.70	23.76	23.62
			1	24	23.61	23.61	23.59
			12	0	22.53	22.60	22.60
			12	6	22.55	22.62	22.57
			12	11	22.54	22.55	22.61
			25	0	22.51	22.58	22.60
		16QAM	1	0	22.40	22.57	22.61
			1	12	22.57	22.72	22.79
			1	24	22.43	22.58	22.66
			12	0	21.55	21.61	21.73
			12	6	21.57	21.64	21.70
			12	11	21.55	21.64	21.68
			25	0	21.61	21.69	21.60
		64QAM	1	0	21.70	21.45	22.04
			1	12	21.92	21.63	22.12
			1	24	21.81	21.48	22.08
			12	0	20.69	20.69	20.63
			12	6	20.67	20.67	20.67
			12	11	20.68	20.68	20.69
			25	0	20.65	20.71	20.63

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20450	20525	20600
					829MHz	836.5MHz	844MHz
Band 5	10	QPSK	1	0	23.59	23.63	23.64
			1	24	23.62	23.61	23.67
			1	49	23.58	23.68	23.69
			25	0	22.47	22.58	22.59
			25	12	22.43	22.53	22.58
			25	24	22.49	22.56	22.52
			50	0	22.55	22.58	22.59
		16QAM	1	0	22.29	22.61	22.50
			1	24	22.35	22.70	22.51
			1	49	22.40	22.67	22.52
			25	0	21.59	21.61	21.67
			25	12	21.55	21.62	21.67
			25	24	21.55	21.63	21.70
			50	0	21.59	21.65	21.60
		64QAM	1	0	21.76	21.48	21.47
			1	24	21.80	21.59	21.53
			1	49	21.83	21.60	21.56
			25	0	20.51	20.63	20.62
			25	12	20.48	20.64	20.70
			25	24	20.56	20.63	20.64
			50	0	20.59	20.64	20.64

LTE Band 7 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20775	21100	21425
					2502.5MHz	2535MHz	2567.5MHz
Band 7	5	QPSK	1	0	22.94	22.87	22.86
			1	12	23.07	23.04	23.09
			1	24	23.00	22.90	22.87
			12	0	21.89	21.83	21.85
			12	6	21.98	21.90	21.88
			12	11	21.93	21.90	21.90
			25	0	21.98	21.89	21.88
		16QAM	1	0	22.00	21.75	21.82
			1	12	22.18	21.96	22.00
			1	24	22.00	21.82	21.83
			12	0	20.91	20.84	20.89
			12	6	20.96	20.82	20.83
			12	11	20.93	20.84	20.84
			25	0	20.95	20.96	20.89
		64QAM	1	0	21.35	20.93	20.68
			1	12	21.49	21.13	20.82
			1	24	21.37	20.94	20.66
			12	0	19.96	19.96	19.96
			12	6	19.88	19.91	19.96
			12	11	19.94	19.91	19.90
			25	0	19.89	19.93	19.96

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20800	21100	21400
					2505MHz	2535MHz	2565MHz
Band 7	10	QPSK	1	0	22.99	22.89	22.89
			1	24	23.08	22.96	22.97
			1	49	23.11	22.96	22.97
			25	0	21.97	21.87	21.87
			25	12	21.91	21.87	21.91
			25	24	21.89	21.87	21.93
			50	0	22.00	21.91	21.87
		16QAM	1	0	21.84	21.88	21.73
			1	24	21.80	21.96	21.79
			1	49	21.80	21.94	21.84
			25	0	20.95	20.83	20.95
			25	12	20.93	20.84	20.90
			25	24	20.92	20.81	20.94
			50	0	20.97	20.93	20.89
		64QAM	1	0	21.12	20.68	20.70
			1	24	21.18	20.80	20.72
			1	49	21.15	20.74	20.75
			25	0	19.92	19.85	19.87
			25	12	19.90	19.86	19.90
			25	24	19.95	19.86	19.85
			50	0	20.01	19.88	19.90

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20825	21100	21375
					2507.5MHz	2535MHz	2562.5MHz
Band 7	15	QPSK	1	0	23.03	22.88	22.87
			1	37	23.01	23.06	23.02
			1	74	22.91	23.00	22.88
			36	0	21.90	21.91	21.84
			36	16	21.92	21.95	21.88
			36	35	21.93	21.92	21.88
			75	0	21.99	22.00	21.99
		16QAM	1	0	22.16	21.61	21.87
			1	37	22.13	21.74	21.98
			1	74	21.99	21.72	21.98
			36	0	20.94	20.88	20.86
			36	16	20.92	20.86	20.92
			36	35	20.97	20.88	20.88
			75	0	20.93	20.89	20.87
		64QAM	1	0	21.13	21.00	20.70
			1	37	21.10	21.16	20.86
			1	74	20.99	21.00	20.77
			36	0	19.91	19.92	19.96
			36	16	19.88	19.86	19.96
			36	35	19.93	19.92	19.92
			75	0	19.93	19.94	19.90

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					20850	21100	21350
					2510MHz	2535MHz	2560MHz
Band 7	20	QPSK	1	0	22.96	22.73	22.81
			1	49	23.16	23.04	23.10
			1	99	22.92	22.94	22.91
			50	0	21.86	21.94	21.92
			50	24	21.89	21.90	21.88
			50	49	21.86	21.93	21.92
			100	0	21.89	21.96	21.83
		16QAM	1	0	22.01	21.53	21.71
			1	49	22.21	21.85	22.00
			1	99	22.04	21.69	21.74
			50	0	20.90	20.92	20.83
			50	24	20.89	20.94	20.83
			50	49	20.85	20.92	20.85
			100	0	20.86	20.95	20.85
		64QAM	1	0	21.12	20.53	20.91
			1	49	21.30	20.79	21.16
			1	99	21.10	20.68	21.05
			50	0	19.97	19.93	19.88
			50	24	19.90	19.91	19.85
			50	49	19.90	19.93	19.89
			100	0	19.92	19.95	19.88

LTE Band 12 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23017	23095	23175
					699.7MHz	707.5MHz	715.3MHz
Band 12	1.4	QPSK	1	0	23.33	23.35	23.33
			1	2	23.39	23.36	23.41
			1	5	23.35	23.32	23.40
			3	0	23.48	23.47	23.46
			3	1	23.48	23.49	23.50
			3	2	23.53	23.47	23.50
			6	0	22.51	22.60	22.61
		16QAM	1	0	22.20	22.13	22.14
			1	2	22.32	22.17	22.17
			1	5	22.29	22.10	22.11
			3	0	22.32	22.33	22.30
			3	1	22.32	22.29	22.30
			3	2	22.32	22.33	22.34
			6	0	21.58	21.53	21.57
		64QAM	1	0	21.70	21.53	21.65
			1	2	21.76	21.60	21.59
			1	5	21.74	21.60	21.62
			3	0	21.55	21.64	21.70
			3	1	21.56	21.65	21.69
			3	2	21.58	21.65	21.69
			6	0	20.41	20.50	20.53

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
Band 12	3	QPSK	1	0	23.17	23.14	23.22
			1	7	23.43	23.25	23.32
			1	14	23.31	23.07	23.30
			8	0	22.39	22.41	22.42
			8	4	22.46	22.39	22.42
			8	7	22.44	22.41	22.47
			15	0	22.53	22.45	22.43
		16QAM	1	0	22.00	22.12	22.10
			1	7	22.18	22.33	22.18
			1	14	22.08	22.21	22.03
			8	0	21.45	21.37	21.42
			8	4	21.44	21.38	21.43
			8	7	21.46	21.36	21.37
			15	0	21.40	21.45	21.38
		64QAM	1	0	21.46	21.14	21.09
			1	7	21.65	21.31	21.21
			1	14	21.50	21.23	21.07
			8	0	20.43	20.39	20.38
			8	4	20.42	20.36	20.39
			8	7	20.47	20.48	20.51
			15	0	20.51	20.54	20.48

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
Band 12	5	QPSK	1	0	23.51	23.42	23.43
			1	12	23.68	23.57	23.63
			1	24	23.49	23.51	23.47
			12	0	22.48	22.43	22.54
			12	6	22.48	22.41	22.52
			12	11	22.56	22.43	22.52
			25	0	22.45	22.41	22.56
		16QAM	1	0	22.52	22.38	22.41
			1	12	22.69	22.55	22.60
			1	24	22.61	22.46	22.46
			12	0	21.49	21.45	21.50
			12	6	21.53	21.39	21.54
			12	11	21.52	21.40	21.55
			25	0	21.49	21.51	21.60
		64QAM	1	0	22.00	21.60	21.28
			1	12	22.11	21.75	21.45
			1	24	21.95	21.71	21.28
			12	0	20.56	20.52	20.56
			12	6	20.60	20.50	20.57
			12	11	20.58	20.51	20.61
			25	0	20.54	20.52	20.59

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23060	23095	23130
					704MHz	707.5MHz	711MHz
Band 12	10	QPSK	1	0	23.56	23.45	23.45
			1	24	23.53	23.47	23.55
			1	49	23.53	23.53	23.61
			25	0	22.48	22.42	22.51
			25	12	22.37	22.38	22.54
			25	24	22.45	22.35	22.56
			50	0	22.55	22.45	22.57
		16QAM	1	0	22.23	22.46	22.31
			1	24	22.37	22.55	22.50
			1	49	22.39	22.59	22.36
			25	0	21.44	21.40	21.60
			25	12	21.42	21.33	21.57
			25	24	21.48	21.36	21.59
			50	0	21.53	21.46	21.61
		64QAM	1	0	21.69	21.34	21.27
			1	24	21.76	21.41	21.38
			1	49	21.74	21.55	21.39
			25	0	20.48	20.44	20.61
			25	12	20.44	20.37	20.60
			25	24	20.43	20.43	20.59
			50	0	20.59	20.41	20.57

LTE Band 13 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23205	23230	23255
					779.5	782	784.5
Band 13	5	QPSK	1	0	23.54	23.59	23.56
			1	12	23.77	23.72	23.64
			1	24	23.59	23.54	23.49
			12	0	22.55	22.51	22.56
			12	6	22.61	22.56	22.51
			12	11	22.62	22.54	22.54
			25	0	22.64	22.59	22.62
		16QAM	1	0	22.53	22.61	22.59
			1	12	22.68	22.75	22.75
			1	24	22.55	22.53	22.60
			12	0	21.59	21.58	21.56
			12	6	21.60	21.53	21.62
			12	11	21.57	21.55	21.58
			25	0	21.72	21.65	21.58
		64QAM	1	0	21.65	21.36	21.98
			1	12	21.90	21.49	22.08
			1	24	21.80	21.39	21.96
			12	0	20.73	20.62	20.61
			12	6	20.72	20.62	20.59
			12	11	20.73	20.67	20.59
			25	0	20.65	20.70	20.62

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
						23230	
						782	
Band 13	10	QPSK	1	0	/	23.64	/
			1	24	/	23.66	/
			1	49	/	23.67	/
			25	0	/	22.60	/
			25	12	/	22.53	/
			25	24	/	22.59	/
			50	0	/	22.69	/
		16QAM	1	0	/	22.45	/
			1	24	/	22.51	/
			1	49	/	22.49	/
			25	0	/	21.67	/
			25	12	/	21.61	/
			25	24	/	21.62	/
			50	0	/	21.62	/
		64QAM	1	0	/	21.81	/
			1	24	/	21.86	/
			1	49	/	21.85	/
			25	0	/	20.57	/
			25	12	/	20.62	/
			25	24	/	20.60	/
			50	0	/	20.59	/

LTE Band 17 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23755	23790	23825
					706.5MHz	710.0MHz	713.5MHz
Band 17	5	QPSK	1	0	23.59	23.51	23.59
			1	12	23.75	23.69	23.72
			1	24	23.61	23.57	23.69
			12	0	22.56	22.64	22.66
			12	6	22.57	22.60	22.67
			12	11	22.58	22.63	22.68
			25	0	22.65	22.68	22.72
		16QAM	1	0	22.58	22.58	22.50
			1	12	22.67	22.73	22.64
			1	24	22.62	22.64	22.52
			12	0	21.51	21.67	21.71
			12	6	21.56	21.68	21.69
			12	11	21.54	21.67	21.69
			25	0	21.68	21.70	21.69
		64QAM	1	0	21.39	21.98	21.76
			1	12	21.58	22.12	21.95
			1	24	21.46	22.07	21.78
			12	0	20.61	20.74	20.75
			12	6	20.59	20.67	20.78
			12	11	20.63	20.69	20.70
			25	0	20.73	20.68	20.78

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					23780	23790	23800
					709.0MHz	710.0MHz	711.0MHz
Band 17	10	QPSK	1	0	23.64	23.60	23.67
			1	24	23.72	23.59	23.66
			1	49	23.73	23.64	23.79
			25	0	22.58	22.64	22.67
			25	12	22.58	22.60	22.66
			25	24	22.60	22.57	22.65
			50	0	22.72	22.65	22.72
		16QAM	1	0	22.44	22.58	22.43
			1	24	22.53	22.72	22.57
			1	49	22.59	22.69	22.55
			25	0	21.63	21.59	21.75
			25	12	21.62	21.59	21.79
			25	24	21.60	21.56	21.73
			50	0	21.72	21.64	21.71
		64QAM	1	0	21.79	21.42	21.45
			1	24	21.87	21.51	21.58
			1	49	21.94	21.63	21.58
			25	0	20.59	20.61	20.70
			25	12	20.62	20.65	20.71
			25	24	20.67	20.65	20.72
			50	0	20.70	20.65	20.75

LTE Band 25 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26047	26365	26683
					1850.7	1882.5	1914.3
Band 25	1.4	QPSK	1	0	23.48	23.92	23.88
			1	2	23.54	23.88	23.89
			1	5	23.50	23.87	23.91
			3	0	23.64	24.05	24.01
			3	1	23.67	24.08	24.00
			3	2	23.66	24.03	23.99
			6	0	22.61	23.02	23.03
		16QAM	1	0	22.26	22.80	22.67
			1	2	22.27	22.87	22.72
			1	5	22.25	22.75	22.69
			3	0	22.40	22.86	22.81
			3	1	22.42	22.87	22.84
			3	2	22.37	22.81	22.81
			6	0	21.63	22.11	21.86
		64QAM	1	0	21.76	22.26	21.69
			1	2	21.77	22.28	21.78
			1	5	21.76	22.23	21.73
			3	0	21.85	22.13	21.96
			3	1	21.82	22.09	21.93
			3	2	21.78	22.15	21.90
			6	0	20.61	20.97	20.89

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26055	26365	26675
					1851.5	1882.5	1913.5
Band 25	3	QPSK	1	0	23.31	23.69	23.67
			1	7	23.42	23.85	23.80
			1	14	23.37	23.69	23.73
			8	0	22.50	22.84	22.87
			8	4	22.53	22.86	22.84
			8	7	22.56	22.94	22.92
			15	0	22.57	22.99	22.94
		16QAM	1	0	22.09	22.65	22.50
			1	7	22.19	22.80	22.64
			1	14	22.09	22.78	22.56
			8	0	21.53	21.92	21.85
			8	4	21.53	21.90	21.87
			8	7	21.61	21.93	21.90
			15	0	21.52	21.93	21.88
		64QAM	1	0	21.67	21.63	21.48
			1	7	21.78	21.79	21.68
			1	14	21.59	21.67	21.59
			8	0	20.52	20.95	20.92
			8	4	20.52	20.93	20.90
			8	7	20.59	20.99	20.95
			15	0	20.58	21.06	21.00

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26065	26365	26665
					1852.5	1882.5	1912.5
Band 25	5	QPSK	1	0	23.66	24.03	23.90
			1	12	23.72	24.20	24.03
			1	24	23.64	24.01	23.97
			12	0	22.67	22.99	23.04
			12	6	22.61	23.01	23.01
			12	11	22.62	23.04	22.92
			25	0	22.65	23.03	22.99
		16QAM	1	0	22.49	22.93	22.95
			1	12	22.64	23.08	23.11
			1	24	22.57	22.93	22.98
			12	0	21.74	21.97	22.13
			12	6	21.75	21.99	22.12
			12	11	21.74	22.02	21.94
			25	0	21.81	22.04	21.99
		64QAM	1	0	21.80	21.76	22.32
			1	12	21.97	21.95	22.45
			1	24	21.85	21.83	22.40
			12	0	20.77	21.11	21.21
			12	6	20.76	21.13	21.20
			12	11	20.79	21.10	21.04
			25	0	20.80	21.10	21.10

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26090	26365	26640
					1855	1882.5	1910
Band 25	10	QPSK	1	0	23.58	23.94	23.89
			1	24	23.69	24.01	23.94
			1	49	23.63	24.00	23.97
			25	0	22.59	22.92	23.06
			25	12	22.58	22.91	22.96
			25	24	22.61	22.95	22.80
			50	0	22.65	23.03	22.97
		16QAM	1	0	22.74	23.17	23.07
			1	24	22.88	23.20	23.13
			1	49	22.84	23.26	23.13
			25	0	21.74	21.94	22.05
			25	12	21.76	21.97	22.07
			25	24	21.75	22.04	21.86
			50	0	21.74	22.02	21.92
		64QAM	1	0	21.68	21.98	21.95
			1	24	21.78	22.00	22.06
			1	49	21.79	22.07	22.00
			25	0	20.67	21.06	21.07
			25	12	20.73	21.05	21.10
			25	24	20.74	21.12	20.90
			50	0	20.76	21.04	21.01

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26115	26365	26615
					1857.5	1882.5	1907.5
Band 25	15	QPSK	1	0	23.54	23.91	23.82
			1	37	23.76	24.08	23.99
			1	74	23.69	23.99	23.99
			36	0	21.91	21.97	22.22
			36	16	22.11	22.08	22.30
			36	35	22.10	22.02	22.28
			75	0	22.71	22.99	22.91
		16QAM	1	0	22.85	23.13	23.20
			1	37	22.98	23.29	23.25
			1	74	23.01	23.17	23.25
			36	0	21.96	21.93	22.20
			36	16	22.13	22.09	22.28
			36	35	22.13	22.02	22.28
			75	0	21.77	21.97	21.91
		64QAM	1	0	21.94	21.96	22.23
			1	37	22.14	22.04	22.29
			1	74	22.15	22.01	22.21
			36	0	21.90	21.91	22.20
			36	16	22.13	22.11	22.29
			36	35	22.06	22.01	22.25
			75	0	20.79	21.04	20.97

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26140	26365	26590
					1860	1882.5	1905
Band 25	20	QPSK	1	0	23.48	23.90	23.92
			1	49	23.79	24.12	24.07
			1	99	23.70	24.06	23.96
			50	0	22.66	22.87	22.83
			50	24	22.66	22.95	22.82
			50	49	22.72	22.99	22.70
			100	0	22.71	22.95	22.77
		16QAM	1	0	22.69	22.95	23.12
			1	49	22.97	23.17	23.24
			1	99	22.89	23.09	23.14
			50	0	21.78	21.90	21.80
			50	24	21.77	21.91	21.83
			50	49	21.88	22.01	21.77
			100	0	21.76	21.98	21.75
		64QAM	1	0	21.84	22.27	22.22
			1	49	22.14	22.54	22.36
			1	99	22.00	22.36	22.24
			50	0	20.77	21.03	20.94
			50	24	20.83	21.01	20.97
			50	49	20.93	21.09	20.78
			100	0	20.82	21.04	20.84

LTE Band 26 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26697	26865	27033
					814.7MHz	831.5MHz	848.3MHz
Band 26	1.4	QPSK	1	0	23.66	23.71	23.75
			1	2	23.66	23.72	23.81
			1	5	23.70	23.70	23.71
			3	0	23.80	23.83	23.87
			3	1	23.82	23.85	23.88
			3	2	23.77	23.81	23.91
			6	0	22.85	22.86	22.93
		16QAM	1	0	22.83	22.74	22.67
			1	2	22.86	22.74	22.72
			1	5	22.84	22.69	22.67
			3	0	22.72	22.72	22.73
			3	1	22.68	22.68	22.68
			3	2	22.70	22.67	22.66
			6	0	21.78	21.86	22.01
		64QAM	1	0	21.83	21.96	22.19
			1	2	21.90	21.98	22.21
			1	5	21.84	22.03	22.14
			3	0	21.86	21.89	22.17
			3	1	21.84	21.88	22.11
			3	2	21.85	21.86	22.12
			6	0	20.77	20.88	20.95

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26705	26865	27025
					815.5MHz	831.5MHz	847.5MHz
Band 26	3	QPSK	1	0	23.57	23.49	23.48
			1	7	23.66	23.63	23.62
			1	14	23.58	23.59	23.61
			8	0	22.77	22.74	22.73
			8	4	22.78	22.75	22.73
			8	7	22.82	22.81	22.80
			15	0	22.73	22.73	22.73
		16QAM	1	0	22.72	22.69	22.67
			1	7	22.81	22.81	22.81
			1	14	22.67	22.68	22.69
			8	0	21.82	21.82	21.83
			8	4	21.82	21.83	21.85
			8	7	21.84	21.85	21.87
			15	0	21.77	21.79	21.88
		64QAM	1	0	21.78	21.74	21.66
			1	7	21.91	21.86	21.84
			1	14	21.79	21.76	21.75
			8	0	20.84	20.84	20.85
			8	4	20.86	20.85	20.82
			8	7	20.89	20.88	20.87
			15	0	20.84	20.92	20.96

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26715	26865	27015
					816.5MHz	831.5MHz	846.6MHz
Band 26	5	QPSK	1	0	23.83	23.84	23.85
			1	12	23.98	23.98	23.99
			1	24	23.88	23.88	23.88
			12	0	22.82	22.83	22.85
			12	6	22.79	22.82	22.88
			12	11	22.79	22.80	22.83
			25	0	22.85	22.86	22.89
		16QAM	1	0	22.99	22.93	22.87
			1	12	23.16	23.12	23.02
			1	24	23.12	23.09	22.95
			12	0	21.89	21.90	21.94
			12	6	21.91	21.92	21.93
			12	11	21.83	21.85	21.89
			25	0	21.96	21.96	21.96
		64QAM	1	0	22.44	21.96	21.86
			1	12	22.63	22.52	22.02
			1	24	22.48	22.16	21.92
			12	0	20.88	20.93	20.99
			12	6	20.95	20.97	21.02
			12	11	20.90	20.95	20.96
			25	0	20.92	20.95	20.99

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26740	26865	26990
					819MHz	831.5MHz	844MHz
Band 26	10	QPSK	1	0	23.79	23.80	23.81
			1	24	23.87	23.86	23.86
			1	49	23.86	23.86	23.86
			25	0	22.77	22.81	22.87
			25	12	22.78	22.79	22.84
			25	24	22.79	22.82	22.84
			50	0	22.83	22.83	22.84
		16QAM	1	0	22.92	22.92	22.92
			1	24	23.08	23.08	23.08
			1	49	23.06	23.07	23.09
			25	0	21.82	21.83	21.95
			25	12	21.91	21.92	21.96
			25	24	21.87	21.86	21.86
			50	0	21.92	21.89	21.87
		64QAM	1	0	21.97	21.87	21.86
			1	24	21.99	21.96	21.94
			1	49	22.02	22.01	22.00
			25	0	20.83	20.88	20.89
			25	12	20.88	21.01	21.02
			25	24	20.79	20.82	20.87
			50	0	20.98	20.93	20.87

