



SAR Test Report

Report No.: STS2512229H01

Issued for

Shanghai Yaoyou Information Technology Co., Ltd.

Room 201, South Side, 1B Floor, Lianzhi Valley, No. 1366, Qixin Road, Minhang District, Shanghai, China.

Product Name: Android data collector

Brand Name: YAOYOU

Model Name: Y55

Series Model(s): Y55G, Y55pro, Y55E, Y55L, Y55S, Y55U, P8III, P8IIIH, P40, P40PRO, PCR100Y, PCR550, PDA006, RC320, RC325, A-Tab, HP-Tab, S60III, S60III Pro, MC200, MC200G, MC200pro, CS5i, CS5i Pro, HC12, T7, D5, SC280

FCC ID: 2BT3Z-Y55

Test Standard: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

Max. Report SAR (1g) Body: 1.245 W/kg

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT CERTIFICATION**

Applicant's name.....: Shanghai Yaoyou Information Technology Co., Ltd.
Address.....: Room 201, South Side, 1B Floor, Lianzhi Valley, No. 1366, Qixin Road, Minhang District, Shanghai, China.
Manufacturer's Name.....: Shanghai Yaoyou Information Technology Co., Ltd.
Address.....: Room 201, South Side, 1B Floor, Lianzhi Valley, No. 1366, Qixin Road, Minhang District, Shanghai, China.

Product description

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Standards.....: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test.....:

Date (s) of performance of tests.....: 09 Jan. 2026 ~ 11 Jan. 2026

Date of Issue.....: 30 Jan. 2026

Test Result.....: **Pass**

Testing Engineer :

Xin Liu

(Xin.Liu)

Technical Manager :

Shi fan-long

(Shifan. Long)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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Rev.	Issue Date	Report No.	Effect Page	Contents
00	30 Jan. 2026	STS2512229H01	ALL	Initial Issue



1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Android data collector
Brand Name	YAOYOU
Model Name	Y55
Series Model	Y55G, Y55pro, Y55E, Y55L, Y55S, Y55U, P8III, P8IIIH, P40, P40PRO, PCR100Y, PCR550, PDA006, RC320, RC325, A-Tab, HP-Tab, S60III, S60III Pro, MC200, MC200G, MC200pro, CS5i, CS5i Pro, HC12, T7, D5, SC280
Model Difference	N/A
Sample number	Only different in model name.
Battery	Model: 5643116-2P Brand:Shenzhen Jiayuan Tongda Technology Co., Ltd. Rated Voltage:3.8V Charge Limit Voltage:4.35V Capacity: 9000mAh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	XT55_MB_V1.0
Software Version	Y55_V1.0
Frequency Range	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7:2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz) LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 2 (1850-1910 MHz)is covered by LTE Band 25(1850-1915 MHz) LTE Band 26: 814 MHz ~ 824 MHz / 824 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz) WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz NFC:13.56MHz



Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Body:0mm	Band	Mode	Body Worn and Hotspot(W/kg)
	PCB	LTE Band 5	0.467
	PCB	LTE Band 7	0.262
	PCB	LTE Band 12/17	0.094
	PCB	LTE Band 13	0.246
	PCB	LTE Band 25/2	0.140
	PCB	LTE Band 26	0.731
	PCB	LTE Band 38	0.075
	PCB	LTE Band 40	0.068
	PCB	LTE Band 41	0.073
	PCB	LTE Band 66/4	0.876
	DTS	2.4G WLAN	0.369
	DSS	BT	0.086
	NII	5.2G WLAN	0.145
	NII	5.3G WLAN	0.166
	NII	5.6G WLAN	0.170
	NII	5.8G WLAN	0.154
DXX	NFC	0.000	
1-g Sum SAR			1.245
FCC Equipment Class	Licensed Transmitter (PCB) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)		
Operating Mode:	LTE: QPSK, 16QAM 2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK NFC:ASK		
Antenna Specification:	LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna NFC: PIFA Antenna		
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time		
Hotspot Mode	Support		
DTM Mode	Not Support		
Note: 1. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active) 2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests. 3. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power			



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg



3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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.

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

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).

A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

A unit to operate the optical surface detector which is connected to the EOC.

The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.

The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation. A computer operating Windows 2003.

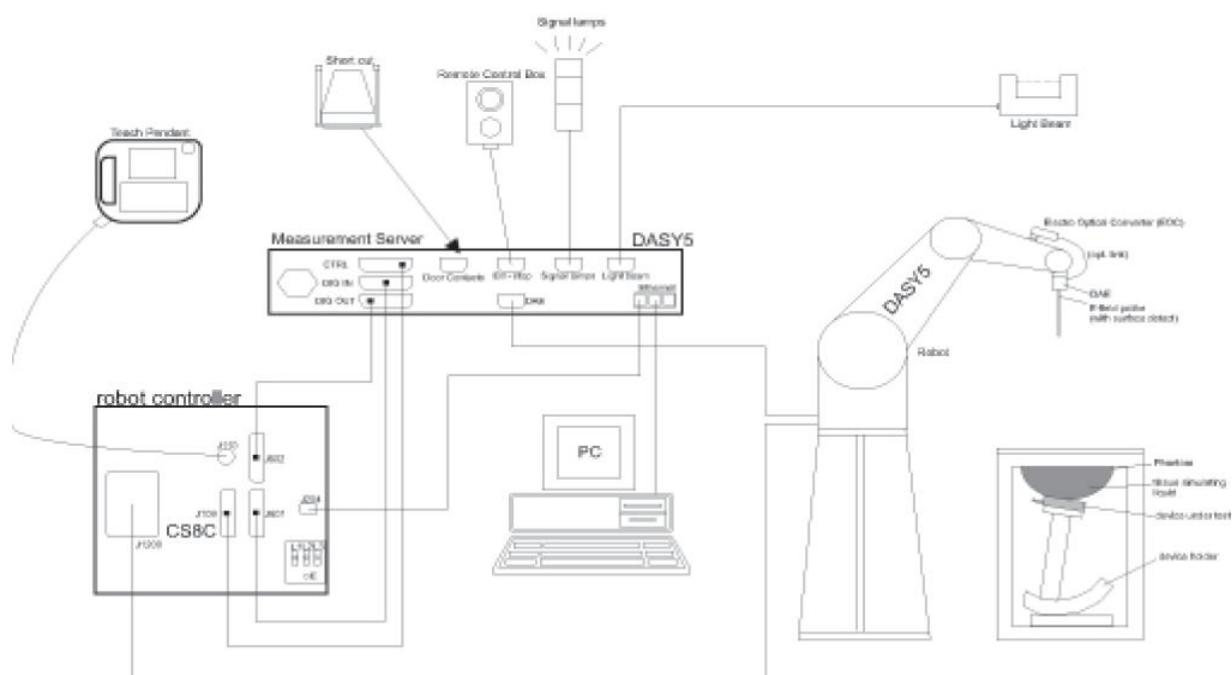
DASY5 software and SEMCAD data evaluation software.

Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.

The generic twin phantom enabling the testing of left-hand and right-hand usage.



System validation dipoles allowing to validate the proper functioning of the system.



3.3 DASY5 E-field Probe System

The SAR measurements were conducted with the dosimetric probe ES3DV3 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation.

Probe Specification

Construction Symmetrical design with triangular core
Interleaved sensors
Built-in shielding against static charges
PEEK enclosure material (resistant to organic solvents, e.g., DGBE)

Calibration ISO/IEC 17025 calibration service available.