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					26765	26865	26965
					821.5MHz	831.5MHz	841.5MHz
Band 26	15	QPSK	1	0	23.75	23.80	23.77
			1	37	23.86	23.90	23.91
			1	74	23.84	23.89	23.87
			36	0	21.95	22.18	21.82
			36	16	22.12	22.32	22.00
			36	35	22.07	22.25	21.97
			75	0	22.88	22.95	22.90
		16QAM	1	0	23.02	23.04	22.94
			1	37	23.18	23.22	23.11
			1	74	23.11	23.18	23.08
			36	0	22.13	22.18	21.82
			36	16	22.22	22.32	22.03
			36	35	22.13	22.28	21.95
			75	0	21.96	22.00	21.94
		64QAM	1	0	22.03	22.16	21.83
			1	37	22.16	22.32	22.03
			1	74	22.14	22.27	21.94
			36	0	22.11	22.16	21.80
			36	16	22.03	22.34	21.98
			36	35	22.21	22.30	21.95
			75	0	20.96	20.95	20.98

LTE Band 38 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37775	38000	38225
					2572.5MHz	2595MHz	2617.5MHz
Band 38	5	QPSK	1	0	23.29	23.38	23.15
			1	12	23.41	23.48	23.31
			1	24	23.30	23.34	23.15
			12	0	22.39	22.38	22.22
			12	6	22.37	22.32	22.24
			12	11	22.39	22.37	22.23
			25	0	22.36	22.38	22.23
		16QAM	1	0	22.59	22.71	22.44
			1	12	22.75	22.83	22.56
			1	24	22.57	22.70	22.41
			12	0	21.41	21.35	21.31
			12	6	21.40	21.32	21.30
			12	11	21.39	21.37	21.26
			25	0	21.37	21.44	21.29
		64QAM	1	0	21.86	21.70	21.71
			1	12	22.04	21.84	21.82
			1	24	21.89	21.71	21.71
			12	0	20.47	20.36	20.31
			12	6	20.44	20.38	20.36
			12	11	20.43	20.39	20.35
			25	0	20.35	20.40	20.24

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37800	38000	38200
					2575MHz	2595MHz	2615MHz
Band 38	10	QPSK	1	0	23.44	23.43	23.29
			1	24	23.51	23.47	23.33
			1	49	23.44	23.46	23.35
			25	0	22.38	22.41	22.27
			25	12	22.36	22.43	22.27
			25	24	22.38	22.41	22.28
			50	0	22.39	22.46	22.29
		16QAM	1	0	22.50	22.75	22.24
			1	24	22.55	22.81	22.32
			1	49	22.45	22.81	22.26
			25	0	21.40	21.52	21.30
			25	12	21.40	21.52	21.31
			25	24	21.42	21.52	21.28
			50	0	21.35	21.42	21.25
		64QAM	1	0	21.93	21.84	21.20
			1	24	21.98	21.92	21.29
			1	49	21.90	21.86	21.20
			25	0	20.44	20.40	20.20
			25	12	20.44	20.45	20.16
			25	24	20.44	20.49	20.16
			50	0	20.36	20.50	20.20

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37825	38000	38175
					2577.5MHz	2595MHz	2612.5MHz
Band 38	15	QPSK	1	0	23.34	23.33	23.31
			1	37	23.46	23.42	23.39
			1	74	23.38	23.34	23.32
			36	0	22.27	22.36	22.22
			36	16	22.26	22.36	22.25
			36	35	22.23	22.36	22.23
			75	0	22.27	22.37	22.25
		16QAM	1	0	22.33	22.66	22.29
			1	37	22.43	22.79	22.36
			1	74	22.39	22.71	22.34
			36	0	21.22	21.36	21.22
			36	16	21.23	21.38	21.20
			36	35	21.22	21.36	21.21
			75	0	21.28	21.36	21.23
		64QAM	1	0	21.57	21.68	21.53
			1	37	21.74	21.82	21.64
			1	74	21.62	21.79	21.57
			36	0	20.30	20.41	20.25
			36	16	20.29	20.40	20.26
			36	35	20.24	20.37	20.24
			75	0	20.28	20.39	20.22

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					37850	38000	38150
					2580MHz	2595MHz	2610MHz
Band 38	20	QPSK	1	0	23.27	23.20	23.15
			1	49	23.45	23.41	23.29
			1	99	23.36	23.26	23.14
			50	0	22.27	22.27	22.20
			50	24	22.22	22.27	22.22
			50	49	22.28	22.22	22.18
			100	0	22.24	22.27	22.15
		16QAM	1	0	21.91	22.15	22.32
			1	49	22.10	22.38	22.52
			1	99	21.99	22.15	22.34
			50	0	21.29	21.23	21.20
			50	24	21.25	21.20	21.27
			50	49	21.25	21.26	21.25
			100	0	21.28	21.29	21.13
		64QAM	1	0	21.34	21.38	21.28
			1	49	21.54	21.61	21.51
			1	99	21.45	21.40	21.29
			50	0	20.30	20.25	20.23
			50	24	20.34	20.29	20.15
			50	49	20.28	20.25	20.21
			100	0	20.29	20.27	20.16

LTE Band 41 part:

LTE Band	Band-width (MHz)	Modu-lation	RB Size	RB Offset	Average Power (dBm)				
					40065	40355	40640	40750	41215
					2537.5MHz	2566.5MHz	2595.0MHz	2624.0MHz	2652.5MHz
Band 41	5	QPSK	1	0	23.19	23.13	23.24	23.16	23.06
			1	12	23.40	23.29	23.37	23.31	23.17
			1	24	23.29	23.16	23.27	23.20	23.03
			12	0	22.24	22.18	22.28	22.21	22.11
			12	6	22.31	22.21	22.27	22.23	22.11
			12	11	22.27	22.16	22.27	22.19	22.04
			25	0	22.34	22.26	22.31	22.28	22.18
		16QAM	1	0	22.55	22.37	22.56	22.43	22.19
			1	12	22.74	22.53	22.71	22.59	22.31
			1	24	22.58	22.37	22.58	22.44	22.16
			12	0	21.23	21.17	21.23	21.19	21.10
			12	6	21.23	21.20	21.22	21.20	21.16
			12	11	21.24	21.21	21.24	21.22	21.18
			25	0	21.30	21.22	21.33	21.26	21.14
		64QAM	1	0	21.43	21.44	21.47	21.45	21.44
			1	12	21.62	21.62	21.61	21.61	21.61
			1	24	21.51	21.48	21.47	21.47	21.44
			12	0	20.28	20.24	20.29	20.25	20.19
			12	6	20.24	20.21	20.24	20.22	20.17
			12	11	20.25	20.25	20.27	20.26	20.25
			25	0	20.32	20.25	20.33	20.27	20.17

LTE Band	Band-width (MHz)	Modu-lation	RB Size	RB Offset	Average Power (dBm)				
					40090	40365	40640	40915	41190
					2540.0MHz	2567.5MHz	2595.0MHz	2622.5MHz	2650.0MHz
Band 41	10	QPSK	1	0	23.29	23.20	23.34	23.24	23.10
			1	24	23.41	23.32	23.39	23.34	23.22
			1	49	23.34	23.25	23.32	23.27	23.16
			25	0	22.28	22.19	22.34	22.24	22.09
			25	12	22.28	22.20	22.34	22.24	22.11
			25	24	22.27	22.18	22.33	22.23	22.09
			50	0	22.28	22.22	22.37	22.27	22.15
		16QAM	1	0	22.02	21.92	22.52	22.12	21.81
			1	24	22.02	21.95	22.61	22.17	21.88
			1	49	22.01	21.92	22.52	22.12	21.83
			25	0	21.24	21.18	21.38	21.24	21.11
			25	12	21.28	21.21	21.40	21.27	21.13
			25	24	21.24	21.16	21.39	21.23	21.07
			50	0	21.25	21.19	21.36	21.25	21.13
		64QAM	1	0	21.03	20.94	21.59	21.15	20.84
			1	24	21.13	21.04	21.67	21.25	20.95
			1	49	21.04	20.99	21.63	21.20	20.93
			25	0	20.18	20.11	20.33	20.18	20.03
			25	12	20.17	20.10	20.32	20.17	20.02
			25	24	20.15	20.08	20.35	20.17	20.01
			50	0	20.22	20.15	20.35	20.22	20.08

LTE Band	Band-width (MHz)	Modu-lation	RB Size	RB Offset	Average Power (dBm)				
					40115	40375	40640	40900	41165
					2542.5MHz	2568.5MHz	2595.0MHz	2673.5MHz	2647.5MHz
Band 41	15	QPSK	1	0	23.35	23.25	23.29	23.26	23.15
			1	37	23.45	23.39	23.45	23.41	23.32
			1	74	23.34	23.28	23.30	23.28	23.21
			36	0	22.22	22.16	22.29	22.20	22.10
			36	16	22.23	22.18	22.29	22.22	22.13
			36	35	22.22	22.15	22.30	22.20	22.08
			75	0	22.28	22.22	22.36	22.26	22.15
		16QAM	1	0	22.04	21.96	22.47	22.13	21.87
			1	37	22.20	22.15	22.59	22.29	22.09
			1	74	22.09	22.03	22.50	22.19	21.97
			36	0	21.21	21.15	21.28	21.19	21.08
			36	16	21.23	21.15	21.31	21.20	21.06
			36	35	21.22	21.14	21.31	21.19	21.05
			75	0	21.26	21.18	21.38	21.25	21.10
		64QAM	1	0	21.37	21.30	21.52	21.37	21.22
			1	37	21.57	21.50	21.69	21.56	21.42
			1	74	21.44	21.37	21.60	21.45	21.30
			36	0	20.24	20.17	20.28	20.21	20.10
			36	16	20.26	20.18	20.32	20.23	20.10
			36	35	20.25	20.18	20.30	20.22	20.11
			75	0	20.26	20.18	20.36	20.24	20.10

LTE Band	Band-width (MHz)	Modu-lation	RB Size	RB Offset	Average Power (dBm)				
					40140	40390	40640	40890	41140
					2545.0MHz	2570.0MHz	2595.0MHz	2620.0MHz	2645.0MHz
Band 41	20	QPSK	1	0	22.11	22.02	22.25	22.10	21.93
			1	49	23.30	23.24	23.44	23.31	23.18
			1	99	23.12	23.08	23.30	23.15	23.03
			50	0	22.19	22.12	22.34	22.19	22.04
			50	24	22.21	22.16	22.30	22.20	22.10
			50	49	22.23	22.16	22.32	22.21	22.09
			100	0	22.22	22.15	22.29	22.19	22.07
		16QAM	1	0	20.69	20.63	21.25	20.83	20.56
			1	49	21.91	21.86	22.44	22.05	21.81
			1	99	21.69	21.65	22.27	21.86	21.61
			50	0	21.23	21.17	21.30	21.21	21.11
			50	24	21.23	21.16	21.36	21.22	21.08
			50	49	21.22	21.17	21.33	21.22	21.11
			100	0	21.22	21.15	21.28	21.19	21.07
		64QAM	1	0	20.18	20.11	20.17	20.13	20.03
			1	49	21.40	21.31	21.40	21.34	21.22
			1	99	21.17	21.13	21.21	21.15	21.08
			50	0	20.32	20.23	20.31	20.25	20.13
			50	24	20.32	20.23	20.31	20.26	20.14
			50	49	20.29	20.23	20.30	20.25	20.17
			100	0	20.28	20.20	20.29	20.23	20.12

Note:

1. Per KDB 447498 D01v06 section 4.1, the required test channels number is 5 for LTE Band 41.

LTE Band 66 part:

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131979	132322	132665
					1710.70MHz	1745.00MHz	1779.3MHz
Band 66	1.4	QPSK	1	0	23.30	23.43	23.40
			1	2	23.32	23.43	23.49
			1	5	23.37	23.41	23.46
			3	0	23.40	23.46	23.54
			3	1	23.40	23.45	23.55
			3	2	23.41	23.48	23.54
			6	0	22.48	22.57	22.61
		16QAM	1	0	22.06	22.22	22.20
			1	2	22.05	22.25	22.27
			1	5	22.05	22.20	22.21
			3	0	22.14	22.25	22.29
			3	1	22.16	22.24	22.30
			3	2	22.14	22.25	22.29
			6	0	21.50	21.45	21.63
		64QAM	1	0	21.53	21.22	21.68
			1	2	21.55	21.29	21.71
			1	5	21.54	21.24	21.64
			3	0	21.56	21.44	21.71
			3	1	21.56	21.47	21.66
			3	2	21.59	21.40	21.66
			6	0	20.45	20.43	20.59

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131987	132322	132657
					1711.50MHz	1745.00MHz	1778.50MHz
Band 66	3	QPSK	1	0	23.20	23.27	23.26
			1	7	23.32	23.35	23.43
			1	14	23.26	23.23	23.28
			8	0	22.35	22.48	22.46
			8	4	22.30	22.47	22.50
			8	7	22.39	22.44	22.53
			15	0	22.38	22.41	22.50
		16QAM	1	0	22.06	21.94	22.28
			1	7	22.07	22.09	22.42
			1	14	22.06	21.96	22.33
			8	0	21.37	21.41	21.52
			8	4	21.34	21.43	21.53
			8	7	21.40	21.44	21.54
			15	0	21.32	21.37	21.57
		64QAM	1	0	21.05	21.49	21.23
			1	7	21.18	21.54	21.46
			1	14	21.06	21.49	21.33
			8	0	20.38	20.42	20.49
			8	4	20.35	20.41	20.52
			8	7	20.37	20.41	20.54
			15	0	20.35	20.45	20.63

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					131997	132322	132647
					1712.50MHz	1745.00MHz	1777.50MHz
Band 66	5	QPSK	1	0	23.35	23.52	23.56
			1	12	23.53	23.67	23.75
			1	24	23.40	23.53	23.59
			12	0	22.43	22.51	22.56
			12	6	22.44	22.51	22.53
			12	11	22.40	22.53	22.54
			25	0	22.42	22.49	22.58
		16QAM	1	0	22.41	22.37	22.49
			1	12	22.63	22.49	22.69
			1	24	22.46	22.40	22.56
			12	0	21.44	21.58	21.54
			12	6	21.47	21.55	21.58
			12	11	21.46	21.55	21.58
			25	0	21.42	21.60	21.68
		64QAM	1	0	21.87	21.63	21.37
			1	12	22.02	21.81	21.58
			1	24	21.88	21.66	21.38
			12	0	20.50	20.65	20.62
			12	6	20.50	20.60	20.70
			12	11	20.51	20.62	20.68
			25	0	20.46	20.60	20.64

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132022	132322	132622
					1715.00MHz	1745.00MHz	1775.00MHz
Band 66	10	QPSK	1	0	23.48	23.58	23.57
			1	24	23.53	23.58	23.68
			1	49	23.51	23.58	23.63
			25	0	22.39	22.50	22.60
			25	12	22.40	22.52	22.51
			25	24	22.36	22.47	22.56
			50	0	22.42	22.48	22.59
		16QAM	1	0	22.36	22.36	22.54
			1	24	22.36	22.34	22.67
			1	49	22.33	22.29	22.67
			25	0	21.46	21.53	21.59
			25	12	21.48	21.55	21.60
			25	24	21.47	21.54	21.64
			50	0	21.48	21.54	21.65
		64QAM	1	0	21.27	21.70	21.43
			1	24	21.31	21.70	21.55
			1	49	21.28	21.70	21.53
			25	0	20.45	20.54	20.56
			25	12	20.45	20.59	20.65
			25	24	20.47	20.56	20.64
			50	0	20.50	20.53	20.62

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132047	132322	132597
					1717.50MHz	1745.00MHz	1772.50MHz
Band 66	15	QPSK	1	0	23.30	23.56	23.47
			1	37	23.49	23.59	23.68
			1	74	23.48	23.49	23.66
			36	0	22.40	22.56	22.57
			36	16	22.38	22.54	22.51
			36	35	22.40	22.55	22.56
			75	0	22.50	22.57	22.63
		16QAM	1	0	22.42	22.27	22.47
			1	37	22.62	22.37	22.69
			1	74	22.56	22.26	22.63
			36	0	21.47	21.51	21.55
			36	16	21.55	21.52	21.53
			36	35	21.50	21.53	21.59
			75	0	21.51	21.53	21.60
		64QAM	1	0	21.51	21.66	21.37
			1	37	21.61	21.80	21.56
			1	74	21.66	21.65	21.53
			36	0	20.44	20.56	20.60
			36	16	20.46	20.53	20.64
			36	35	20.49	20.56	20.65
			75	0	20.58	20.53	20.59

LTE Band	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Average Power (dBm)		
					132072	132322	132572
					1720.00MHz	1745.00MHz	1770.00MHz
Band 66	20	QPSK	1	0	23.33	23.43	23.37
			1	49	23.52	23.60	23.62
			1	99	23.46	23.40	23.54
			50	0	22.39	22.46	22.41
			50	24	22.38	22.46	22.46
			50	49	22.36	22.46	22.46
			100	0	22.46	22.40	22.48
		16QAM	1	0	22.41	22.23	22.24
			1	49	22.62	22.39	22.52
			1	99	22.52	22.20	22.46
			50	0	21.45	21.59	21.47
			50	24	21.45	21.53	21.48
			50	49	21.48	21.57	21.46
			100	0	21.54	21.44	21.48
		64QAM	1	0	21.52	21.22	21.53
			1	49	21.70	21.39	21.80
			1	99	21.72	21.21	21.77
			50	0	20.55	20.53	20.51
			50	24	20.54	20.58	20.51
			50	49	20.52	20.52	20.48
			100	0	20.57	20.52	20.52

13.4 WLAN 2.4 GHz Band Conducted Power

ANT1

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	16.69	14.97	14.84
CH 06	2437	**17.13**	**15.42**	15.14
CH 11	2462	16.99	15.18	14.99

ANT3

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 b	802.11 g	802.11n (HT20)
CH 01	2412	16.72	15.40	15.62
CH 06	2437	**17.77**	**16.19**	16.14
CH 11	2462	17.39	16.04	15.97

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. Per KDB 248227 D01v02r02, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
   1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
   2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
3. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
4. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.5 WLAN 5.2GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 n20	802.11 ac20
CH 36	5180	14.27	13.63	13.24
CH 40	5200	**14.67**	13.96	13.48
CH 48	5240	14.39	13.68	13.30

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n 40	802.11 ac40
CH 38	5190	13.48	13.26
CH 46	5230	13.41	12.82

Average Power (dBm)		
Channel	Frequency (MHz)	802.11ac 80
CH 42	5210	12.96

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.6 WLAN 5.3GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 n20	802.11 ac20
CH 52	5260	9.66	9.46	9.51
CH 56	5280	9.29	9.90	9.54
CH 64	5320	**9.80**	9.69	9.66

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n 40	802.11 ac40
CH 54	5270	9.44	9.52
CH 62	5310	9.86	9.83

Average Power (dBm)		
Channel	Frequency (MHz)	802.11ac 80
CH 58	5290	9.60

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.7 WLAN 5.6GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 n20	802.11 ac20
CH 100	5500	**14.85**	13.76	13.23
CH 120	5600	14.35	13.31	12.78
CH 140	5700	13.96	13.72	13.19

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n 40	802.11 ac40
CH 102	5510	13.45	13.23
CH 118	5590	13.51	12.78
CH 134	5670	13.64	13.19

Average Power (dBm)		
Channel	Frequency (MHz)	802.11ac 80
CH 106	5530	13.03
CH 122	5610	12.69

Note:

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.8 WLAN 5.8GHz Band Conducted Power

Average Power (dBm)				
Channel	Frequency (MHz)	802.11 a	802.11 n20	802.11 ac20
CH 149	5745	14.75	14.07	13.54
CH 157	5785	**14.76**	14.21	13.75
CH 165	5825	14.67	14.18	13.70

Average Power (dBm)			
Channel	Frequency (MHz)	802.11n 40	802.11 ac40
CH 151	5755	13.69	13.35
CH 159	5795	13.88	13.32

Average Power (dBm)		
Channel	Frequency (MHz)	802.11 ac80
CH 155	5775	13.28

1. Per KDB 248227 D01v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report.
3. Per KDB 248227 D01V02r02 section 2.2, when the EUT in continuously transmitting mode, the actual duty cycle is 100%, so the duty cycle factor is 1.

13.9 Bluetooth Conducted Power

ANT1

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	π/4-DQPSK	8DPSK
CH 00	2402	8.07	8.18	7.93
CH 39	2441	**9.76**	9.36	9.18
CH 78	2480	8.26	7.42	7.20

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
CH 00	2402	3.28	3.35	3.26	3.24
CH 20	2442	4.39	4.45	4.37	4.31
CH 39	2480	3.94	4.19	3.89	3.87

ANT3

Average Power (dBm)				
Channel	Frequency (MHz)	GFSK	π/4-DQPSK	8DPSK
CH 00	2402	**10.16**	9.35	9.14
CH 39	2441	8.87	7.90	7.68
CH 78	2480	9.33	8.57	8.33

Average Power (dBm)					
Channel	Frequency (MHz)	BLE PHY 1M	BLE PHY 2M	BLE Coded PHY S=2	BLE Coded PHY S=8
CH 00	2402	5.70	5.72	5.91	5.86
CH 20	2442	6.07	5.99	5.93	6.21
CH 39	2480	5.57	5.78	5.59	5.57

Note:

1. The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.

14 Exposure Positions Consideration

14.1 EUT Antenna Locations

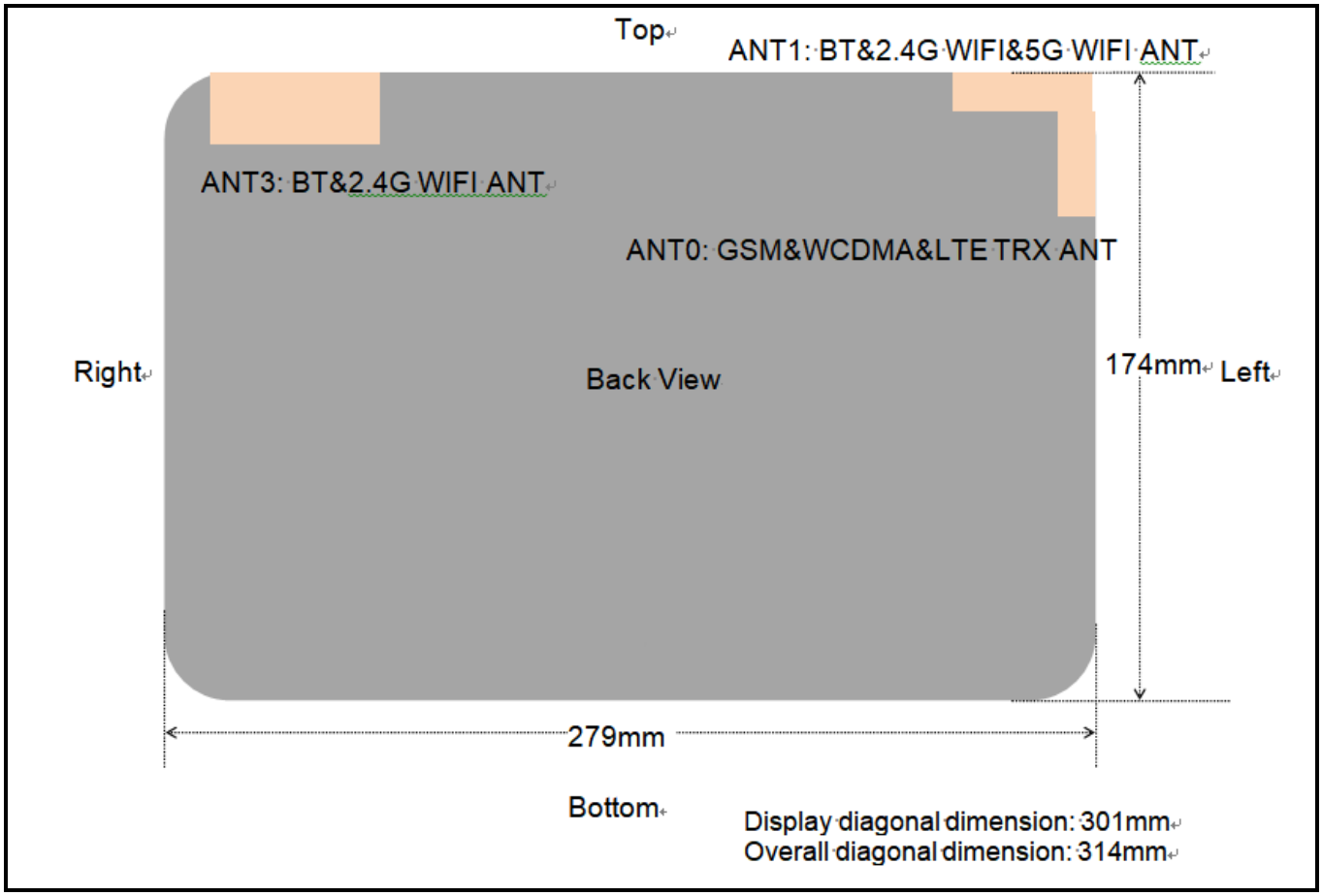


Fig.14.1 EUT Antenna Locations

Note: This antenna diagram is only used as a reference for the distance from the antenna to each edge. For the specific shape of the antenna, please refer to the physical photo.