Frequency 10 MHz to 4 GHz;
Linearity: ± 0.2 dB (30 MHz to 4 GHz)

Directivity ± 0.2 dB in HSL (rotation around probe axis)
 ± 0.3 dB in tissue material (rotation normal to probe axis)

Dynamic Range 5 μ W/g to > 100 mW/g;
Linearity: ± 0.2 dB

Dimensions Overall length: 337 mm (Tip: 20 mm)
Tip diameter: 3.9 mm (Body: 12 mm)
Distance from probe tip to dipole centers: 2.0 mm

Application General dosimetry up to 4 GHz
Dosimetry in strong gradient fields
Compliance tests of Mobile Phones

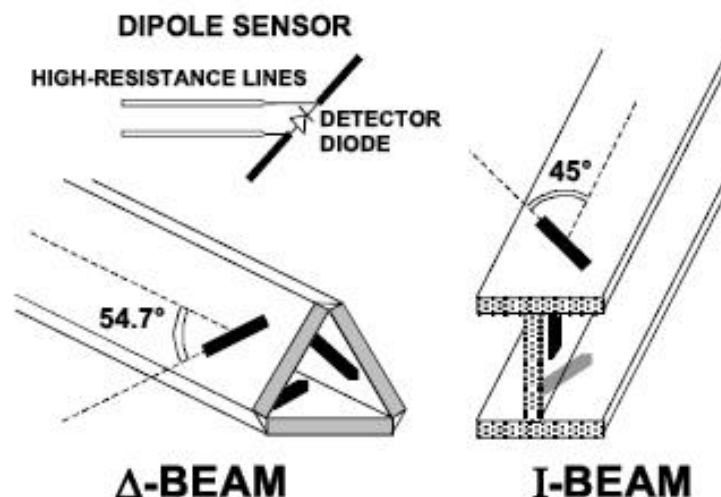
Compatibility DASY3, DASY5, DASY52 SAR and higher,
EASY4/MRI

Isotropic E-Field Probe

The isotropic E-Field probe has been fully calibrated and assessed for isotropicity, and boundary effect within a controlled environment. Depending on the frequency for which the probe is calibrated the method utilized for calibration will change.

The E-Field probe utilizes a triangular sensor arrangement as detailed in the diagram below:





3.4 Phantoms

The phantom used for all tests i.e. for both system checks and device testing, was the twin-headed "SAM Phantom", manufactured by SPEAG. The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness increases to 6mm). System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections. Body SAR testing also used the flat section between the head profiles.



SAM Twin Phantom

3.5 Device Holder

The device was placed in the device holder (illustrated below) that is supplied by SPEAG as an integral part of the DASY system.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.



Device holder supplied by SPEAG

3.6 Scanning Procedure

The DASY5 installation includes predefined files with recommended procedures for measurements and validation. They are read-only document files and destined as fully defined but unmeasured masks. All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure. The indicated drift is mainly the variation of the DUT’s output power and should vary max. $\pm 5\%$.

The “surface check” measurement tests the optical surface detection system of the DASY5 system by repeatedly detecting the surface with the optical and mechanical surface detector and comparing the results. The output gives the detecting heights of both systems, the difference between the two systems and the standard deviation of the detection repeatability. Air bubbles or refraction in the liquid due to separation of the sugar-water mixture gives poor repeatability (above $\pm 0.1\text{mm}$). To prevent wrong results tests are only executed when the liquid is free of air bubbles. The difference between the optical surface detection and the actual surface depends on the probe and is specified with each probe (It does not depend on the surface reflectivity or the probe angle to the surface within $\pm 30^\circ$.)

Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values before running a detailed measurement around the hot spot. Before starting the area scan a grid spacing of $15\text{ mm} \times 15\text{ mm}$ is set. During the scan the distance of the probe to the phantom remains unchanged. After finishing area scan, the field maxima within a range of 2 dB will be ascertained.

Zoom Scan

Zoom Scans are used to estimate the peak spatial SAR values within a cubic averaging volume



containing 1 g and 10 g of simulated tissue. The default Zoom Scan is done by 7x7x7 points within a cube whose base is centered around the maxima found in the preceding area scan.