14.2 Test Positions Consideration

SAR exclusion calculations for antenna < 50mm from the user													
Antennas	Freq. (MHz)	Max. tune-up Power		Distance of Antennas to EUT edge/surface (mm)					Calculated Threshold Value (≦3.0 SAR is not required)				
		dBm	mW	Back	Top	Left	Right	Bott.	Back	Top	Left	Right	Bott.
GSM 850	848.8	26.0	398.1	5	5	5	234	154	73.3	73.3	73.3	>50mm	>50mm
GSM 1900	1880	22.5	177.8	5	5	5	234	154	48.7	48.7	48.7	>50mm	>50mm
WCDMA 850	836.6	24.0	251.2	5	5	5	234	154	45.7	45.7	45.7	>50mm	>50mm
WCDMA 1700	1732.6	23.0	199.5	5	5	5	234	154	52.7	52.7	52.7	>50mm	>50mm
WCDMA 1900	1907.6	24.0	251.2	5	5	5	234	154	69.3	69.3	69.3	>50mm	>50mm
LTE Band 2	1880	24.0	251.2	5	5	5	234	154	68.8	68.8	68.8	>50mm	>50mm
LTE Band 4	1745	24.0	251.2	5	5	5	234	154	66.3	66.3	66.3	>50mm	>50mm
LTE Band 5	844	24.0	251.2	5	5	5	234	154	46.2	46.2	46.2	>50mm	>50mm
LTE Band 7	2510	23.5	223.9	5	5	5	234	154	70.7	70.7	70.7	>50mm	>50mm
LTE Band 12	711	24.0	251.2	5	5	5	234	154	42.2	42.2	42.2	>50mm	>50mm
LTE Band 13	782	24.0	251.2	5	5	5	234	154	44.2	44.2	44.2	>50mm	>50mm
LTE Band 17	711	24.0	251.2	5	5	5	234	154	42.2	42.2	42.2	>50mm	>50mm
LTE Band 25	1882.5	24.5	281.8	5	5	5	234	154	77.2	77.2	77.2	>50mm	>50mm
LTE Band 26	841.5	24.0	251.2	5	5	5	234	154	46.2	46.2	46.2	>50mm	>50mm
LTE Band 38	2580	23.5	223.9	5	5	5	234	154	72.1	72.1	72.1	>50mm	>50mm
LTE Band 41	2595	23.5	223.9	5	5	5	234	154	72.1	72.1	72.1	>50mm	>50mm
LTE Band 66	1770	24.0	251.2	5	5	5	234	154	66.8	66.8	66.8	>50mm	>50mm
2.4G WIFI ANT1	2437	17.5	56.2	5	17	5	271	127	17.5	5.2	17.5	>50mm	>50mm
2.4G WIFI ANT3	2437	18.0	63.1	5	5	216	12	144	19.7	19.7	>50mm	8.2	>50mm
5.2G WIFI	5200	15.0	31.6	5	17	5	271	127	14.4	4.2	14.4	>50mm	>50mm
5.3G WIFI	5320	15.0	31.6	5	17	5	271	127	14.6	4.3	14.6	>50mm	>50mm
5.6G WIFI	5500	15.0	31.6	5	17	5	271	127	14.9	4.4	14.9	>50mm	>50mm
5.8G WIFI	5785	15.0	31.6	5	17	5	271	127	15.2	4.5	15.2	>50mm	>50mm
Bluetooth ANT1	2441	10.0	10.0	5	17	5	271	127	3.1	0.9	3.1	>50mm	>50mm
Bluetooth ANT3	2402	10.5	11.2	5	5	216	12	144	3.5	3.5	>50mm	1.4	>50mm

SAR exclusion calculations for antenna > 50mm from the user													
Antennas	Freq. (MHz)	Max. tune-up Power		Distance of Antennas to EUT edge/surface (mm)					Calculated Threshold Value (SAR test exclusion power, mW)				
		dBm	mW	Back	Top	Left	Right	Bott.	Back	Top	Left	Right	Bott.
GSM 850	848.8	26.0	398.1	5	5	5	234	154	/	/	/	1204.2	751.5
GSM 1900	1880	22.5	177.8	5	5	5	234	154	/	/	/	1949.5	1149.5
WCDMA 850	836.6	24.0	251.2	5	5	5	234	154	/	/	/	1191.1	744.9
WCDMA 1700	1732.6	23.0	199.5	5	5	5	234	154	/	/	/	1953.6	1153.6
WCDMA 1900	1907.6	24.0	251.2	5	5	5	234	154	/	/	/	1948.7	1148.7
LTE Band 2	1880	24.0	251.2	5	5	5	234	154	/	/	/	1949.5	1149.5
LTE Band 4	1745	24.0	251.2	5	5	5	234	154	/	/	/	1953.6	1153.6
LTE Band 5	844	24.0	251.2	5	5	5	234	154	/	/	/	1198.4	748.2
LTE Band 7	2510	23.5	223.9	5	5	5	234	154	/	/	/	1934.9	1134.9
LTE Band 12	711	24.0	251.2	5	5	5	234	154	/	/	/	1050.7	671.5
LTE Band 13	782	24.0	251.2	5	5	5	234	154	/	/	/	1129.7	712.6
LTE Band 17	711	24.0	251.2	5	5	5	234	154	/	/	/	1050.7	671.5
LTE Band 25	1882.5	24.5	281.8	5	5	5	234	154	/	/	/	1949.5	1149.5
LTE Band 26	841.5	24.0	251.2	5	5	5	234	154	/	/	/	1195.3	746.5
LTE Band 38	2580	23.5	223.9	5	5	5	234	154	/	/	/	1933.2	1133.2
LTE Band 41	2595	23.5	223.9	5	5	5	234	154	/	/	/	1933.2	1133.2
LTE Band 66	1770	24.0	251.2	5	5	5	234	154	/	/	/	1952.8	1152.8
2.4G WIFI ANT1	2437	17.5	56.2	5	17	5	271	127	/	/	/	2306.2	866.2
2.4G WIFI ANT3	2437	18.0	63.1	5	5	216	12	144	/	/	1756.2	/	1036.2

5.2G WIFI	5200	15.0	31.6	5	17	5	271	127	/	/	/	2275.8	835.8
5.3G WIFI	5320	15.0	31.6	5	17	5	271	127	/	/	/	2274.9	834.9
5.6G WIFI	5500	15.0	31.6	5	17	5	271	127	/	/	/	2273.8	833.8
5.8G WIFI	5785	15.0	31.6	5	17	5	271	127	/	/	/	2272.2	832.2
Bluetooth ANT1	2441	10.0	10.0	5	17	5	271	127	/	/	/	2306.2	866.2
Bluetooth ANT3	2402	10.5	11.2	5	5	216	12	144	/	/	1756.8	/	1036.8

Test Positions					
Antennas	**Back**	**Top Side**	**Left Side**	**Right Side**	**Bottom Side**
GSM 850	Yes	Yes	Yes	No	No
GSM 1900	Yes	Yes	Yes	No	No
WCDMA 850	Yes	Yes	Yes	No	No
WCMDA 1700	Yes	Yes	Yes	No	No
WCDMA 1900	Yes	Yes	Yes	No	No
LTE Band 2	Yes	Yes	Yes	No	No
LTE Band 4	Yes	Yes	Yes	No	No
LTE Band 5	Yes	Yes	Yes	No	No
LTE Band 7	Yes	Yes	Yes	No	No
LTE Band 12	Yes	Yes	Yes	No	No
LTE Band 13	Yes	Yes	Yes	No	No
LTE Band 17	Yes	Yes	Yes	No	No
LTE Band 25	Yes	Yes	Yes	No	No
LTE Band 26	Yes	Yes	Yes	No	No
LTE Band 38	Yes	Yes	Yes	No	No
LTE Band 41	Yes	Yes	Yes	No	No
LTE Band 66	Yes	Yes	Yes	No	No
2.4G WIFI ANT1	Yes	Yes	Yes	No	No
2.4G WIFI ANT3	Yes	Yes	No	Yes	No
5.2G WIFI	Yes	Yes	Yes	No	No
5.3G WIFI	Yes	Yes	Yes	No	No
5.6G WIFI	Yes	Yes	Yes	No	No
5.8G WIFI	Yes	Yes	Yes	No	No
Bluetooth ANT1	Yes	No	Yes	No	No
Bluetooth ANT3	Yes	Yes	No	No	No

Note:

1. Referring to KDB 616217 D04v01r02, when the overall diagonal dimension of display is > 20 cm, the test distance is 0 mm; the SAR Test Exclusion Threshold in KDB 447498 section 4.3.1 can be applied to determine SAR test exclusion for adjacent edge configurations.
2. The frame-average power was used for the SAR Test Exclusion Threshold calculated for GSM mode.
3. Per KDB 616217 D04v01r02, SAR evaluation for the front surface of tablet display screens is generally not necessary.
4. Per KDB 616217 D04v01r02, additional testing for hotspot SAR is not required.
5. Per KDB 616217 D04v01r02, when the reported SAR with the protrusions in place is > 1.2 W/kg, a KDB inquiry is required to determine if additional SAR measurements in more conservative test configurations are necessary

15 SAR Test Results Summary

15.1 Standalone Body SAR

➢ GSM Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	GPRS850/2 slots	Back	251	848.8	31.53	-0.03	32.0	0.771	1.114	0.859
	GPRS850/2 slots	Left	251	848.8	31.53	0.08	32.0	0.537	1.114	0.598
1	GPRS850/2 slots	Top	251	848.8	31.53	0.03	32.0	**0.865**	1.114	0.964
	GPRS850/2 slots	**Top**	**251**	**848.8**	**31.53**	**0.16**	**32.0**	**0.846**	**1.114**	**0.942**
	GPRS850/2 slots	Back	128	824.2	31.20	-0.04	32.0	0.468	1.202	0.563
	GPRS850/2 slots	Back	190	836.6	31.47	-0.18	32.0	0.625	1.130	0.706
	GPRS850/2 slots	Top	128	824.2	31.20	0.01	32.0	0.789	1.202	0.948
	GPRS850/2 slots	Top	190	836.6	31.47	0.00	32.0	0.847	1.130	0.957
	GPRS1900/2 slots	Back	661	1880	28.38	-0.06	28.5	0.639	1.028	0.657
	GPRS1900/2 slots	Left	661	1880	28.38	-0.07	28.5	0.090	1.028	0.093
	GPRS1900/2 slots	Top	661	1880	28.38	-0.10	28.5	0.901	1.028	0.926
2	GPRS1900/2 slots	Top	512	1850.2	28.14	-0.05	28.5	**0.908**	1.086	0.986
	GPRS1900/2 slots	Top	810	1909.8	28.38	0.03	28.5	0.918	1.028	0.944
	GPRS1900/2 slots	**Top**	**810**	**1909.8**	**28.38**	**0.12**	**28.5**	**0.877**	**1.028**	**0.902**
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ WCDMA Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band II/RMC	Back	9538	1907.6	23.53	-0.18	24.0	0.697	1.114	0.776
	Band II/RMC	Left	9538	1907.6	23.53	-0.02	24.0	0.087	1.114	0.097
	Band II/RMC	Top	9538	1907.6	23.53	-0.05	24.0	0.945	1.114	1.053
	Band II/RMC	**Top**	**9538**	**1907.6**	**23.53**	**-0.03**	**24.0**	**0.915**	**1.114**	**1.019**
3	Band II/RMC	Top	9262	1852.4	23.27	-0.09	24.0	**0.937**	1.183	1.108
	Band II/RMC	Top	9400	1880	23.49	0.01	24.0	0.945	1.125	1.063
	Band IV/RMC	Back	1413	1732.6	22.88	-0.04	23.0	0.811	1.028	0.834
	Band IV/RMC	Left	1413	1732.6	22.88	0.00	23.0	0.095	1.028	0.098
4	Band IV/RMC	Top	1413	1732.6	22.88	-0.02	23.0	**1.120**	1.028	1.151
	Band IV/RMC	**Top**	**1413**	**1732.6**	**22.88**	**-0.14**	**23.0**	**1.070**	**1.028**	**1.100**
	Band IV/RMC	Back	1312	1712.4	22.86	-0.11	23.0	0.775	1.033	0.801
	Band IV/RMC	Back	1513	1752.6	22.87	0.11	23.0	0.807	1.030	0.831
	Band IV/RMC	Top	1312	1712.4	22.86	-0.17	23.0	1.080	1.033	1.116
	Band IV/RMC	Top	1513	1752.6	22.87	0.00	23.0	1.070	1.030	1.102
5	Band V/RMC	Back	4183	836.6	23.88	-0.02	24.0	**1.060**	1.028	1.090
	Band V/RMC	**Back**	**4183**	**836.6**	**23.88**	**-0.04**	**24.0**	**1.010**	**1.028**	**1.038**
	Band V/RMC	Left	4183	836.6	23.88	0.05	24.0	0.660	1.028	0.678
	Band V/RMC	Top	4183	836.6	23.88	0.02	24.0	0.923	1.028	0.949
	Band V/RMC	Back	4132	826.4	23.79	-0.10	24.0	0.766	1.050	0.804
	Band V/RMC	Back	4233	846.6	23.85	-0.05	24.0	0.815	1.035	0.844
	Band V/RMC	Top	4132	826.4	23.79	-0.08	24.0	0.915	1.050	0.961
	Band V/RMC	Top	4233	846.6	23.85	-0.12	24.0	0.870	1.035	0.900
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 2(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band2/1RB#49	Back	18900	1880	23.98	-0.08	24.0	0.686	1.005	0.689
	Band2/1RB#49	Left	18900	1880	23.98	0.08	24.0	0.105	1.005	0.106

	Band2/1RB#49	Top	18900	1880	23.98	0.04	24.0	1.050	1.005	1.055
	Band2/1RB#49	**Top**	**18900**	**1880**	**23.98**	**0.18**	**24.0**	**1.020**	**1.005**	**1.025**
6	Band2/1RB#49	Top	18700	1860	23.62	0.05	24.0	**1.010**	1.091	1.102
	Band2/1RB#49	Top	19100	1900	23.93	0.06	24.0	1.040	1.016	1.057
	Band2/50%RB#0	Back	19100	1900	22.88	-0.06	23.0	0.506	1.028	0.520
	Band2/50%RB#0	Left	19100	1900	22.88	0.07	23.0	0.063	1.028	0.065
	Band2/50%RB#0	Top	19100	1900	22.88	-0.01	23.0	0.710	1.028	0.730
	Band2/100%RB#0	Top	19100	1900	22.86	0.10	23.0	0.668	1.033	0.690
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 4(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band4/1RB#49	Back	20300	1745	23.67	0.17	24.0	0.509	1.079	0.549
	Band4/1RB#49	Left	20300	1745	23.67	-0.12	24.0	0.057	1.079	0.062
	Band4/1RB#49	Top	20300	1745	23.67	0.05	24.0	0.842	1.079	0.909
	Band4/1RB#49	Top	20050	1720	23.51	-0.05	24.0	0.809	1.119	0.905
7	Band4/1RB#49	Top	20175	1732.5	23.47	0.00	24.0	**0.845**	1.130	0.955
	Band4/1RB#49	**Top**	**20175**	**1732.5**	**23.47**	**-0.18**	**24.0**	**0.819**	**1.130**	**0.925**
	Band4/50%RB#0	Back	20300	1745	22.40	-0.05	22.5	0.447	1.023	0.457
	Band4/50%RB#0	Left	20300	1745	22.40	-0.08	22.5	0.044	1.023	0.045
	Band4/50%RB#0	Top	20300	1745	22.40	-0.03	22.5	0.590	1.023	0.604
	Band4/100%RB#0	Top	20175	1732.5	22.47	0.09	22.5	0.526	1.007	0.530
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 5(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band5/1RB#49	Back	20600	844	23.69	-0.16	24.0	0.741	1.074	0.796
	Band5/1RB#49	Left	20600	844	23.69	0.00	24.0	0.869	1.074	0.933
	Band5/1RB#49	Top	20600	844	23.69	-0.02	24.0	0.921	1.074	0.989
	Band5/1RB#24	Left	20450	829	23.62	-0.06	24.0	0.796	1.091	0.868
	Band5/1RB#49	Left	20525	836.5	23.68	-0.07	24.0	0.853	1.076	0.918
8	Band5/1RB#24	Top	20450	829	23.62	0.04	24.0	**0.965**	1.091	1.053
	Band5/1RB#24	**Top**	**20450**	**829**	**23.62**	**0.02**	**24.0**	**0.944**	**1.091**	**1.030**
	Band5/1RB#49	Top	20525	836.5	23.68	0.15	24.0	0.900	1.076	0.968
	Band5/50%RB#0	Back	20600	844	22.59	0.06	23.0	0.475	1.099	0.522
	Band5/50%RB#0	Left	20600	844	22.59	-0.09	23.0	0.729	1.099	0.801
	Band5/50%RB#0	Top	20600	844	22.59	-0.08	23.0	0.737	1.099	0.810
	Band5/50%RB#0	Left	20450	829	22.47	-0.03	23.0	0.713	1.130	0.806
	Band5/50%RB#0	Left	20525	836.5	22.58	-0.13	23.0	0.727	1.102	0.801
	Band5/50%RB#0	Top	20450	829	22.47	0.19	23.0	0.725	1.130	0.819
	Band5/50%RB#0	Top	20525	836.5	22.58	-0.06	23.0	0.731	1.102	0.806
	Band5/100%RB#0	Left	20600	844	22.59	-0.01	23.0	0.707	1.099	0.777
	Band5/100%RB#0	Top	20600	844	22.59	0.07	23.0	0.700	1.099	0.769
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 7(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band7/1RB#49	Back	20850	2510	23.16	0.10	23.5	0.708	1.081	0.765
	Band7/1RB#49	Left	20850	2510	23.16	-0.06	23.5	0.497	1.081	0.537

9	Band7/1RB#49	Top	20850	2510	23.16	-0.05	23.5	**1.050**	1.081	1.135
	Band7/1RB#49	**Top**	**20850**	**2510**	**23.16**	**0.13**	**23.5**	**1.020**	**1.081**	**1.103**
	Band7/1RB#49	Top	21100	2535	23.04	0.08	23.5	0.975	1.112	1.084
	Band7/1RB#49	Top	21350	2560	23.10	-0.05	23.5	0.996	1.096	1.092
	Band7/50%RB#0	Back	21100	2535	21.94	0.06	22.0	0.426	1.014	0.432
	Band7/50%RB#0	Left	21100	2535	21.94	-0.08	22.0	0.404	1.014	0.410
	Band7/50%RB#0	Top	21100	2535	21.94	0.00	22.0	0.741	1.014	0.751
	Band7/100%RB#0	Top	21100	2535	21.96	-0.17	22.0	0.709	1.009	0.715
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 12(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band12/1RB#49	Back	23130	711	23.61	-0.14	24.0	0.377	1.094	0.412
	Band12/1RB#49	Left	23130	711	23.61	0.03	24.0	0.187	1.094	0.205
10	Band12/1RB#49	Top	23130	711	23.61	0.04	24.0	**0.475**	1.094	0.520
	Band12/50%RB#24	Back	23130	711	22.56	-0.13	23.0	0.206	1.107	0.228
	Band12/50%RB#24	Left	23130	711	22.56	0.19	23.0	0.178	1.107	0.197
	Band12/50%RB#24	Top	23130	711	22.56	-0.08	23.0	0.430	1.107	0.476
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 13(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band13/1RB#49	Back	23230	782	23.67	-0.11	24.0	0.497	1.079	0.536
	Band13/1RB#49	Left	23230	782	23.67	0.06	24.0	0.230	1.079	0.248
11	Band13/1RB#49	Top	23230	782	23.67	0.10	24.0	**0.869**	1.079	0.938
	Band13/1RB#49	**Top**	**23230**	**782**	**23.67**	**-0.01**	**24.0**	**0.851**	**1.079**	**0.918**
	Band13/50%RB#0	Back	23230	782	22.60	-0.13	23.0	0.262	1.096	0.287
	Band13/50%RB#0	Left	23230	782	22.60	0.02	23.0	0.185	1.096	0.203
	Band13/50%RB#0	Top	23230	782	22.60	0.04	23.0	0.687	1.096	0.753
	Band13/100%RB#0	Top	23230	782	22.69	-0.06	23.0	0.662	1.074	0.711
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 17(10MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band17/1RB#49	Back	23800	711	23.79	-0.14	24.0	0.474	1.050	0.498
	Band17/1RB#49	Left	23800	711	23.79	-0.04	24.0	0.127	1.050	0.133
	Band17/1RB#49	Top	23800	711	23.79	-0.08	24.0	0.791	1.050	0.831
	Band17/1RB#49	Top	23780	709	23.73	-0.05	24.0	0.763	1.064	0.812
12	Band17/1RB#49	Top	23790	710	23.64	0.17	24.0	**0.929**	1.086	1.009
	Band17/1RB#49	**Top**	**23790**	**710**	**23.64**	**-0.07**	**24.0**	**0.903**	**1.086**	**0.981**
	Band17/50%RB#0	Back	23800	711	22.67	-0.16	23.0	0.245	1.079	0.264
	Band17/50%RB#0	Left	23800	711	22.67	-0.06	23.0	0.092	1.079	0.099
	Band17/50%RB#0	Top	23800	711	22.67	0.03	23.0	0.495	1.079	0.534
	Band17/100%RB#0	Top	23800	711	22.72	0.17	23.0	0.455	1.067	0.485
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 25(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band25/1RB#49	Back	26365	1882.5	24.12	-0.15	24.5	0.552	1.091	0.602
	Band25/1RB#49	Left	26365	1882.5	24.12	-0.14	24.5	0.070	1.091	0.076
	Band25/1RB#49	Top	26365	1882.5	24.12	-0.09	24.5	0.809	1.091	0.883
	Band25/1RB#49	**Top**	**26365**	**1882.5**	**24.12**	**0.05**	**24.5**	**0.802**	**1.091**	**0.875**
13	Band25/1RB#49	Top	26140	1860	23.79	-0.06	24.5	**0.801**	1.178	0.944
	Band25/1RB#49	Top	26590	1905	24.07	0.05	24.5	0.794	1.104	0.877
	Band25/50%RB#49	Back	26365	1882.5	22.99	0.01	23.0	0.489	1.002	0.490
	Band25/50%RB#49	Left	26365	1882.5	22.99	0.02	23.0	0.051	1.002	0.051
	Band25/50%RB#49	Top	26365	1882.5	22.99	-0.04	23.0	0.596	1.002	0.597
	Band25/100%RB#0	Top	26365	1882.5	22.95	0.11	23.0	0.563	1.012	0.570
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ FDD-LTE Band 26(15MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
14	Band26/1RB#37	Back	26965	841.5	23.91	-0.02	24.0	**0.692**	1.021	0.707
	Band26/1RB#37	Left	26965	841.5	23.91	0.00	24.0	0.530	1.021	0.541
	Band26/1RB#37	Top	26965	841.5	23.91	-0.04	24.0	0.549	1.021	0.561
	Band26/50%RB#16	Back	26865	831.5	22.32	-0.03	22.5	0.647	1.042	0.674
	Band26/50%RB#16	Left	26865	831.5	22.32	0.05	22.5	0.432	1.042	0.450
	Band26/50%RB#16	Top	26865	831.5	22.32	-0.05	22.5	0.541	1.042	0.564
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ TDD-LTE Band 38(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	Band38/1RB#49	Back	37850	2580	23.45	0.05	24.0	0.679	1.135	1.008	0.777
	Band38/1RB#49	Left	37850	2580	23.45	-0.06	24.0	0.511	1.135	1.008	0.585
15	Band38/1RB#49	Top	37850	2580	23.45	-0.02	24.0	**0.859**	1.135	1.008	0.983
	Band38/1RB#49	**Top**	**37850**	**2580**	**23.45**	**-0.10**	**24.0**	**0.828**	**1.135**	**1.008**	**0.947**
	Band38/1RB#49	Top	38000	2595	23.41	0.08	24.0	0.846	1.146	1.008	0.977
	Band38/1RB#49	Top	38150	2610	23.29	-0.02	24.0	0.721	1.178	1.008	0.856
	Band38/50%RB#49	Back	37850	2580	22.28	0.03	22.5	0.373	1.052	1.008	0.396
	Band38/50%RB#49	Left	37850	2580	22.28	-0.06	22.5	0.389	1.052	1.008	0.413
	Band38/50%RB#49	Top	37850	2580	22.28	-0.08	22.5	0.628	1.052	1.008	0.666
	Band38/100%RB#0	Top	38000	2595	22.27	0.05	22.5	0.601	1.054	1.008	0.639
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**						

➢ TDD-LTE Band 41(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	Band41/1RB#49	Back	40640	2595	23.44	0.04	23.5	0.807	1.014	1.008	0.825
	Band41/1RB#49	Left	40640	2595	23.44	-0.03	23.5	0.608	1.014	1.008	0.621
	Band41/1RB#49	Top	40640	2595	23.44	0.08	23.5	0.825	1.014	1.008	0.843
	Band41/1RB#49	Top	40140	2545	23.30	-0.13	23.5	0.777	1.047	1.008	0.820
16	Band41/1RB#49	Top	40390	2570	23.24	0.06	23.5	**0.908**	1.062	1.008	0.972
	Band41/1RB#49	**Top**	**40390**	**2570**	**23.24**	**-0.14**	**23.5**	**0.886**	**1.062**	**1.008**	**0.948**
	Band41/1RB#49	Top	40890	2620	23.31	-0.12	23.5	0.622	1.046	1.008	0.656
	Band41/1RB#49	Top	41140	2645	23.18	-0.09	23.5	0.652	1.076	1.008	0.707

	Band41/50%RB#0	Back	40640	2595	22.34	0.00	22.5	0.761	1.038	1.008	0.796
	Band41/50%RB#0	Left	40640	2595	22.34	0.00	22.5	0.488	1.038	1.008	0.511
	Band41/50%RB#0	Top	40640	2595	22.34	-0.09	22.5	0.753	1.038	1.008	0.788
	Band41/100%RB#0	Back	40640	2595	22.29	0.00	22.5	0.703	1.050	1.008	0.744
	Band41/100%RB#0	Top	40640	2595	22.29	-0.09	22.5	0.712	1.050	1.008	0.754
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**						

➢ FDD-LTE Band 66(20MHz) QPSK Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	Reported SAR_{1g} (W/kg)
	Band66/1RB#49	Back	132572	1770	23.62	0.12	24.0	0.410	1.091	0.447
	Band66/1RB#49	Left	132572	1770	23.62	0.09	24.0	0.041	1.091	0.045
17	Band66/1RB#49	Top	132572	1770	23.62	-0.09	24.0	**0.670**	1.091	0.731
	Band66/50%RB#0	Back	132322	1745	22.46	-0.10	22.5	0.350	1.009	0.353
	Band66/50%RB#0	Left	132322	1745	22.46	0.06	22.5	0.023	1.009	0.023
	Band66/50%RB#0	Top	132322	1745	22.46	-0.05	22.5	0.466	1.009	0.470
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**					

➢ WLAN 2.4GHz Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
18	2.4GHz/802.11b	1	Back	6	2437	17.13	-0.03	17.5	**0.315**	1.089	1.000	0.343
	2.4GHz/802.11b	1	Left	6	2437	17.13	-0.04	17.5	0.168	1.089	1.000	0.183
	2.4GHz/802.11b	1	Top	6	2437	17.13	-0.03	17.5	0.008	1.089	1.000	0.009
	2.4GHz/802.11b	3	Back	6	2437	17.77	0.00	18.0	<0.001*	1.054	1.000	<0.001*
	2.4GHz/802.11b	3	Right	6	2437	17.77	0.00	18.0	0.003	1.054	1.000	0.003
	2.4GHz/802.11b	3	Top	6	2437	17.77	0.02	18.0	0.203	1.054	1.000	0.214
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**							

➢ WLAN 5.2GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.2GHz/802.11a	Back	40	5200	14.67	0.00	15.0	0.041	1.079	1.000	0.044
19	5.2GHz/802.11a	Left	40	5200	14.67	0.00	15.0	**0.293**	1.079	1.000	0.316
	5.2GHz/802.11a	Top	40	5200	14.67	0.00	15.0	0.002	1.079	1.000	0.002
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.3GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.3GHz/802.11a	Back	64	5320	9.80	0.00	10.0	0.075	1.047	1.000	0.079
20	5.3GHz/802.11a	Left	64	5320	9.80	0.00	10.0	**0.331**	1.047	1.000	0.347
	5.3GHz/802.11a	Top	64	5320	9.80	0.00	10.0	0.002	1.047	1.000	0.002
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.6GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.6GHz/802.11a	Back	100	5500	14.85	0.00	15.0	0.079	1.035	1.000	0.082
21	5.6GHz/802.11a	Left	100	5500	14.85	-0.02	15.0	**0.282**	1.035	1.000	0.292
	5.6GHz/802.11a	Top	100	5500	14.85	0.00	15.0	0.002	1.035	1.000	0.002
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**						

➢ WLAN 5.8GHz Body SAR

Plot No.	Band/Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
	5.8GHz/802.11a	Back	157	5785	14.76	0.00	15.0	0.124	1.057	1.000	0.131
22	5.8GHz/802.11a	Left	157	5785	14.76	0.03	15.0	**0.370**	1.057	1.000	0.391
	5.8GHz/802.11a	Top	157	5785	14.76	0.00	15.0	<0.001*	1.057	1.000	<0.001*
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					**1.6 W/kg (mW/g) Averaged over 1g**						

➢ Bluetooth Body SAR

Plot No.	Band/Mode	ANT	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (dB)	Tune-Up Limit (dBm)	Meas. SAR_{1g} (W/kg)	Scaling Factor	D.C Factor	Reported SAR_{1g} (W/kg)
23	BT/GFSK	1	Back	39	2441	9.76	0.00	10.0	**0.058**	1.058	1.000	0.061
	BT/GFSK	1	Left	39	2441	9.76	-0.01	10.0	0.006	1.058	1.000	0.006
	BT/GFSK	3	Back	0	2402	10.16	0.00	10.5	<0.001*	1.082	1.000	<0.001*
	BT/GFSK	3	Top	0	2402	10.16	0.00	10.5	0.008	1.082	1.000	0.009
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						**1.6 W/kg (mW/g) Averaged over 1g**						

Note:

1. Per KDB 447498 D01v06, for each exposure position, if the highest output channel Reported SAR ≤0.8W/kg, other channels SAR testing is not necessary.
2. Additional WLAN SAR testing was performed for simultaneous transmission analysis.
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥0.8W/kg.
4. Per KDB 248227 D01v02r02, OFDM SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. Cuz the maximum output power specified for OFDM and DSSS are 34.83mW(15.42dBm) and 51.64mW(17.13dBm), the scaled SAR would be 0.343×(34.83/51.64)=0.231W/Kg < 1.2 W/kg, therefore, SAR is not required for OFDM.
5. According to KDB 865664 D02v01r02, SAR plot is required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
6. Highlight part of test data means repeated test.

15.2 Repeated SAR measurement

Band/ Mode	Test Position	CH.	Freq. (MHz)	Measured SAR (W/kg)				
				Original	1st Repeated		2nd Repeated	
					Value	Ratio	Value	Ratio
GPRS850/2 slots	Top	251	848.8	0.865	0.846	1.022	/	/
GPRS1900/2 slots	Top	810	1909.8	0.918	0.877	1.047	/	/
Band II/RMC	Top	9538	1907.6	0.945	0.915	1.033	/	/
Band IV/RMC	Top	1413	1732.6	1.120	1.070	1.047	/	/
Band V/RMC	Back	4183	836.6	1.060	1.010	1.050	/	/
Band2/1RB#49	Top	18900	1880	1.050	1.020	1.029	/	/
Band4/1RB#49	Top	20175	1732.5	0.845	0.819	1.032	/	/
Band5/1RB#24	Top	20450	829	0.965	0.944	1.022	/	/
Band7/1RB#49	Top	20850	2510	1.050	1.020	1.029	/	/
Band13/1RB#49	Top	23230	782	0.869	0.851	1.021	/	/
Band17/1RB#49	Top	23790	710	0.929	0.903	1.029	/	/
Band25/1RB#49	Top	26365	1882.5	0.809	0.802	1.009	/	/
Band38/1RB#49	Top	37850	2580	0.859	0.828	1.037	/	/
Band41/1RB#49	Top	40390	2570	0.908	0.886	1.025	/	/
ANSI / IEEE C95.1 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				**1.6 W/kg (mW/g) Averaged over 1g**				

Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg
2. Per KDB 865664 D01v01r04, if the ratio of *original* and *repeated* is ≤ 1.2and the measured SAR <1.45W/kg,only one repeated measurement is required.

15.3 Multi-Band Simultaneous Transmission Considerations

➢ **Simultaneous Transmission Capabilities**

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.

Fig.15.1 Simultaneous Transmission Paths

➢ **Multi-Band simultaneous Transmission Consideration**

Simultaneous Transmission Consideration	Position	Applicable Combination
	Body	WWAN (Data) + WLAN 2.4 GHz
		WWAN (Data) + 5.2GHz/5.3GHz/5.6GHz/5.8GHz + Bluetooth

Note:

1. WLAN 2.4GHz Band, WLAN 5.2GHz Band, WLAN 5.3GHz Band, WLAN 5.6GHz Band and WLAN 5.8GHz Band share the same antenna, and cannot transmit simultaneously
2. WLAN 2.4GHz Band and Bluetooth share the same antenna, and cannot transmit simultaneously
3. GSM/WCDMA/LTE shares the same antenna, and cannot transmit simultaneously.
4. The Report SAR summation is calculated based on the same configuration and test position.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
   i. Scalar SAR summation < 1.6 W/kg.
   ii. SPLSR = $(SAR_1 + SAR_2)^{1.5}$ / (*min. separation distance, mm*), and the peak separation distance is determined from the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary
   iii. Simultaneously transmission SAR measurement, and the Reported multi-band SAR < 1.6 W/kg

15.4 SAR Simultaneous Transmission Analysis

➢ **Body mode Simultaneous Transmission**

Position		Standalone SAR(W/kg)				? SAR_{1g} (W/kg)	
		1	2	3	4	1+2	1+3+4
		WWAN	2.4G WLAN	5G WLAN	BT		
Body	Back	1.090	0.343	0.131	0.061	1.433	1.282
	Left	0.933	0.183	0.391	0.006	1.116	1.330
	Right	0.000	0.003	0.000	0.000	0.003	0.000
	Top	1.151	0.214	0.002	0.009	1.365	1.162

➢ **Simultaneous Transmission Conclusion**

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06.

15.5 Measurement Uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528: 2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

15.6 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Industry Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested. Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

16 Reference

[1]. FCC 47 CFR Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”

[2]. ANSI/IEEE Std. C95.1-1992, “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”, September 1992

[3]. IEEE Std. 1528-2013, “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”, Sep 2013

[4]. SPEAG DASY52 System Handbook

[5]. FCC KDB 248227 D01 v02r02, “SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS”, October 2015

[6]. FCC KDB 447498 D01 v06, “RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES”, October 2015

[7]. FCC KDB 616217 D04 v01r02, “SAR EVALUATION CONSIDERATIONS FOR LAPTOP, NOTEBOOK, NETBOOK AND TABLET COMPUTERS”, October 2015

[8]. FCC KDB 648474 D04 v01r03, “SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS”, October 2015

[9]. FCC KDB 941225 D01 v03r01, “3G SAR MEAUREMENT PROCEDURES”, October 2015

[10]. FCC KDB 941225 D03 v01, “Recommended SAR Test Reduction Procedures for GSM / GPRS / EDGE”, December 2008

[11]. FCC KDB 941225 D06 v02r01, " SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES", October 2015

[12]. FCC KDB 865664 D01 v01r04, “SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz”, August 2015

Appendix A: Plots of SAR System Check

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Dipole 750 MHz; Type: D750V3; Serial: SN:1118

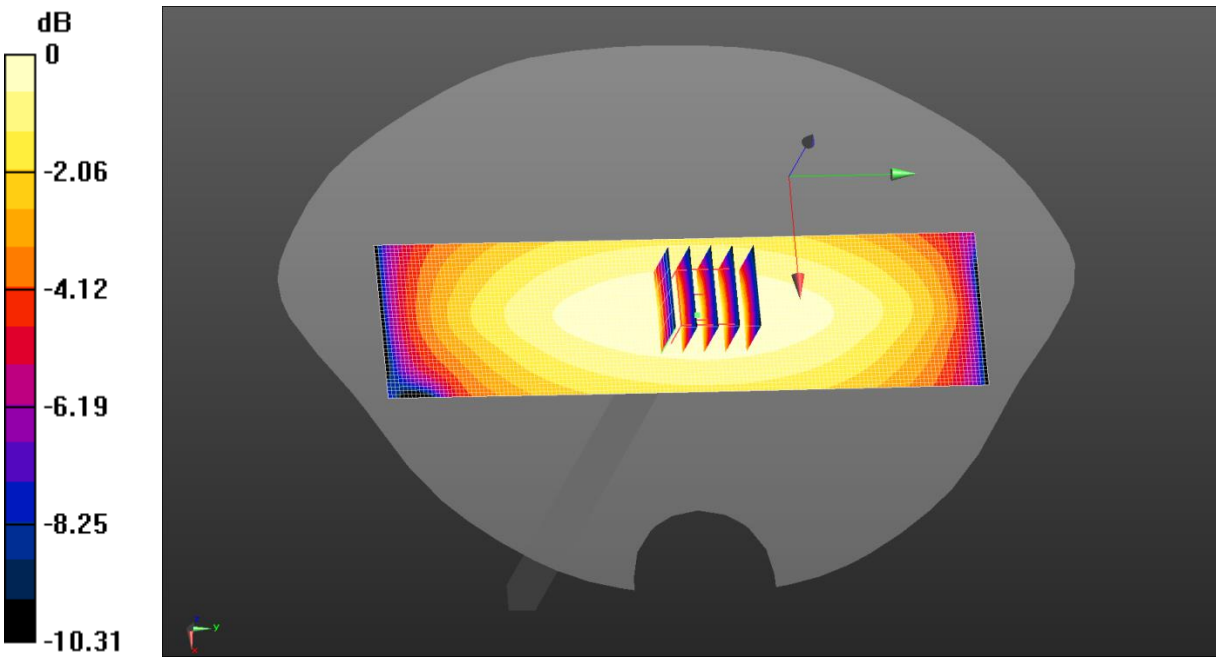
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.896 S/m; ε_r = 41.358; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(10.33, 10.33, 10.33) @ 750 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.01 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.989 W/kg
SAR(1 g) = 0.619 W/kg; SAR(10 g) = 0.409 W/kg
Smallest distance from peaks to all points 3 dB below = 16 mm
Ratio of SAR at M2 to SAR at M1 = 63%
Maximum value of SAR (measured) = 0.850 W/kg

System Performance Check at Frequency750 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x151x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.837 W/kg



0 dB = 0.850 W/kg = -0.71 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Dipole 835 MHz; Type: D835V2; Serial: SN:4D154

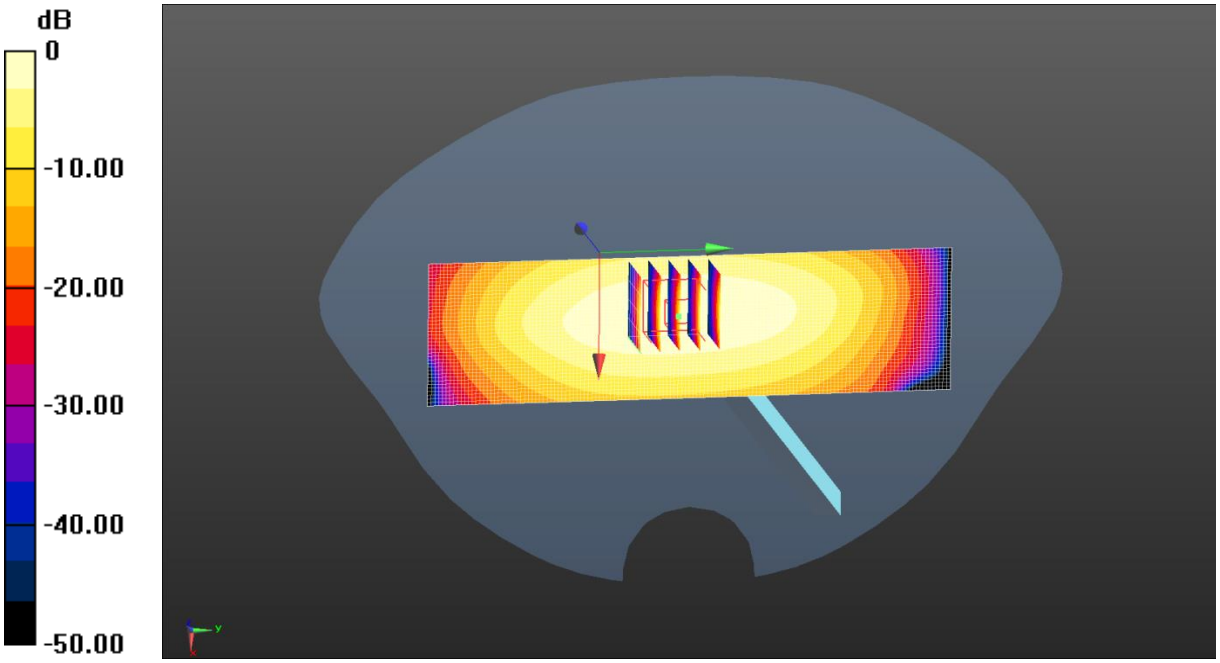
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.882 S/m; ε_r = 41.137; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.93, 9.93, 9.93) @ 835 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Area Scan (41x141x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.955 W/kg

System Performance Check at Frequency835 MHz Head Tissue/d=15mm, Pin=80 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.33 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.17 W/kg
SAR(1 g) = 0.708 W/kg; SAR(10 g) = 0.466 W/kg
Smallest distance from peaks to all points 3 dB below = 17.6 mm
Ratio of SAR at M2 to SAR at M1 = 61.3%
Maximum value of SAR (measured) = 0.985 W/kg



0 dB = 0.955 W/kg = -0.20 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: SN:1177

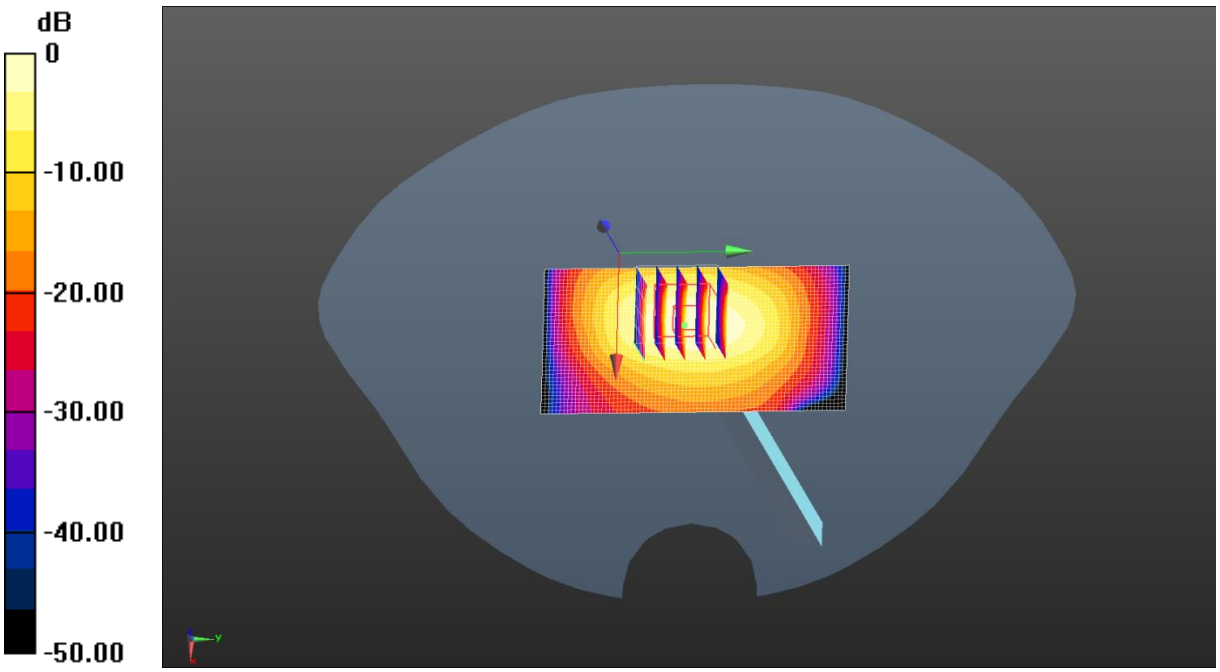
Communication System: UID 0, CW (0); Frequency: 1750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1750 MHz; σ = 1.394 S/m; ε_r = 39.521; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.47, 8.47, 8.47) @ 1750 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.03 W/kg

System Performance Check at Frequency1750 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.15 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.46 W/kg
SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.746 W/kg
Smallest distance from peaks to all points 3 dB below = 10.1 mm
Ratio of SAR at M2 to SAR at M1 = 55.8%
Maximum value of SAR (measured) = 2.07 W/kg



0 dB = 2.03 W/kg = 3.07 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: SN:5d175