Spatial Peak Detection

The procedure for spatial peak SAR evaluation has been implemented and can determine values of masses of 1g and 10g, as well as for user-specific masses. The DASY5 system allows evaluations that combine measured data and robot positions, such as: • maximum search • extrapolation • boundary correction • peak search for averaged SAR. During a maximum search, global and local maxima searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

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. Several measurements at different distances are necessary for the extrapolation. Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Zoom Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard's method for extrapolation. For a grid using 7x7x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1g and 10g cubes.

A Z-axis scan measures the total SAR value at the x-and y-position of the maximum SAR value found during the cube 7x7x7 scan. The probe is moved away in z-direction from the bottom of the SAM phantom in 5mm steps.

3.7 Data Storage and Evaluation

Data Storage

The DASY5 software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DA4". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation

The SEMCAD software 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	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	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 DASY5 components. In the direct measuring mode of the multimeter 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 priMayy field data for each channel can be evaluated:

$$E - \text{fieldprobes : } E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

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

With V_i = compensated signal of channel i ($i = x, y, z$)
 $Norm_i$ = sensor sensitivity of channel i ($i = x, y, z$)
 [mV/(V/m)²] for E-field Probes
 $ConvF$ = 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
 H_i = 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 priMayy field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

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 = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

**LIQUID MEASUREMENT RESULTS**

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-01-09	23.2	60	704	22.9	Permittivity	42.15	42.83	1.62	±5
					Conductivity	0.89	0.90	1.47	±5
2026-01-09	23.2	60	750	22.9	Permittivity	41.90	42.05	0.36	±5
					Conductivity	0.89	0.88	-1.12	±5
2026-01-09	23.2	60	782	22.9	Permittivity	41.73	42.53	1.92	±5
					Conductivity	0.89	0.91	2.00	±5
2026-01-09	23.2	60	821.5	22.9	Permittivity	41.56	42.22	1.58	±5
					Conductivity	0.90	0.92	2.40	±5
2026-01-09	23.2	60	829	22.9	Permittivity	41.53	41.40	-0.31	±5
					Conductivity	0.90	0.87	-3.26	±5
2026-01-09	23.2	60	835	22.9	Permittivity	41.50	41.50	0.00	±5
					Conductivity	0.90	0.88	-2.22	±5
2026-01-09	23.2	60	836.5	22.9	Permittivity	41.49	41.17	-0.78	±5
					Conductivity	0.90	0.89	-1.13	±5
2026-01-09	23.2	60	841.5	22.9	Permittivity	41.50	40.96	-1.30	±5
					Conductivity	0.91	0.91	0.33	±5
2026-01-09	23.2	60	844	22.9	Permittivity	41.50	41.50	0.00	±5
					Conductivity	0.91	0.91	0.03	±5
2026-01-10	22.7	52	1720	22.4	Permittivity	40.11	40.68	1.41	±5
					Conductivity	1.35	1.34	-1.05	±5
2026-01-10	22.7	52	1745	22.4	Permittivity	40.08	40.74	1.65	±5
					Conductivity	1.37	1.37	0.10	±5
2026-01-10	22.7	52	1770	22.4	Permittivity	40.04	40.95	2.27	±5
					Conductivity	1.38	1.41	1.96	±5
2026-01-10	22.7	52	1800	22.4	Permittivity	40.00	40.27	0.68	±5
					Conductivity	1.40	1.41	0.71	±5
2026-01-10	22.7	52	1882.5	22.4	Permittivity	40.00	40.97	2.43	±5
					Conductivity	1.40	1.40	0.00	±5
2026-01-10	22.7	52	1900	22.4	Permittivity	40.00	39.89	-0.27	±5
					Conductivity	1.40	1.42	1.43	±5
2026-01-10	22.7	52	1905	22.4	Permittivity	40.00	40.82	2.05	±5
					Conductivity	1.40	1.38	-1.43	±5
2026-01-10	22.7	52	2300	22.4	Permittivity	39.47	39.43	-0.09	±5
					Conductivity	1.67	1.65	-1.00	±5
2026-01-10	22.7	52	2395	22.4	Permittivity	39.30	39.85	1.41	±5
					Conductivity	1.75	1.75	-0.06	±5
2026-01-10	22.7	52	2450	22.4	Permittivity	39.20	38.78	-1.07	±5
					Conductivity	1.80	1.81	0.56	±5
2026-01-10	22.7	52	2462	22.4	Permittivity	39.18	39.36	0.46	±5
					Conductivity	1.81	1.81	-0.04	±5
2026-01-11	22.1	49	2535	21.8	Permittivity	39.09	38.85	-0.61	±5
					Conductivity	1.89	1.89	-0.04	±5
2026-01-11	22.1	49	2600	21.8	Permittivity	39.00	39.62	1.59	±5
					Conductivity	1.96	1.97	0.51	±5
2026-01-11	22.1	49	2610	21.8	Permittivity	38.99	39.53	1.39	±5
					Conductivity	1.97	1.97	-0.05	±5
2026-01-11	22.1	49	2680	21.8	Permittivity	38.90	39.25	0.90	±5
					Conductivity	2.05	2.05	0.10	±5