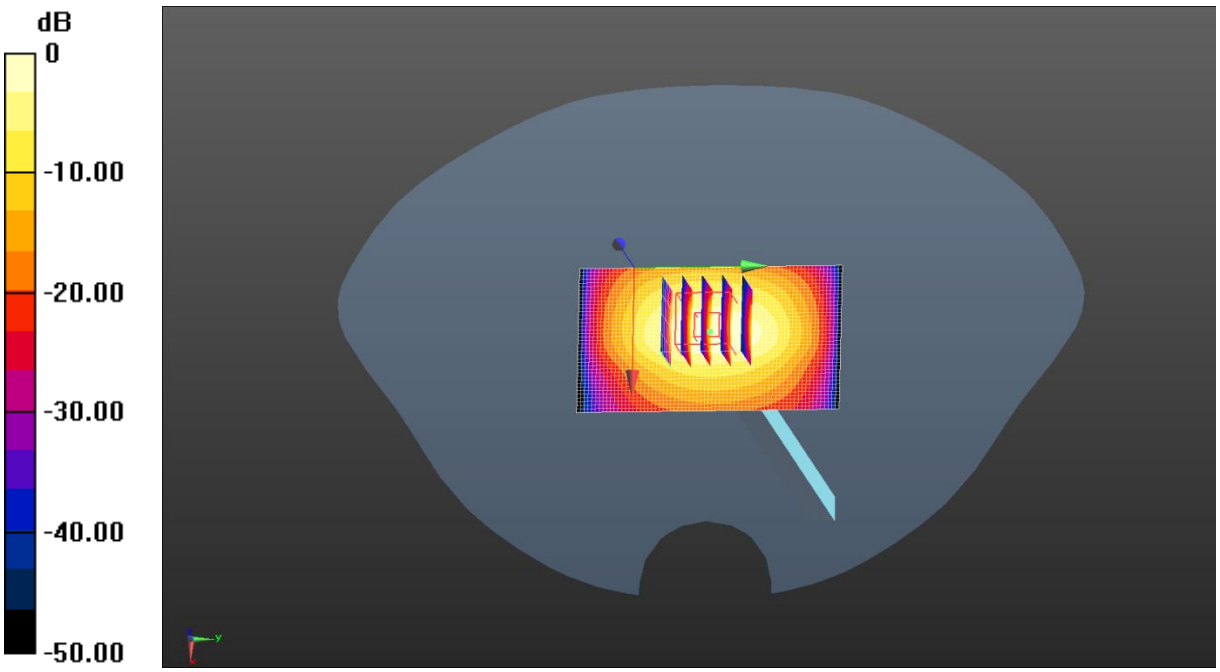
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.464 S/m; ε_r = 39.393; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.13, 8.13, 8.13) @ 1900 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (41x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.58 W/kg

System Performance Check at Frequency1900 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 40.42 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.96 W/kg
SAR(1 g) = 1.64 W/kg; SAR(10 g) = 0.873 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 55.8%
Maximum value of SAR (measured) = 2.51 W/kg



0 dB = 2.58 W/kg = 4.11 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/4

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: SN:910

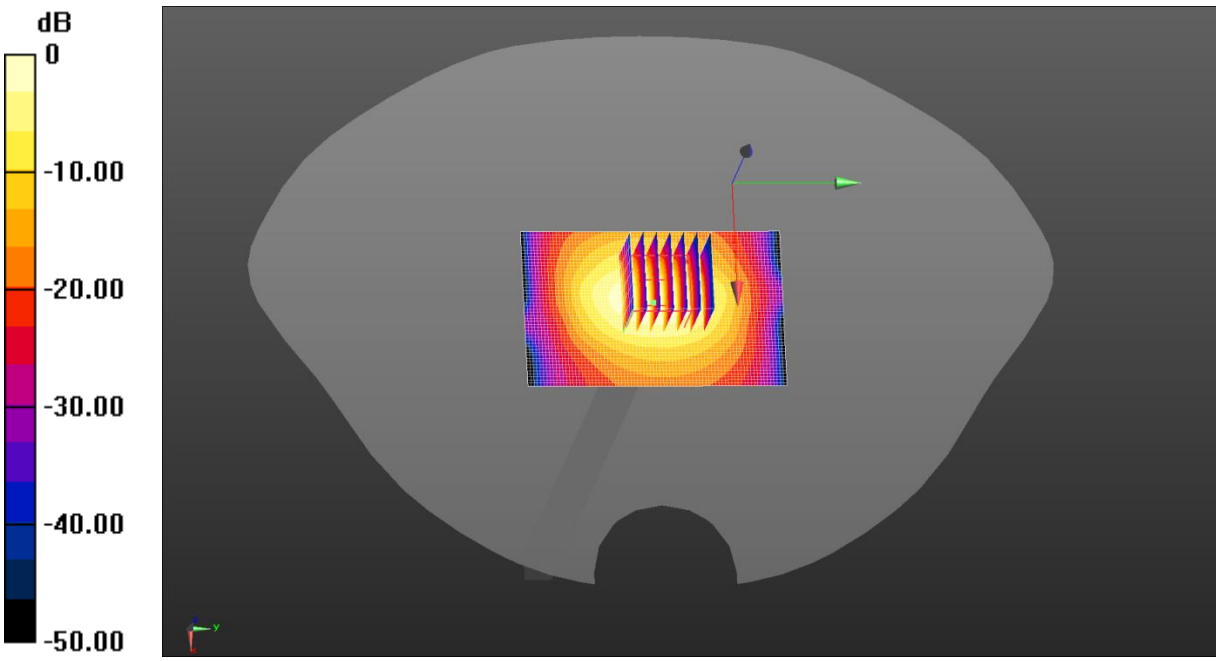
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.872 S/m; ε_r = 38.761; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.61, 7.61, 7.61) @ 2450 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.36 W/kg

System Performance Check at Frequency2450 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 41.53 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 4.11 W/kg
SAR(1 g) = 2.06 W/kg; SAR(10 g) = 0.981 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 52.1%
Maximum value of SAR (measured) = 3.18 W/kg



0 dB = 3.36 W/kg = 5.26 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/7

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: SN:1114

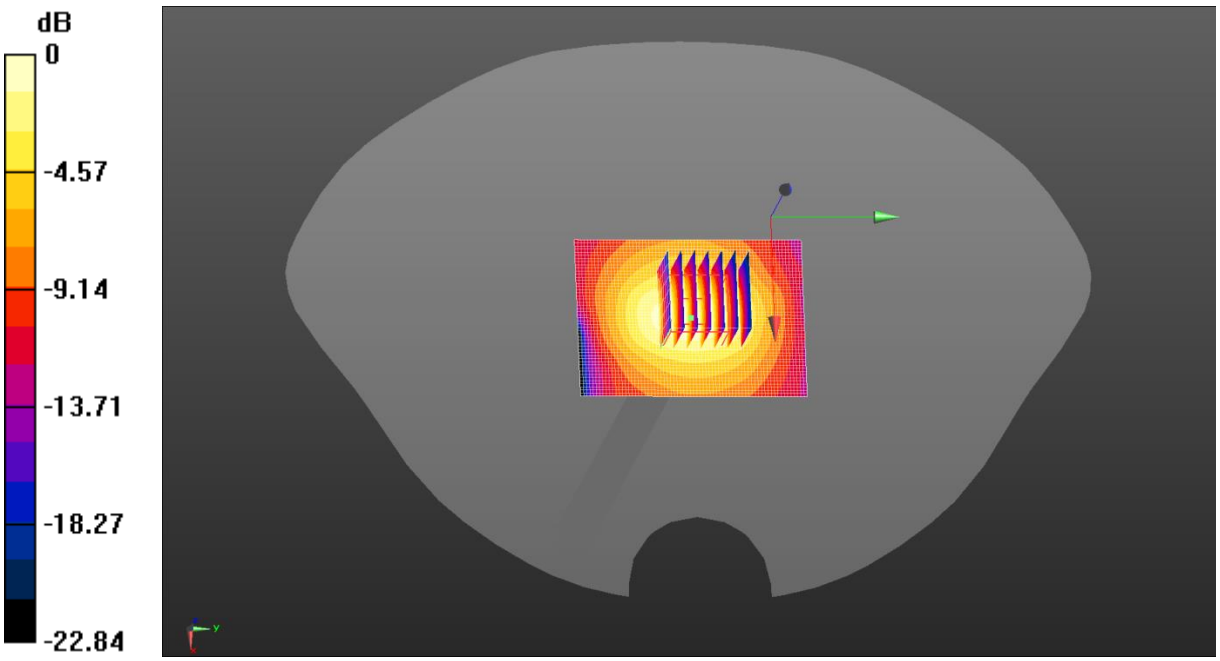
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.991 S/m; ε_r = 38.51; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.46, 7.46, 7.46) @ 2600 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 43.94 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 4.35 W/kg
SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1 W/kg
Smallest distance from peaks to all points 3 dB below = 8.9 mm
Ratio of SAR at M2 to SAR at M1 = 52%
Maximum value of SAR (measured) = 3.32 W/kg

System Performance Check at Frequency2600 MHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (51x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.84 W/kg



0 dB = 3.32 W/kg = 5.21 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/9

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

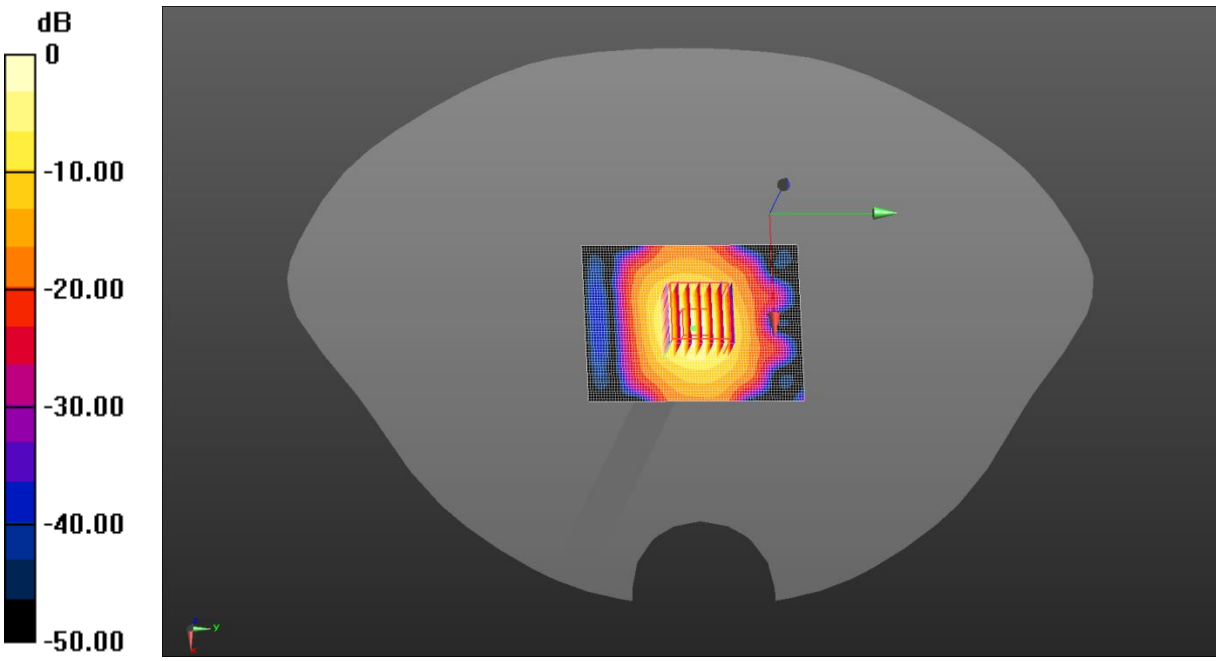
Communication System: UID 0, CW (0); Frequency: 5200 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5200 MHz; σ = 4.845 S/m; ε_r = 36.847; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.35, 5.35, 5.35) @ 5200 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.22 W/kg

System Performance Check at Frequency5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 42.76 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 11.1 W/kg
SAR(1 g) = 2.93 W/kg; SAR(10 g) = 0.822 W/kg
Smallest distance from peaks to all points 3 dB below = 6.8 mm
Ratio of SAR at M2 to SAR at M1 = 57%
Maximum value of SAR (measured) = 7.30 W/kg



0 dB = 7.30 W/kg = 8.63 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/9

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

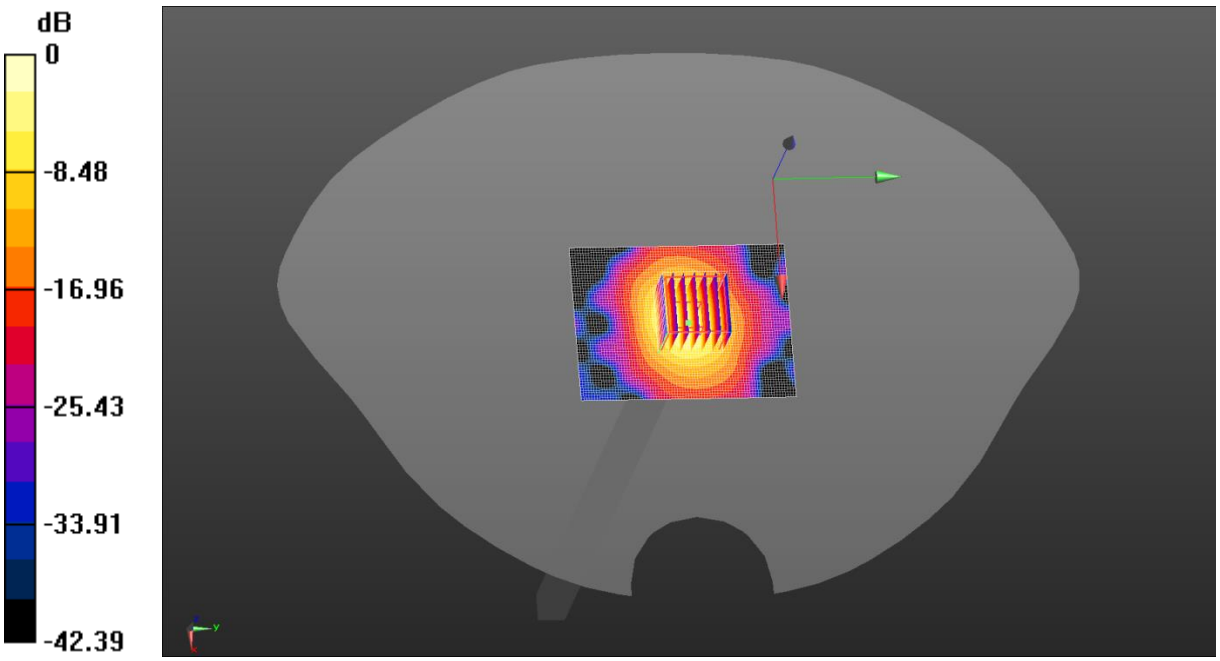
Communication System: UID 0, CW (0); Frequency: 5300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5300 MHz; σ = 4.96 S/m; ε_r = 36.708; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.35, 5.35, 5.35) @ 5300 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.77 W/kg

System Performance Check at Frequency5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 42.31 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 11.9 W/kg
SAR(1 g) = 3.07 W/kg; SAR(10 g) = 0.860 W/kg
Smallest distance from peaks to all points 3 dB below = 6.8 mm
Ratio of SAR at M2 to SAR at M1 = 56%
Maximum value of SAR (measured) = 7.70 W/kg



0 dB = 7.70 W/kg = 8.86 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/12

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

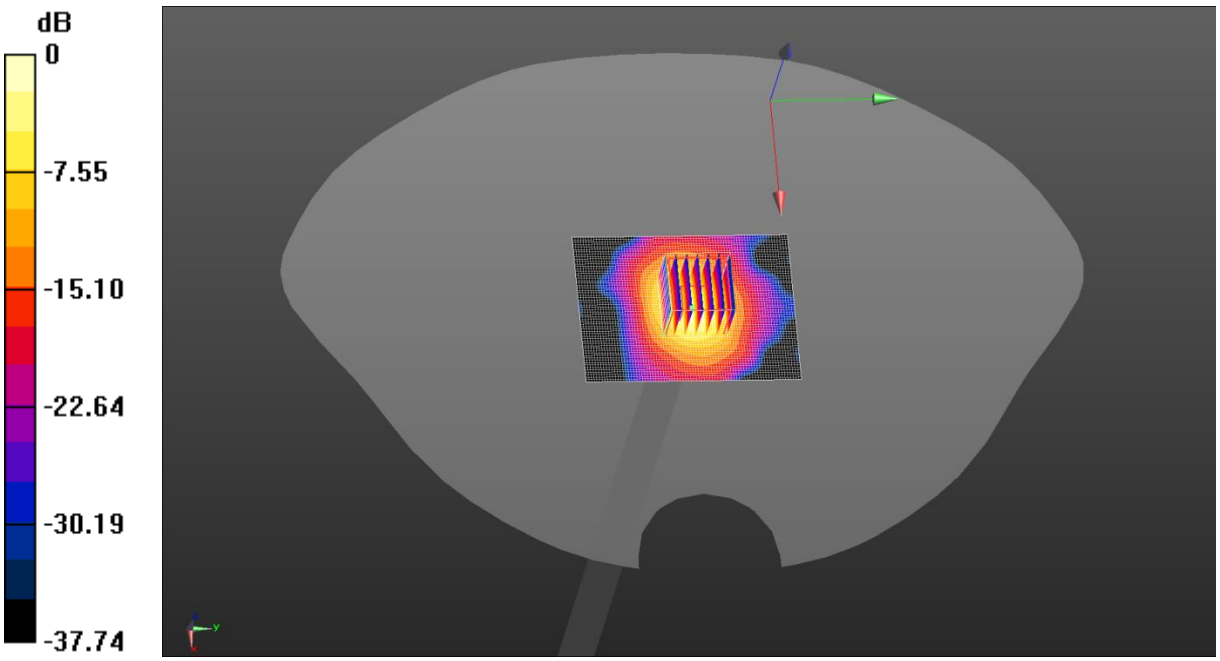
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.195 S/m; ε_r = 36.297; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.8, 4.8, 4.8) @ 5600 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.73 W/kg

System Performance Check at Frequency5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 41.23 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 12.3 W/kg
SAR(1 g) = 3.03 W/kg; SAR(10 g) = 0.845 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 54.2%
Maximum value of SAR (measured) = 7.77 W/kg



0 dB = 7.77 W/kg = 8.90 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/12

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: SN:1320

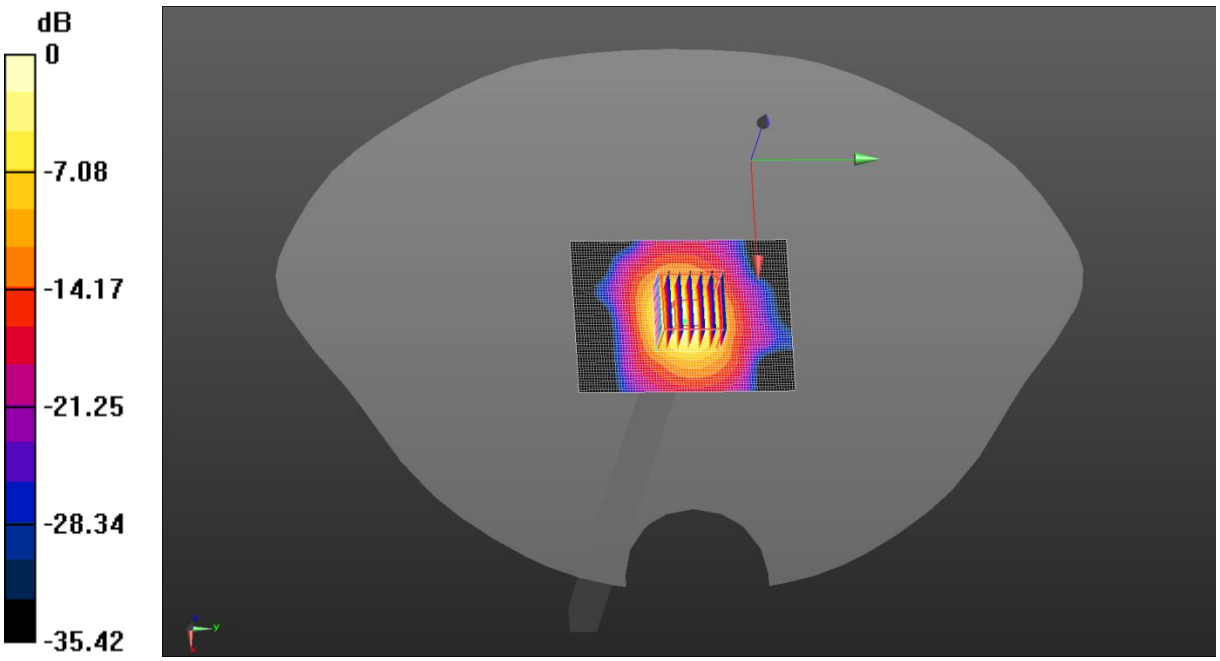
Communication System: UID 0, CW (0); Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.422 S/m; ε_r = 36.01; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.89, 4.89, 4.89) @ 5800 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

System Performance Check at Frequency5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 7.27 W/kg

System Performance Check at Frequency5GHz Head Tissue/d=10mm, Pin=40 mW, dist=1.4mm (EX-Probe)/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 39.34 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 12.2 W/kg
SAR(1 g) = 2.86 W/kg; SAR(10 g) = 0.796 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 52.4%
Maximum value of SAR (measured) = 7.45 W/kg



0 dB = 7.45 W/kg = 8.72 dBW/kg

Appendix B: Plots of SAR Test Data

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

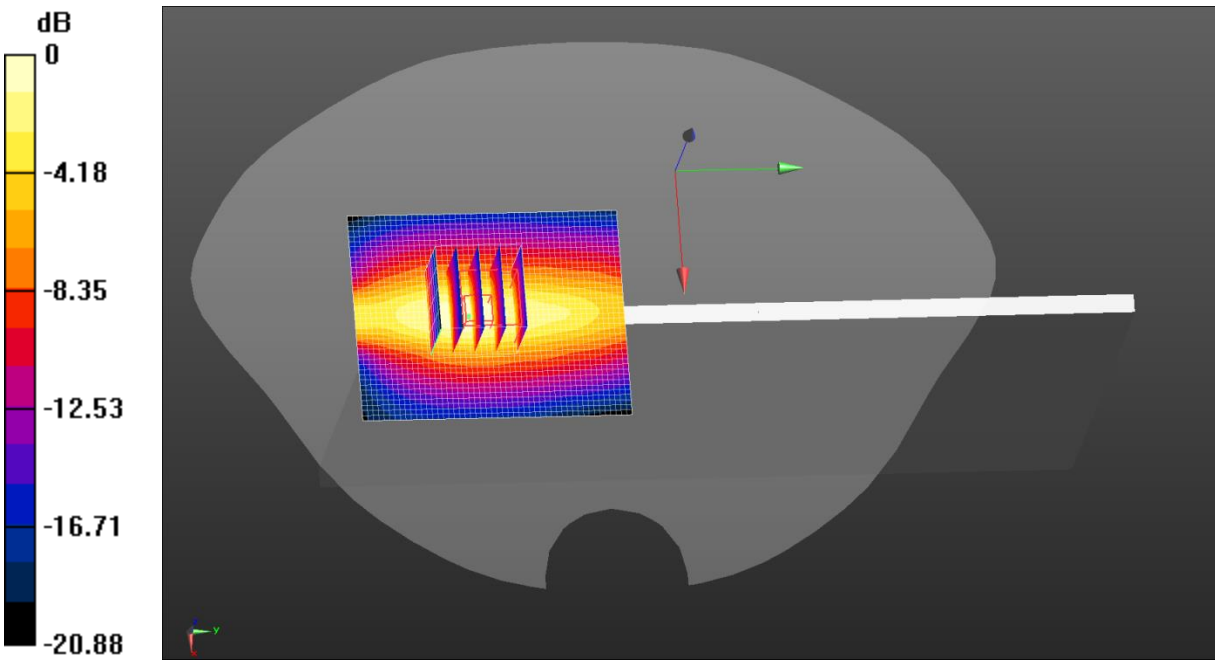
Communication System: UID 0, GPRS(2 Slots) (0); Frequency: 848.8 MHz;Duty Cycle: 1:4.10015
Medium parameters used (interpolated): f = 848.8 MHz; σ = 0.93 S/m; ε_r = 41.103; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.93, 9.93, 9.93) @ 848.8 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM 850 Body Top/High Channel/Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.66 W/kg

GSM 850 Body Top/High Channel/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.88 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 2.12 W/kg
SAR(1 g) = 0.865 W/kg; SAR(10 g) = 0.441 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 41.1%
Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.66 W/kg = 2.21 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

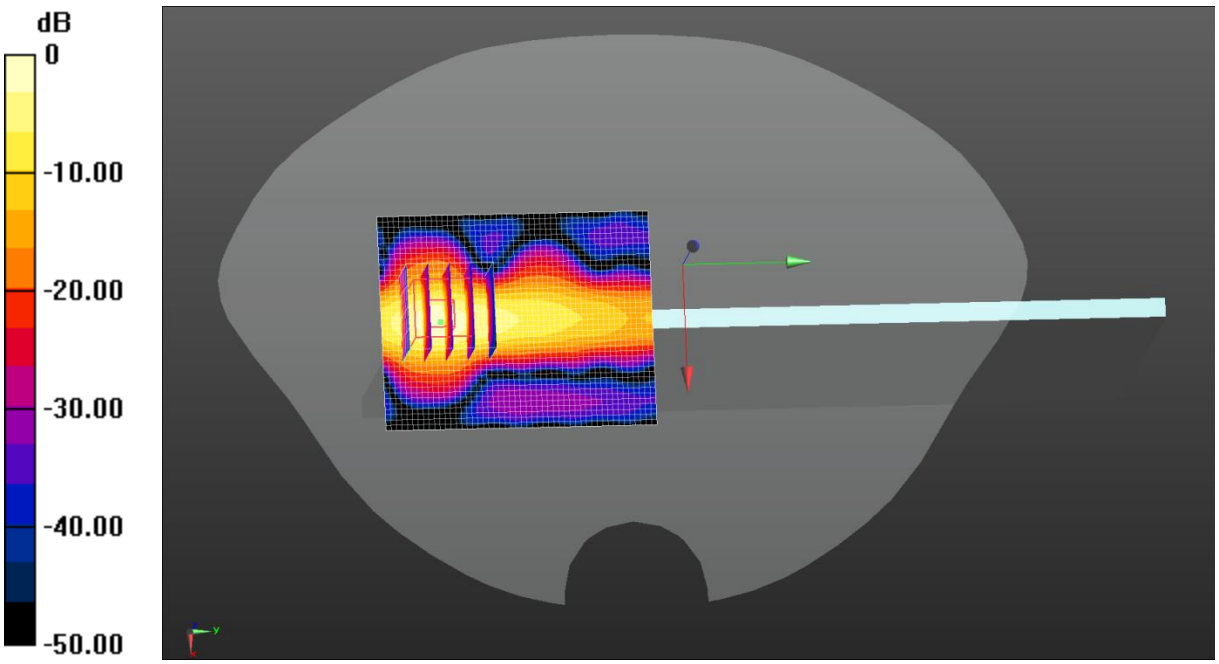
Communication System: UID 0, GPRS(2 Slots) (0); Frequency: 1850.2 MHz;Duty Cycle: 1:4.10015
Medium parameters used (interpolated): f = 1850.2 MHz; σ = 1.446 S/m; ε_r = 39.401; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.13, 8.13, 8.13) @ 1850.2 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GPRS 1900 2Slots Body Top/Low Channel/Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.64 W/kg

GPRS 1900 2Slots Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.107 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 2.12 W/kg
SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.376 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 41.9%
Maximum value of SAR (measured) = 1.73 W/kg



0 dB = 1.64 W/kg = 2.14 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

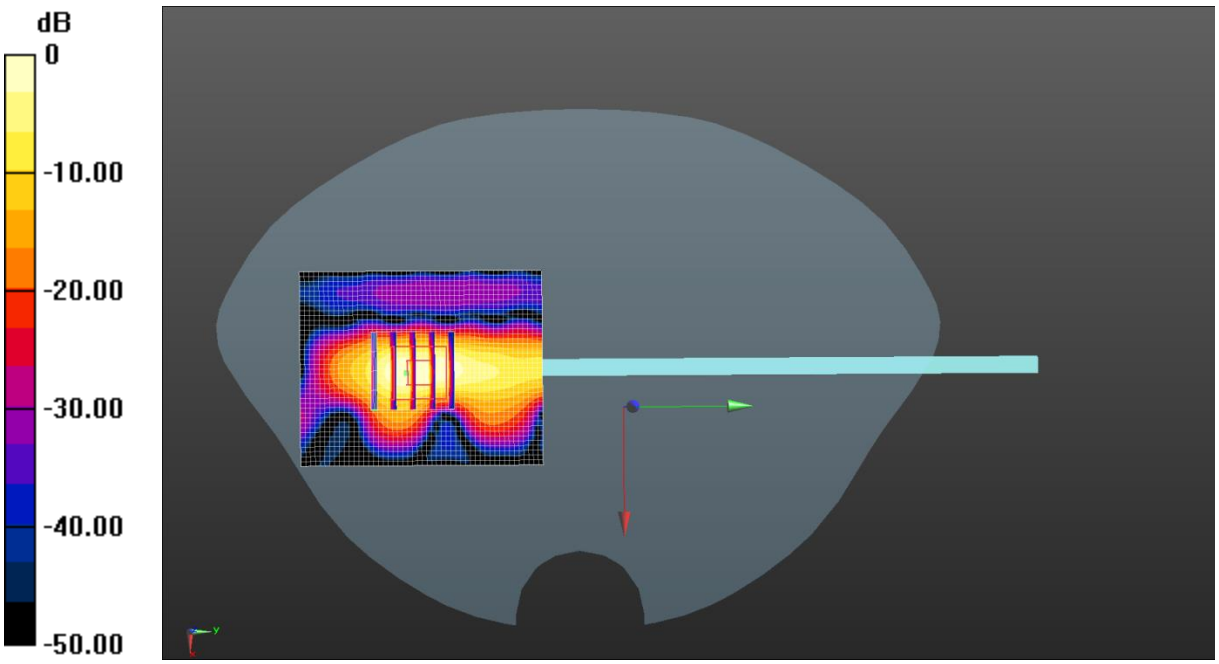
Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.447 S/m; ε_r = 39.401; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.13, 8.13, 8.13) @ 1852.4 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1900 Body Top/Low Channel/Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.51 W/kg

WCDMA 1900 Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.766 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 2.17 W/kg
SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.385 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 41.4%
Maximum value of SAR (measured) = 1.74 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

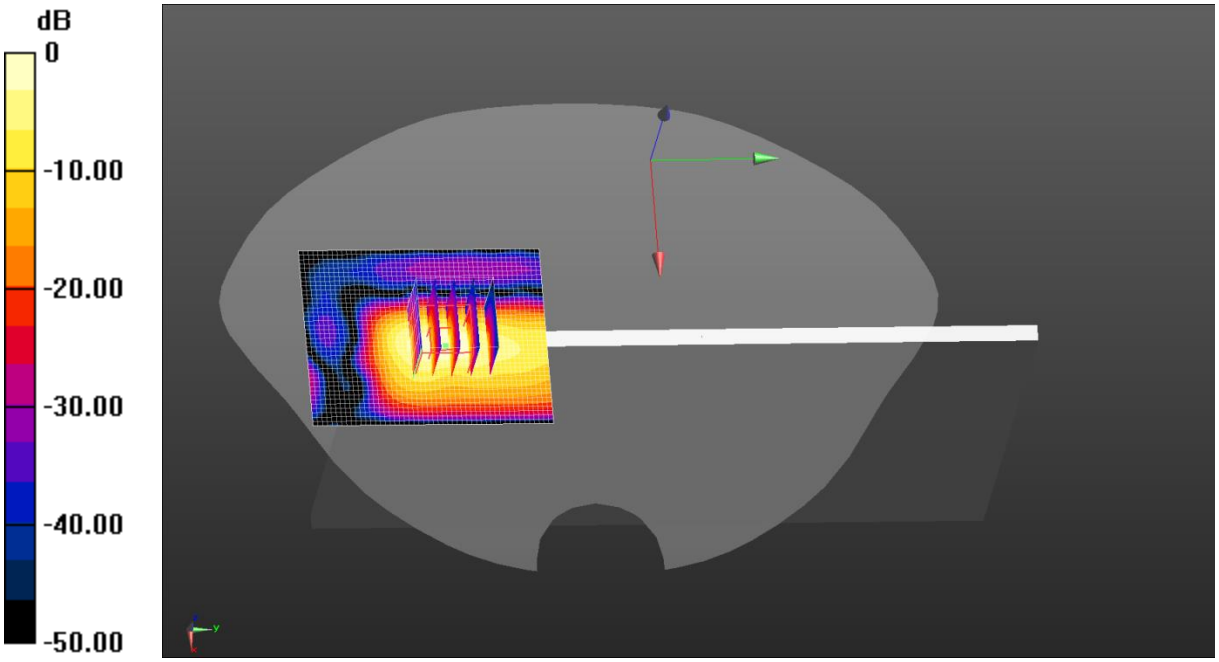
Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.6 MHz; σ = 1.385 S/m; ε_r = 39.553; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(8.47, 8.47, 8.47) @ 1732.6 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 1700 Body Top/Middle Channel/Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.41 W/kg

WCDMA 1700 Body Top/Middle Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.884 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.57 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.470 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 44.2%
Maximum value of SAR (measured) = 1.98 W/kg



0 dB = 1.41 W/kg = 1.50 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

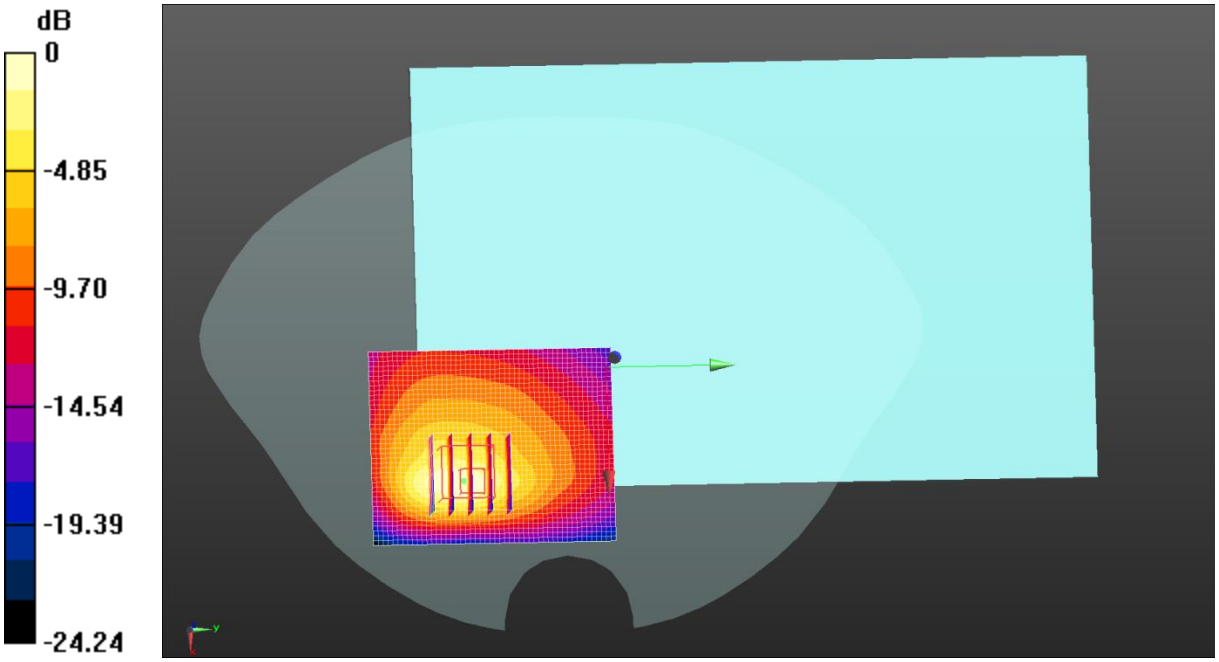
Communication System: UID 0, UMTS-FDD(WCDMA) (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.883 S/m; ε_r = 41.133; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(9.93, 9.93, 9.93) @ 836.6 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

WCDMA 850 Body Back/Middle Channel/Area Scan (41x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.15 W/kg

WCDMA 850 Body Back/Middle Channel/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.12 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.51 W/kg
SAR(1 g) = 1.06 W/kg; SAR(10 g) = 0.558 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 44.4%
Maximum value of SAR (measured) = 1.70 W/kg



0 dB = 2.15 W/kg = 3.32 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1860 MHz; σ = 1.451 S/m; ε_r = 39.399; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

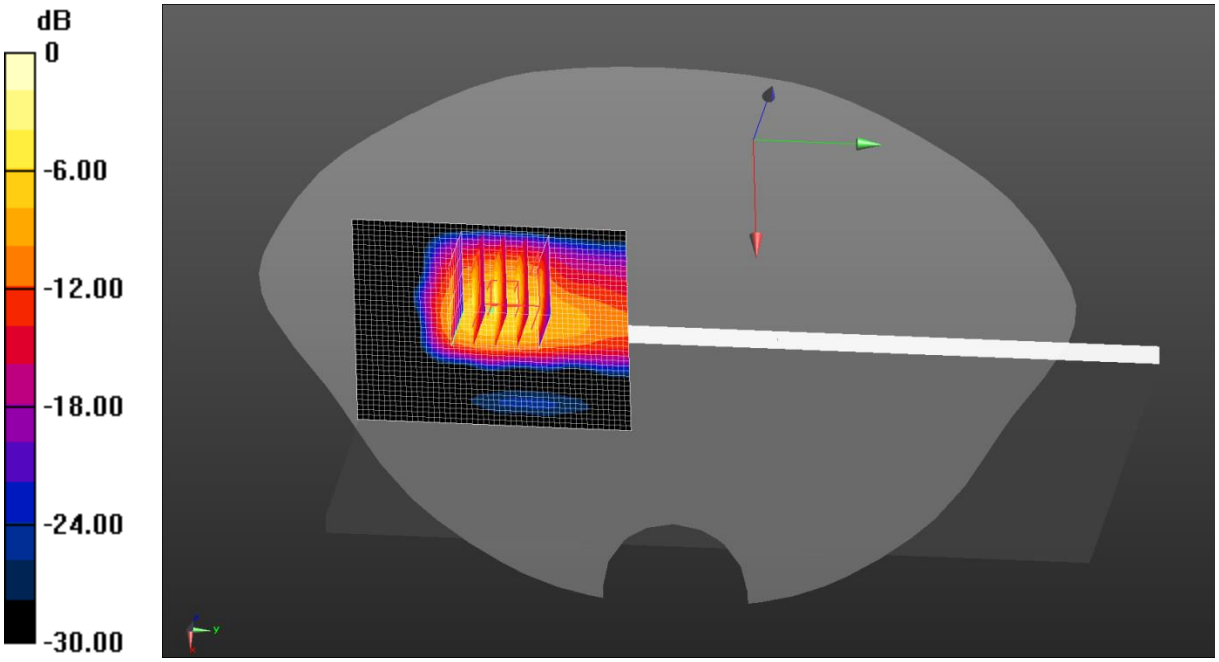
- Probe: EX3DV4 - SN3924; ConvF(8.13, 8.13, 8.13) @ 1860 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 2 1RB(20MHz) Body Top/Low Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.414 W/kg

LTE Band 2 1RB(20MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.000 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 2.34 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.421 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 43%
Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.80 W/kg = 2.55 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1732.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.5 MHz; σ = 1.385 S/m; ε_r = 39.553; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

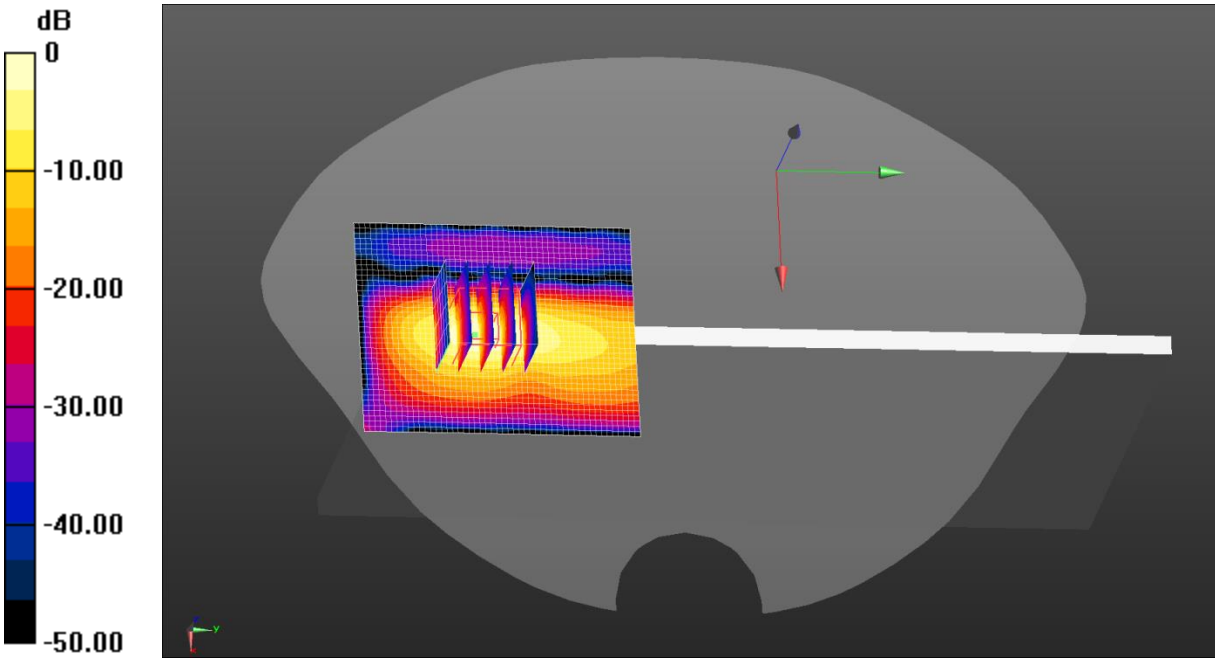
- Probe: EX3DV4 - SN3924; ConvF(8.47, 8.47, 8.47) @ 1732.5 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 4 1RB(20MHz) Body Top/Middle Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.59 W/kg

LTE Band 4 1RB(20MHz) Body Top/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.771 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 2.03 W/kg
SAR(1 g) = 0.845 W/kg; SAR(10 g) = 0.355 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 42.4%
Maximum value of SAR (measured) = 1.63 W/kg



0 dB = 1.59 W/kg = 2.02 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 829 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 829 MHz; σ = 0.88 S/m; ε_r = 41.152; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

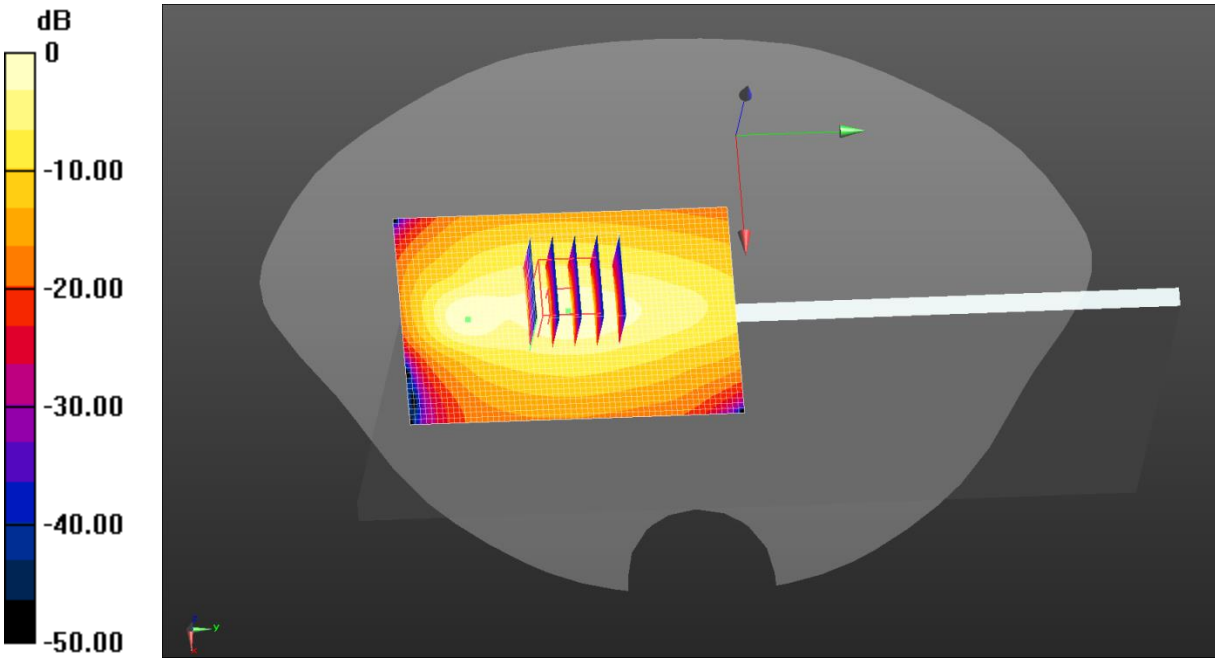
- Probe: EX3DV4 - SN3924; ConvF(9.93, 9.93, 9.93) @ 829 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 5 1RB(10MHz) Body Top/Low Channel/Area Scan (41x61x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.58 W/kg

LTE Band 5 1RB(10MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.36 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.28 W/kg
SAR(1 g) = 0.965 W/kg; SAR(10 g) = 0.492 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 42%
Maximum value of SAR (measured) = 1.72 W/kg



0 dB = 1.58 W/kg = 1.99 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/7

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 1.92 S/m; ε_r = 38.663; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