2026-01-11	22.1	49	5200	21.8	Permittivity	36.00	36.24	0.67	±5
					Conductivity	4.66	4.65	-0.21	±5
2026-01-11	22.1	49	5240	21.8	Permittivity	35.96	36.85	2.47	±5
					Conductivity	4.70	4.72	0.38	±5
2026-01-11	22.1	49	5300	21.8	Permittivity	35.90	35.95	0.14	±5
					Conductivity	4.77	4.75	-0.31	±5
2026-01-11	22.1	49	5500	21.8	Permittivity	35.68	36.50	2.31	±5
					Conductivity	4.96	4.96	-0.05	±5
2026-01-11	22.1	49	5600	21.8	Permittivity	35.55	35.44	-0.31	±5
					Conductivity	5.07	5.07	0.10	±5
2026-01-11	22.1	49	5800	21.8	Permittivity	35.30	35.63	0.93	±5
					Conductivity	5.27	5.27	0.00	±5
2026-01-11	22.1	49	5825	21.8	Permittivity	35.28	35.95	1.91	±5
					Conductivity	5.30	5.27	-0.50	±5

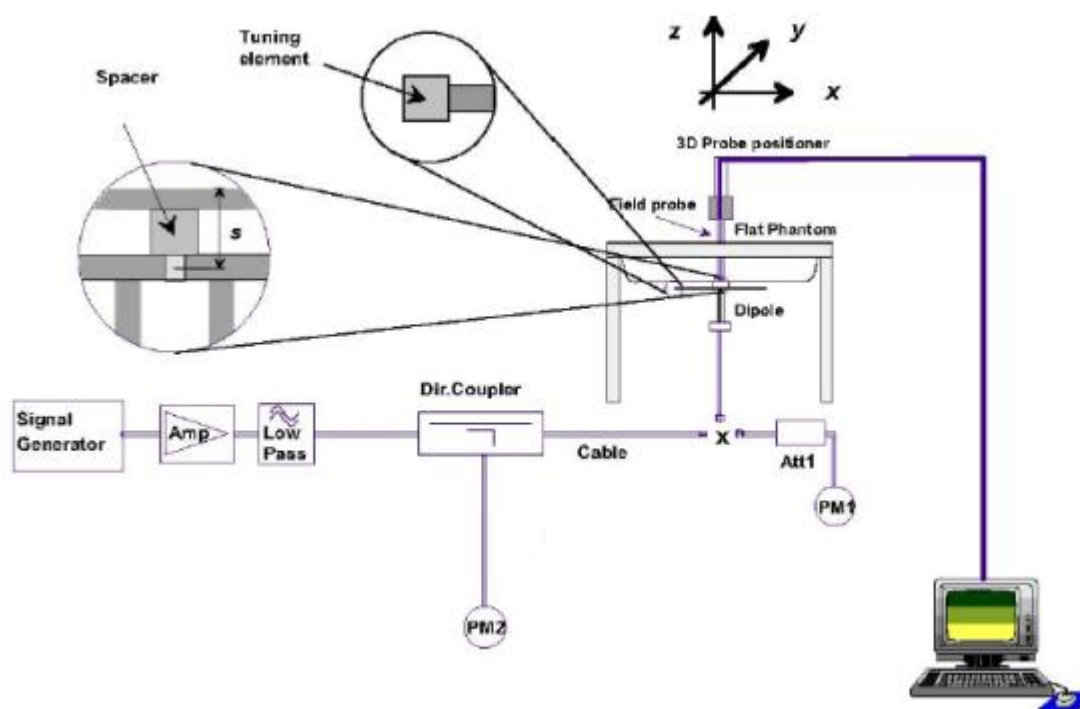
5. SAR System Validation

5.1 Validation System

The purpose of the system check is to verify that the system operates within its specifications at the device test frequency. The system check is a simple check of repeatability to make sure that the system works correctly at the time of the compliance test;

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the DASY5 system.