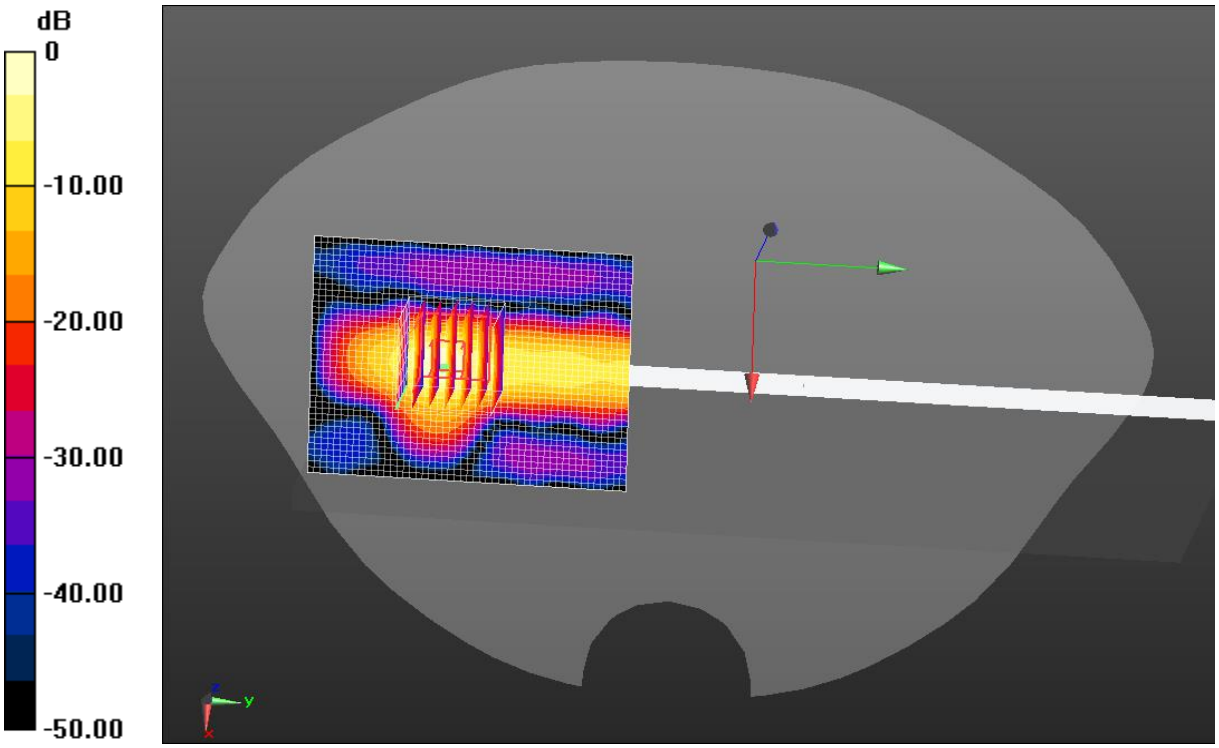
- Probe: EX3DV4 - SN3924; ConvF(7.46, 7.46, 7.46) @ 2510 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 7 1RB(20MHz) Body Top/Low Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 2.25 W/kg

LTE Band 7 1RB(20MHz) Body Top/Low Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.06 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.23 W/kg
SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.380 W/kg
Smallest distance from peaks to all points 3 dB below = 5 mm
Ratio of SAR at M2 to SAR at M1 = 33.8%
Maximum value of SAR (measured) = 2.23 W/kg



0 dB = 2.25 W/kg = 3.53 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 711 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 711 MHz; σ = 0.881 S/m; ε_r = 41.465; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

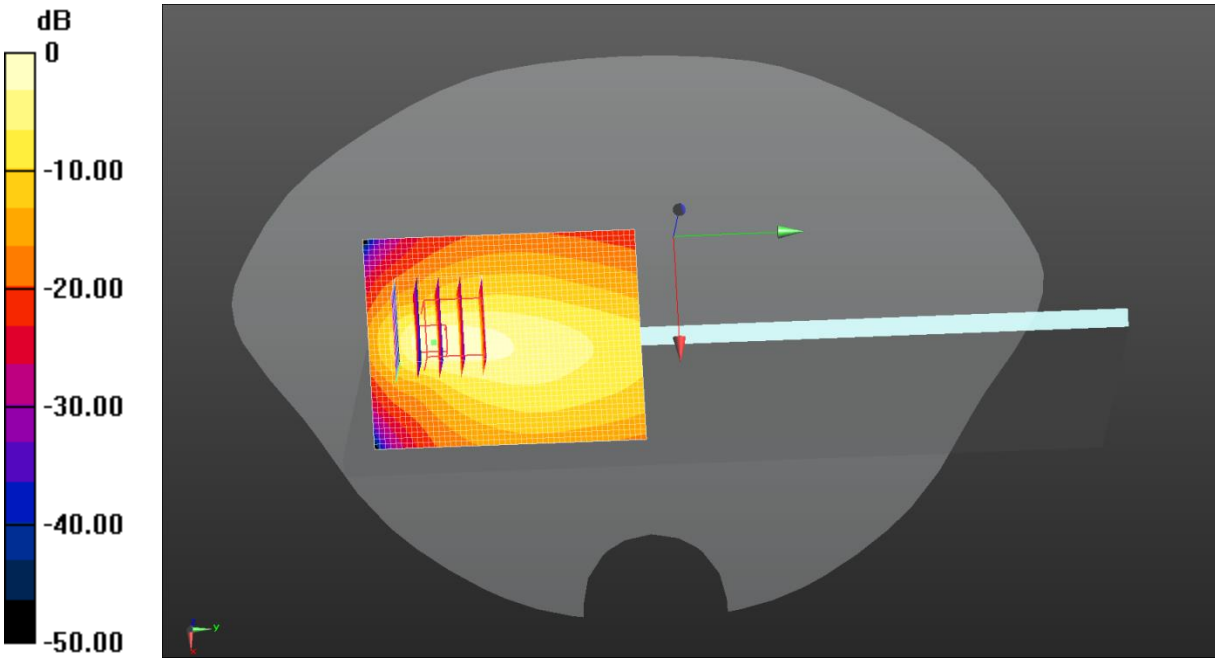
- Probe: EX3DV4 - SN3924; ConvF(10.33, 10.33, 10.33) @ 711 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 12 1RB(10MHz) Body Top/High Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.54 W/kg

LTE Band 12 1RB(10MHz) Body Top/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.09 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.227 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 26.7%
Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.54 W/kg = 1.88 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.909 S/m; ε_r = 41.281; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

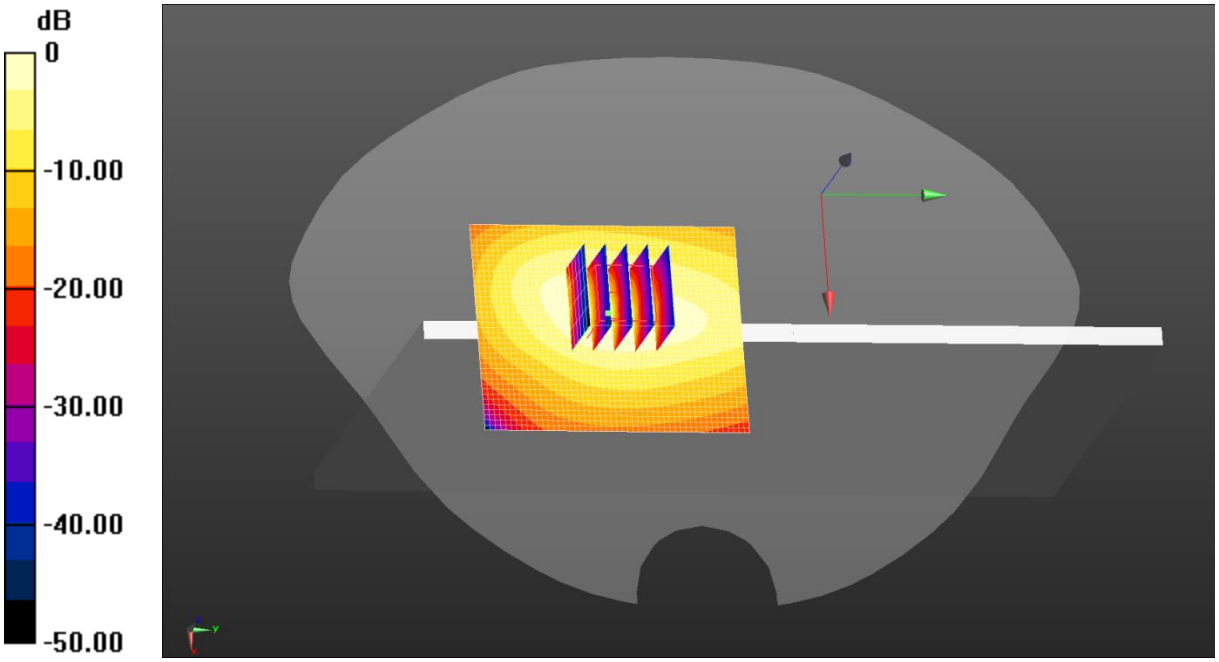
- Probe: EX3DV4 - SN3924; ConvF(10.33, 10.33, 10.33) @ 782 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 13 1RB(10MHz) Body Top/Middle Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.873 W/kg

LTE Band 13 1RB(10MHz) Body Top/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.87 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.15 W/kg
SAR(1 g) = 0.869 W/kg; SAR(10 g) = 0.446 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 41.1%
Maximum value of SAR (measured) = 1.68 W/kg



0 dB = 0.873 W/kg = -0.59 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 710 MHz;Duty Cycle: 1:1
Medium parameters used: f = 710 MHz; σ = 0.88 S/m; ε_r = 41.468; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

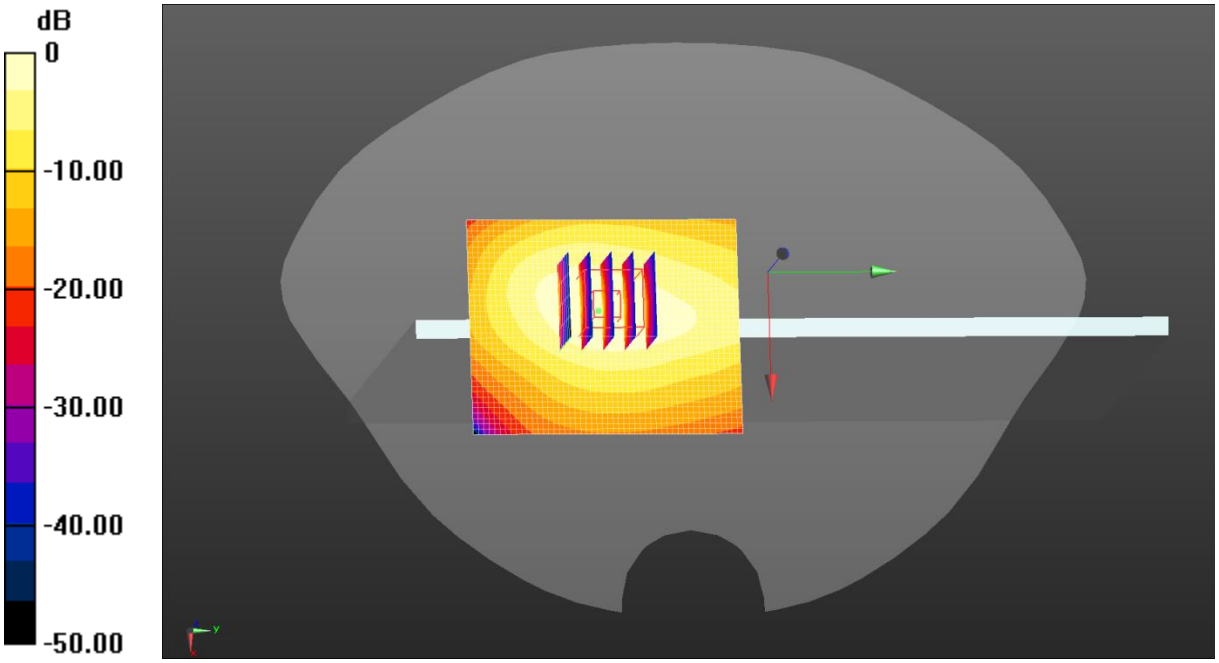
- Probe: EX3DV4 - SN3924; ConvF(10.33, 10.33, 10.33) @ 710 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 17 1RB(10MHz) Body Top/Middle Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.885 W/kg

LTE Band 17 1RB(10MHz) Body Top/Middle Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.15 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 2.47 W/kg
SAR(1 g) = 0.929 W/kg; SAR(10 g) = 0.466 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 38.6%
Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 0.885 W/kg = -0.53 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1860 MHz; σ = 1.451 S/m; ε_r = 39.399; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

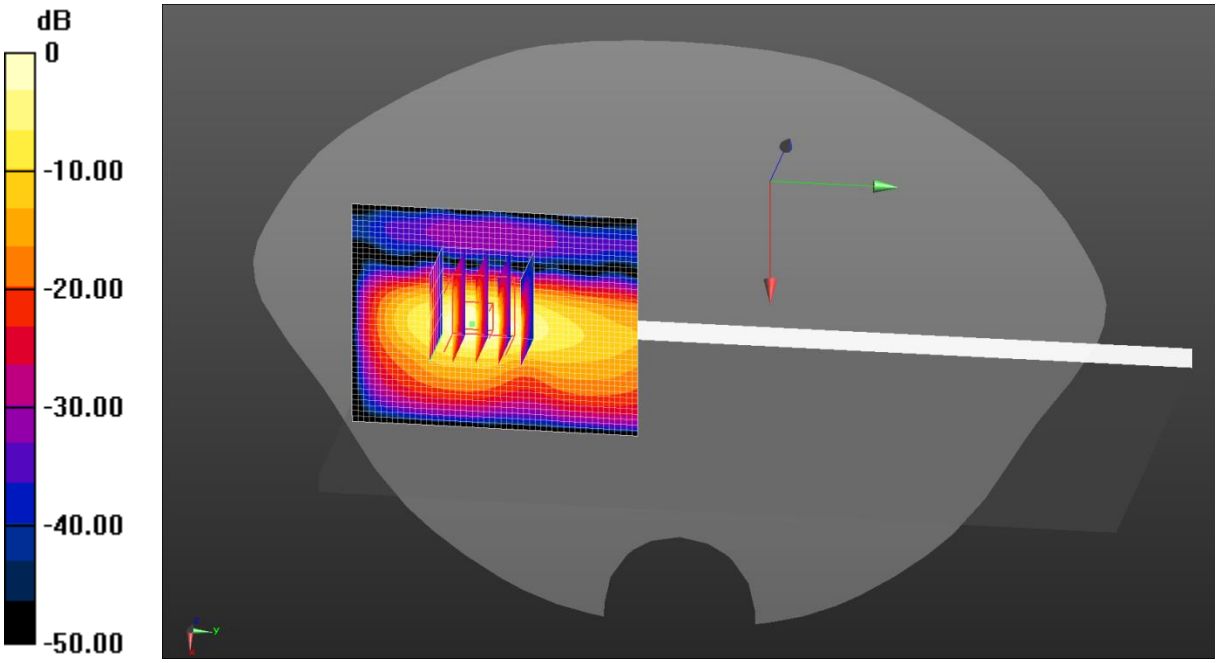
- Probe: EX3DV4 - SN3924; ConvF(8.13, 8.13, 8.13) @ 1860 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 25 1RB(20MHz) Body Top/Low Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.53 W/kg

LTE Band 25 1RB(20MHz) Body Top/Low Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.371 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.93 W/kg
SAR(1 g) = 0.801 W/kg; SAR(10 g) = 0.331 W/kg
Smallest distance from peaks to all points 3 dB below = 5.8 mm
Ratio of SAR at M2 to SAR at M1 = 41.9%
Maximum value of SAR (measured) = 1.56 W/kg



0 dB = 1.53 W/kg = 1.84 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/27

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 841.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 841.5 MHz; σ = 0.892 S/m; ε_r = 41.121; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

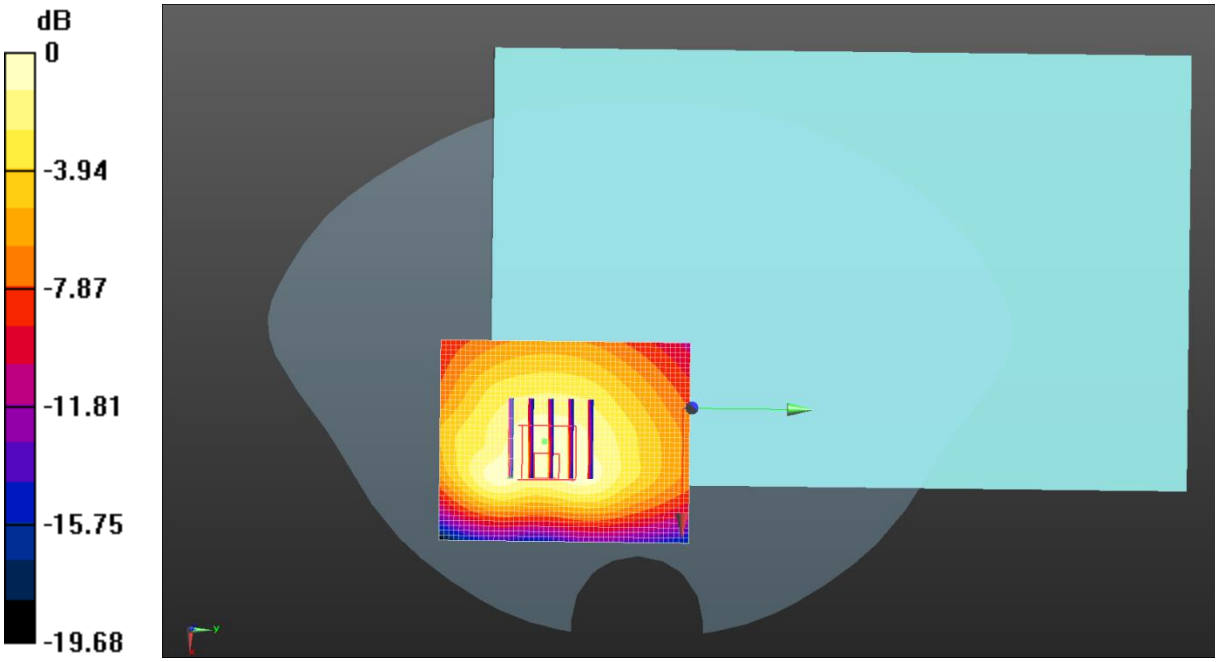
- Probe: EX3DV4 - SN3924; ConvF(9.93, 9.93, 9.93) @ 841.5 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 26 1RB(15MHz) Body Back/High Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.594 W/kg

LTE Band 26 1RB(15MHz) Body Back/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.80 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.50 W/kg
SAR(1 g) = 0.692 W/kg; SAR(10 g) = 0.378 W/kg
Smallest distance from peaks to all points 3 dB below = 13.8 mm
Ratio of SAR at M2 to SAR at M1 = 47.4%
Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 0.594 W/kg = -2.26 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/7

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2580 MHz;Duty Cycle: 1:1.59956
Medium parameters used: f = 2580 MHz; σ = 1.976 S/m; ε_r = 38.542; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

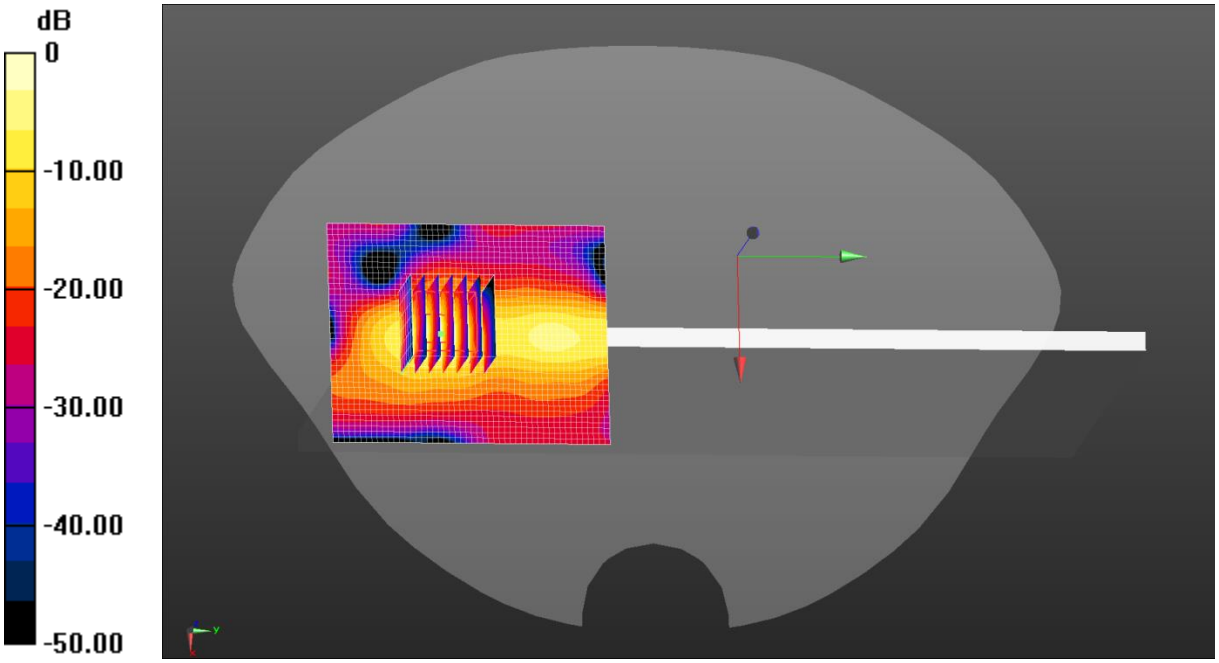
- Probe: EX3DV4 - SN3924; ConvF(7.46, 7.46, 7.46) @ 2580 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 38 1RB(20MHz) Body Top/Low Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.78 W/kg

LTE Band 38 1RB(20MHz) Body Top/Low Channel/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.52 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.68 W/kg
SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.292 W/kg
Smallest distance from peaks to all points 3 dB below = 5 mm
Ratio of SAR at M2 to SAR at M1 = 34.7%
Maximum value of SAR (measured) = 1.90 W/kg



0 dB = 1.78 W/kg = 2.50 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/7

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

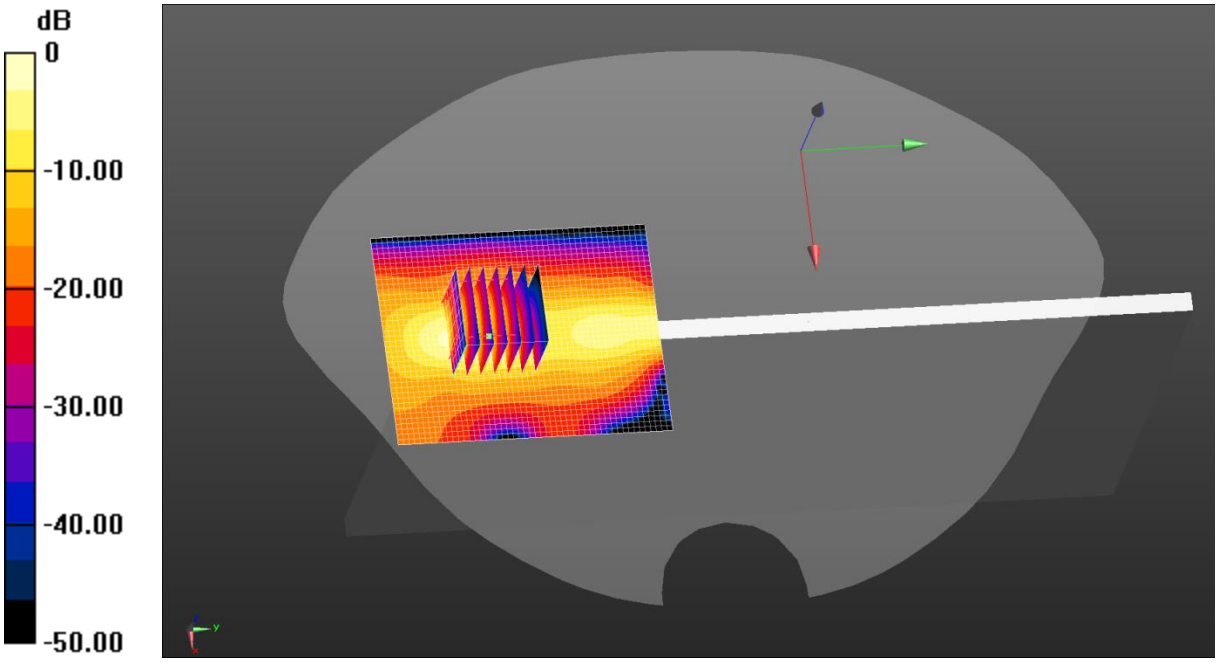
Communication System: UID 0, LTE-TDD(USA) 20MHz 1RB QPSK (0); Frequency: 2570 MHz;Duty Cycle: 1:1.59956
Medium parameters used: f = 2570 MHz; σ = 1.968 S/m; ε_r = 38.558; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.46, 7.46, 7.46) @ 2570 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 41 1RB(20MHz) Body Top/Low Middle Channel/Area Scan (41x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.25 W/kg