**5.2 Validation Result**

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-01-09	750	100 mW	0.905	0.599	1.62	8.49	5.53	6.60%	8.32%	10
		Normalize to 1 Watt	9.05	5.99						
2026-01-09	835	100 mW	1.022	0.574	1.73	9.63	6.15	6.13%	-6.67%	10
		Normalize to 1 Watt	10.22	5.74						
2026-01-10	1800	100 mW	3.741	2.038	-1.17	37.95	20.49	-1.42%	-0.54%	10
		Normalize to 1 Watt	37.41	20.38						
2026-01-10	1900	100 mW	3.987	2.003	0.66	39.84	20.20	0.08%	-0.84%	10
		Normalize to 1 Watt	39.87	20.03						
2026-01-10	2300	100 mW	4.943	2.328	-3.02	48.93	22.97	1.02%	1.35%	10
		Normalize to 1 Watt	49.43	23.28						
2026-01-10	2450	100 mW	5.527	2.417	-2.80	54.70	24.11	1.04%	0.25%	10
		Normalize to 1 Watt	55.27	24.17						
2026-01-11	2600	100 mW	5.558	2.436	3.54	56.19	24.08	-1.09%	1.16%	10
		Normalize to 1 Watt	55.58	24.36						
2026-01-11	5200	10 mW	1.565	0.535	-0.09	163.88	57.29	-4.50%	-6.62%	10
		Normalize to 1 Watt	156.50	53.50						
2026-01-11	5600	10 mW	1.760	0.662	-3.46	181.28	61.57	-2.91%	7.52%	10
		Normalize to 1 Watt	176.00	66.20						
2026-01-11	5800	10 mW	1.919	0.605	2.97	188.95	63.45	1.56%	-4.65%	10
		Normalize to 1 Watt	191.90	60.50						

Note:

(1) We use a CW signal of 20dBm(2450MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

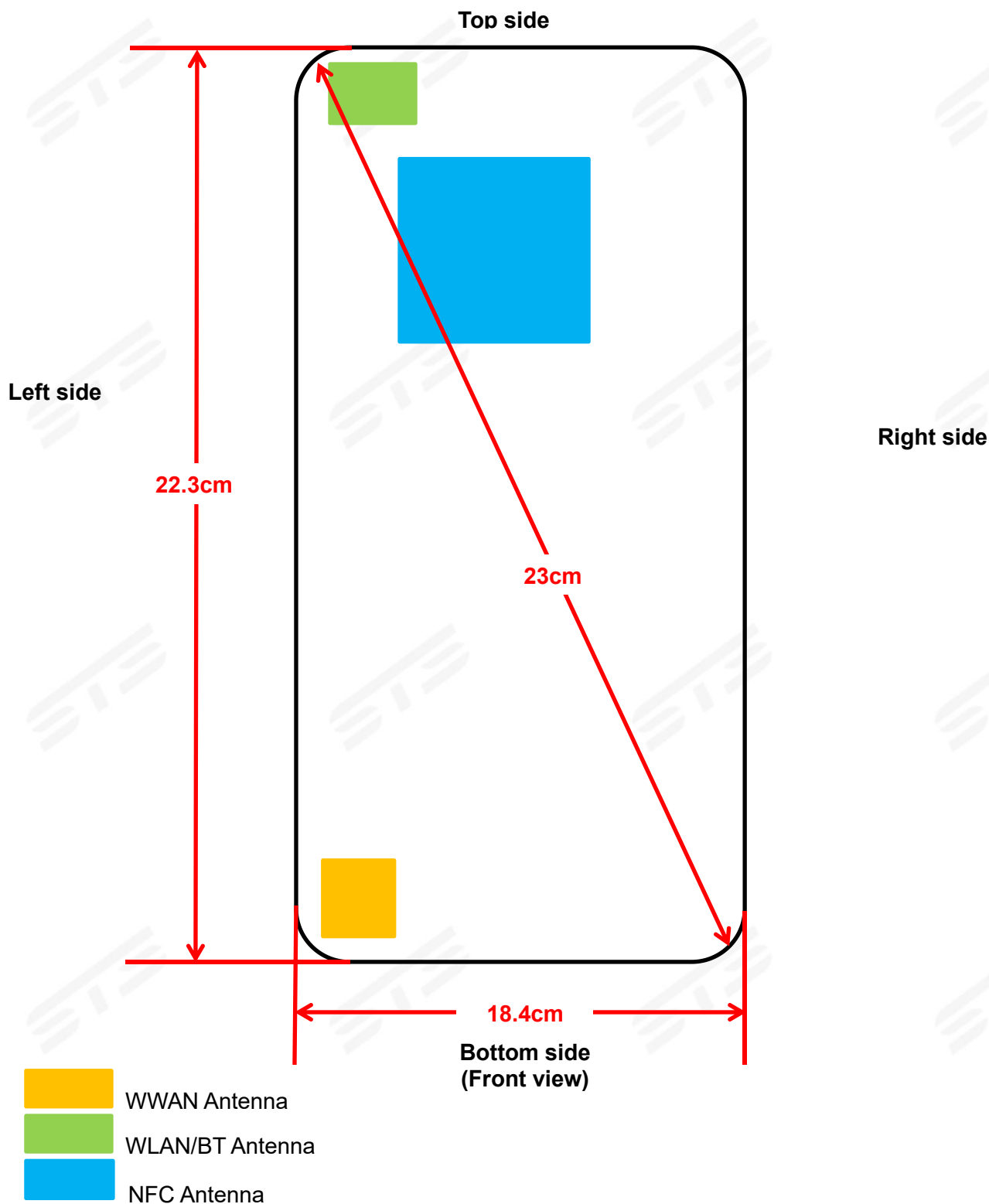
➤ Area Scan& Zoom Scan

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 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

It is a , support LTE/WLAN/BT/NFC mode.



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤0.5	≤0.5	≤0.5	7	≤0.5	20.5
WWAN-Main	≤0.5	≤0.5	≤0.5	7	20.5	≤0.5
NFC	≤0.5	≤0.5	2.5	3.5	4	16.5

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.