LTE Band 41 1RB(20MHz) Body Top/Low Middle Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.07 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.60 W/kg
SAR(1 g) = 0.908 W/kg; SAR(10 g) = 0.324 W/kg
Smallest distance from peaks to all points 3 dB below = 5 mm
Ratio of SAR at M2 to SAR at M1 = 37.2%
Maximum value of SAR (measured) = 1.74 W/kg



0 dB = 1.25 W/kg = 0.98 dBW/kg

Test Laboratory: JYTSZ Date: 2025/6/29

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

Communication System: UID 0, LTE-Fdd(USA) 1RB QPSK (0); Frequency: 1770 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1770 MHz; σ = 1.405 S/m; ε_r = 39.483; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

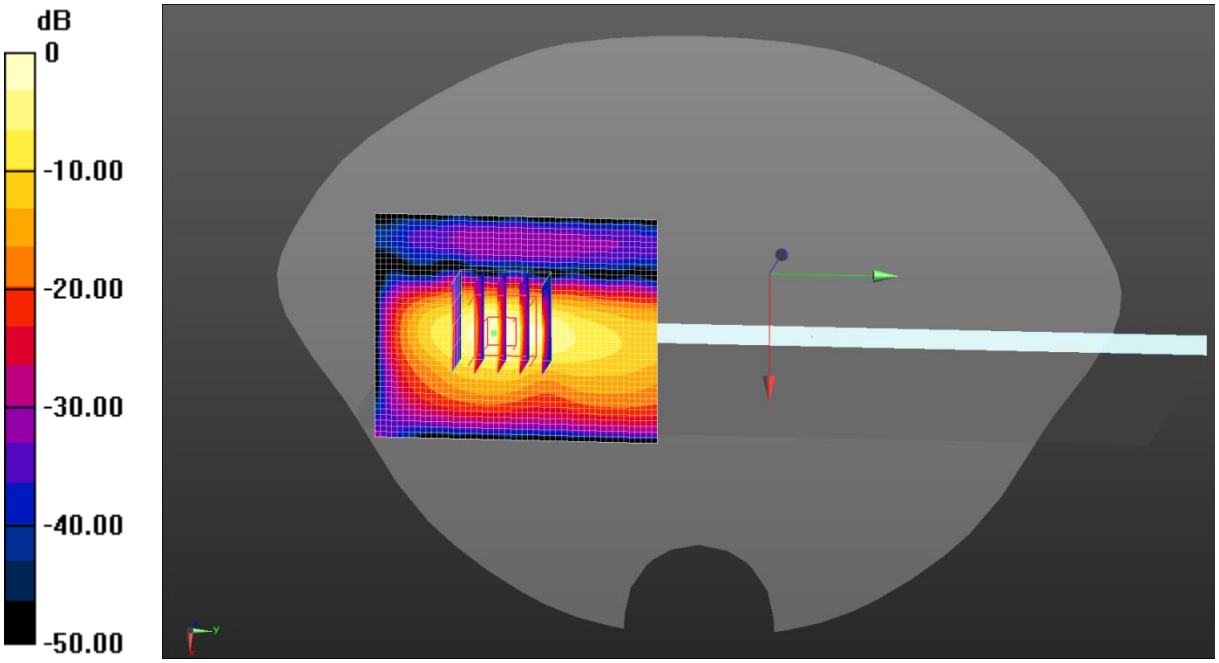
- Probe: EX3DV4 - SN3924; ConvF(8.47, 8.47, 8.47) @ 1770 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 1RB(20MHz) Body Top/High Channel/Area Scan (41x51x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.29 W/kg

LTE Band 66 1RB(20MHz) Body Top/High Channel/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.876 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.60 W/kg
SAR(1 g) = 0.670 W/kg; SAR(10 g) = 0.283 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 42.9%
Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.29 W/kg = 1.12 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/4

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

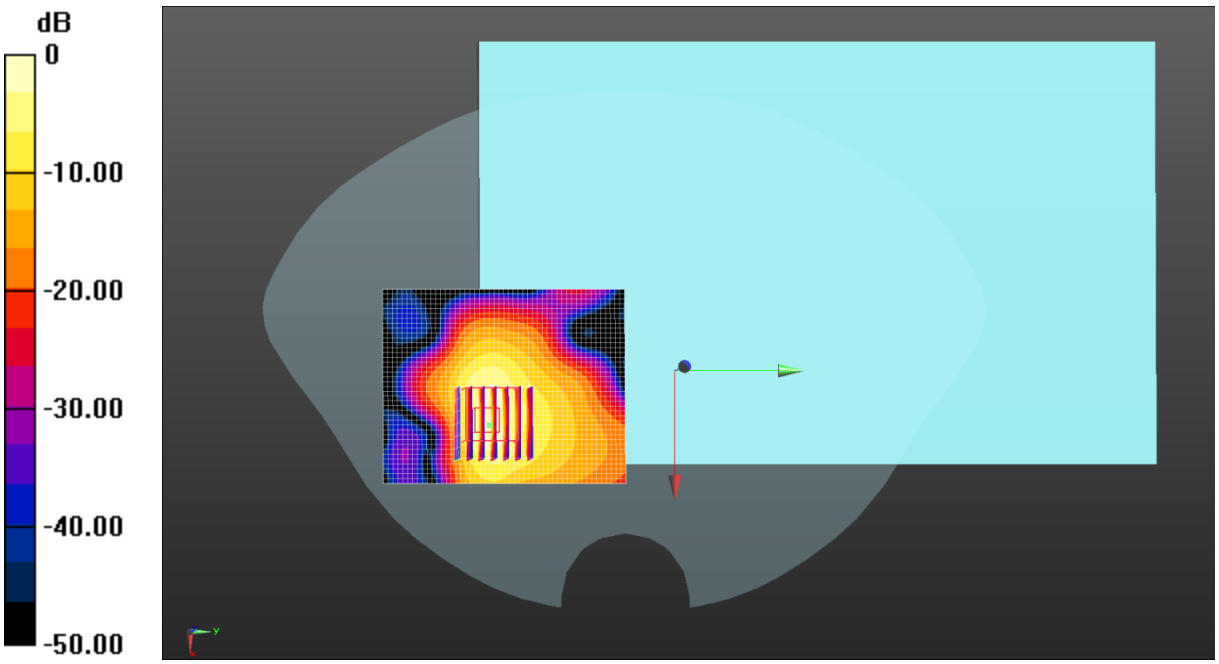
Communication System: UID 0, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.861 S/m; ε_r = 38.783; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.61, 7.61, 7.61) @ 2437 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2.4G WiFi Body Back/Middle Channel/Area Scan (41x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.589 W/kg

2.4G WiFi Body Back/Middle Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.8420 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.800 W/kg
SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.141 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 37.1%
Maximum value of SAR (measured) = 0.586 W/kg



0 dB = 0.589 W/kg = -2.30 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/9

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

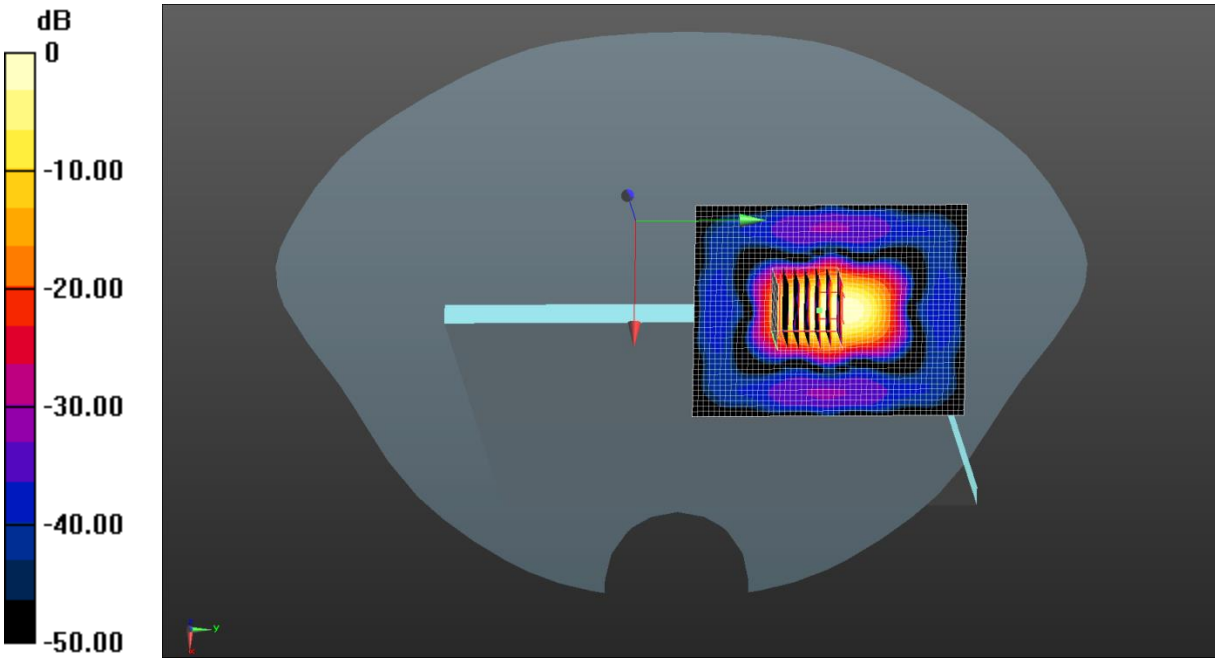
Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5200 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5200 MHz; σ = 4.845 S/m; ε_r = 36.847; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.35, 5.35, 5.35) @ 5200 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.2G WiFi Body Left/Middle Channel/Area Scan (41x51x1): Interpolated grid: dx1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.155 W/kg

5.2G WiFi Body Left/Middle Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.041 W/kg
Smallest distance from peaks to all points 3 dB below = 3.6 mm
Ratio of SAR at M2 to SAR at M1 = 38.5%
Maximum value of SAR (measured) = 0.819 W/kg



0 dB = 0.155 W/kg = -8.10 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/9

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

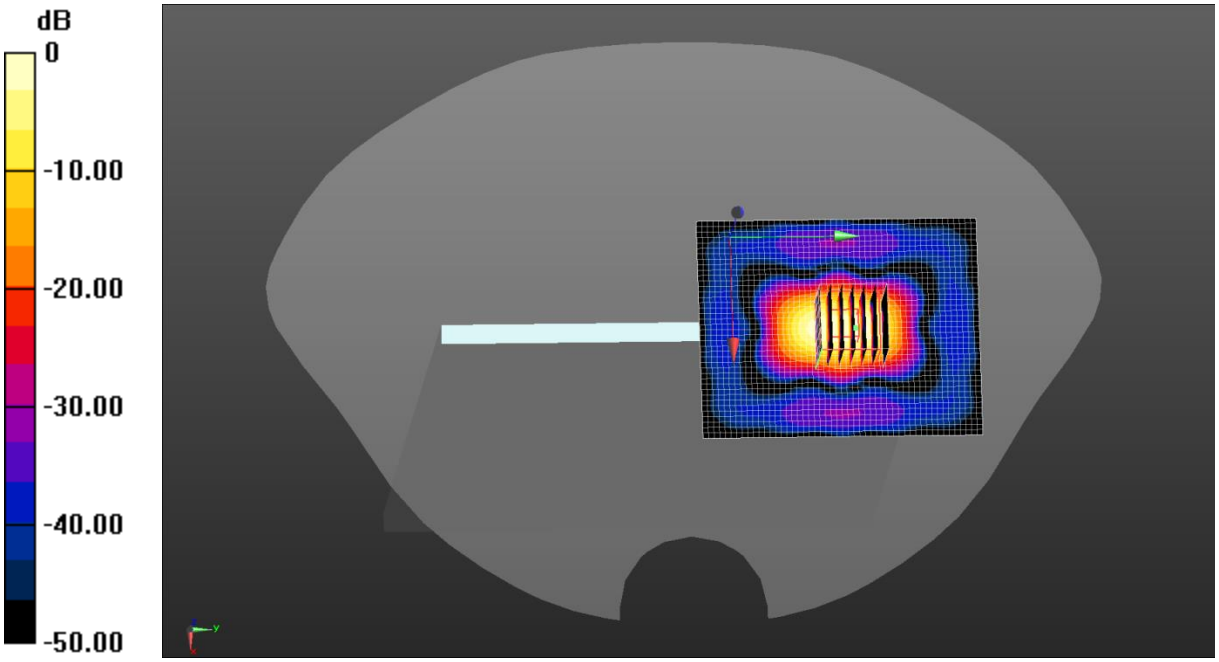
Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5320 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5320 MHz; σ = 4.984 S/m; ε_r = 36.688; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(5.35, 5.35, 5.35) @ 5320 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.3G WiFi Body Left/High Channel/Area Scan (41x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.188 W/kg

5.3G WiFi Body Left/High Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 2.03 W/kg
SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.053 W/kg
Smallest distance from peaks to all points 3 dB below = 3.6 mm
Ratio of SAR at M2 to SAR at M1 = 37%
Maximum value of SAR (measured) = 0.913 W/kg



0 dB = 0.188 W/kg = -7.26 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/12

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

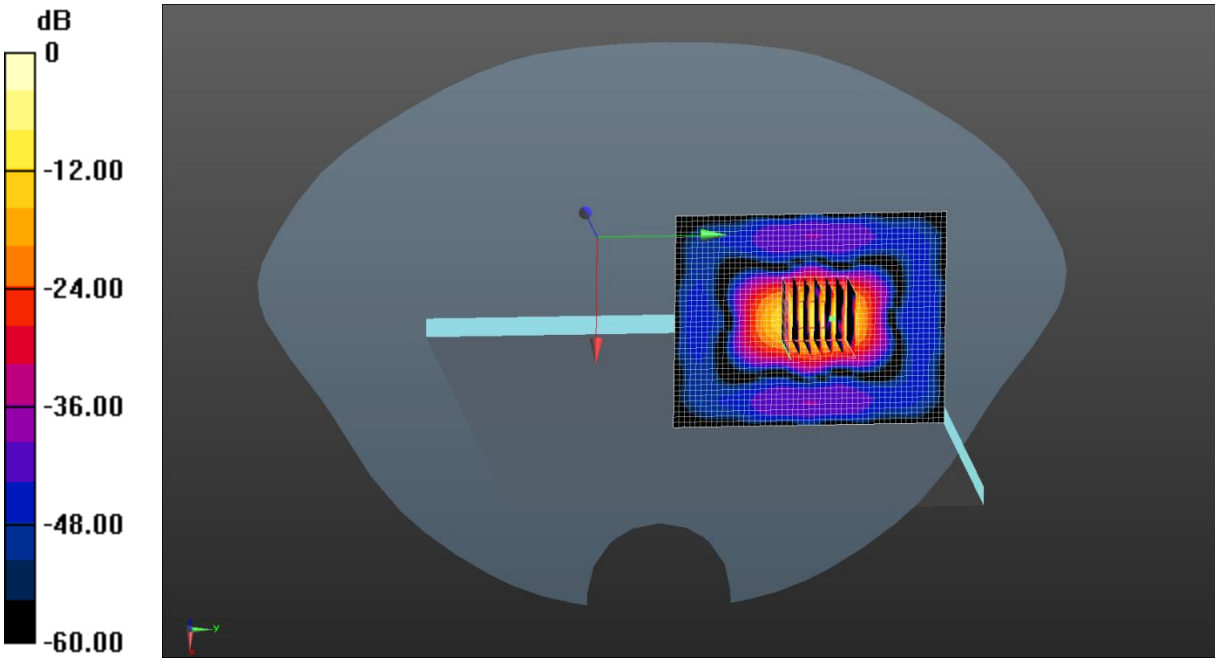
Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5500 MHz; σ = 5.183 S/m; ε_r = 36.44; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.8, 4.8, 4.8) @ 5500 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.6G WiFi Body Left/Low Channel/Area Scan (41x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.181 W/kg

5.6G WiFi Body Left/Low Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0.3970 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.02 W/kg
SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.044 W/kg
Smallest distance from peaks to all points 3 dB below = 2.5 mm
Ratio of SAR at M2 to SAR at M1 = 35.5%
Maximum value of SAR (measured) = 0.877 W/kg



0 dB = 0.877 W/kg = -0.57 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/12

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

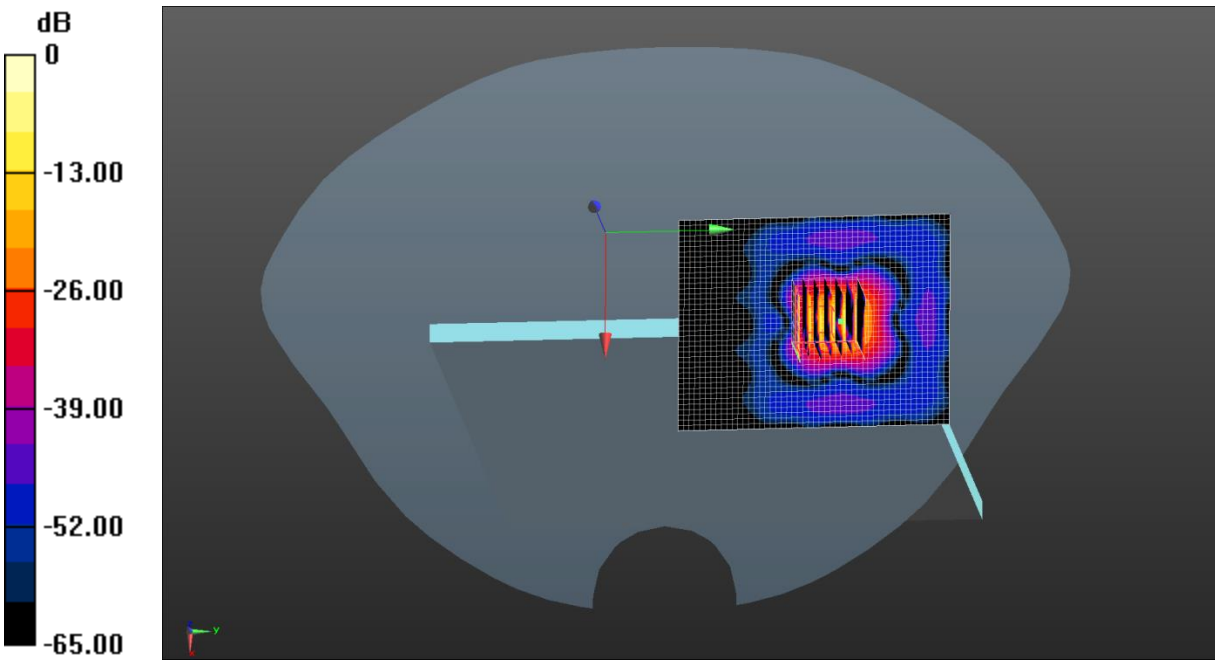
Communication System: UID 0, IEEE 802.11a WiFi 5GHz (0); Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 5.404 S/m; ε_r = 36.039; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(4.89, 4.89, 4.89) @ 5785 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

5.8G WiFi Body Left/Middle Channel/Area Scan (41x51x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.155 W/kg

5.8G WiFi Body Left/Middle Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0.4480 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.00 W/kg
SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.050 W/kg
Smallest distance from peaks to all points 3 dB below = 2.5 mm
Ratio of SAR at M2 to SAR at M1 = 35.4%
Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

Test Laboratory: JYTSZ Date: 2025/7/4

DUT: Tablet; Type: X1201; Serial: SZR012500289-3

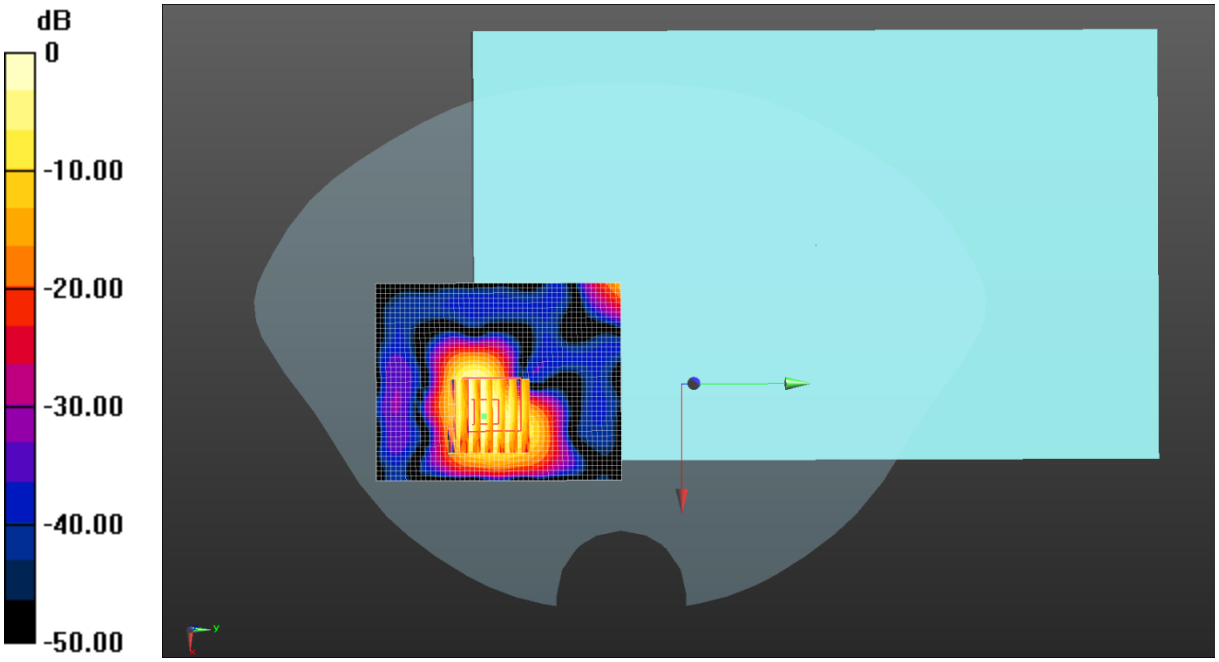
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.865 S/m; ε_r = 38.777; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3924; ConvF(7.61, 7.61, 7.61) @ 2441 MHz; Calibrated: 2025/4/11
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1452; Calibrated: 2025/4/10
- Phantom: SAM 5.0; Type: QD000P40CD; Serial: TP:1765
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Bluetooth Body Back/Middle Channel/Area Scan (41x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.0753 W/kg

Bluetooth Body Back/Middle Channel/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.142 W/kg
SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.025 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 37.3%
Maximum value of SAR (measured) = 0.0954 W/kg



0 dB = 0.0753 W/kg = -11.23 dBW/kg

------End of Report------