**7.1 SAR test exclusion consider table**

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17
	Calculated Frequency(GHz)	1.88	1.7115	0.8465	2.535	0.7005	0.7795	0.7065
	Maximum Turn-up power (dBm)	23.5	24	24.5	24	24.5	23.5	24
	Maximum rated power(mW)	223.87	251.19	281.84	251.19	281.84	223.87	251.19
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.39	3.66	9.07	2.67	11.83	10.18	11.69
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.39	3.66	9.07	2.67	11.83	10.18	11.69
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.39	3.66	9.07	2.67	11.83	10.18	11.69
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	7	7	7	7	7	7	7
	exclusion threshold(mW)	441.25	450.80	387.71	412.19	365.19	377.73	366.17
	Testing required?	NO	NO	NO	NO	NO	NO	NO
Top Side	Separation distance (cm)	20.5	20.5	20.5	20.5	20.5	20.5	20.5
	exclusion threshold(mW)	3202.60	3200.99	1788.61	3207.74	1475.62	1644.86	1488.46
	Testing required?	NO	NO	NO	NO	NO	NO	NO
Bottom Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.39	3.66	9.07	2.67	11.83	10.18	11.69
	Testing required?	YES	YES	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 25	LTE Band 26	LTE Band 38	LTE Band 40	LTE Band 41	LTE Band 66
	Calculated Frequency(GHz)	1.8525	0.8475	2.5725	2.3025	2.4985	1.745
	Maximum Turn-up power (dBm)	23	24	24	15.5	23.5	24
	Maximum rated power(mW)	199.53	251.19	251.19	35.48	223.87	251.19
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.02	9.06	2.64	2.88	2.70	3.60
	Testing required?	YES	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.02	9.06	2.64	2.88	2.70	3.60
	Testing required?	YES	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.02	9.06	2.64	2.88	2.70	3.60
	Testing required?	YES	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	7	7	7	7	7	7
	exclusion threshold(mW)	496.61	387.85	410.81	421.32	413.55	448.81
	Testing required?	NO	NO	NO	NO	NO	NO
Top Side	Separation distance (cm)	20.5	20.5	20.5	20.5	20.5	20.5
	exclusion threshold(mW)	3963.87	1790.76	3207.99	3206.09	3207.49	3201.32
	Testing required?	NO	NO	NO	NO	NO	NO
Bottom Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.02	9.06	2.64	2.88	2.70	3.60
	Testing required?	YES	YES	YES	YES	YES	YES



	Wireless Interface	BT	NFC	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
Exposure Position	Calculated Frequency(GHz)	2.48	0.01356	2.462	5.24	5.3	5.5	5.825
	Maximum Turn-up power (dBm)	3	-34.5	18.5	14	13	12.5	12
	Maximum rated power(mW)	2.00	0.00	70.79	25.12	19.95	17.78	15.85
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	2.72	176.28	2.73	1.49	1.48	1.44	1.37
	Testing required?	NO	NO	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	2.72	176.28	2.73	1.49	1.48	1.44	1.37
	Testing required?	NO	NO	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	2.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	2.72	612.35	2.73	1.49	1.48	1.44	1.37
	Testing required?	NO	NO	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	7	3.5	7	7	7	7	7
	exclusion threshold(mW)	414.25	794.44	414.94	349.30	348.40	345.47	340.98
	Testing required?	NO	NO	NO	NO	NO	NO	NO
Top Side	Separation distance (cm)	≤0.5	4	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	2.72	880.90	2.73	1.49	1.48	1.44	1.37
	Testing required?	NO	NO	YES	YES	YES	YES	YES
Bottom Side	Separation distance (cm)	20.5	16.5	20.5	20.5	20.5	20.5	20.5
	exclusion threshold(mW)	3207.36	2636.83	3207.24	3220.25	3220.45	3221.09	3222.08
	Testing required?	NO	NO	NO	NO	NO	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.



4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

5. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R^2 .
1.34-30	3,450 R^2/f^2 .
30-300	3.83 R^2 .
300-1,500	0.0128 R^2f .
1,500-100,000	19.2 R^2 .



6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.
7. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.
8. Per KDB 248227, as maximum rated power for U-NII-2A > U-NII-1, U-NII-2A was chosen for SAR evaluation. Based on the measurements obtained, SAR measurements on U-NII-1 are not required as highest reported SAR from U-NII-2A band is $\leq 1.2\text{W/Kg}$.

8. EUT Test Position

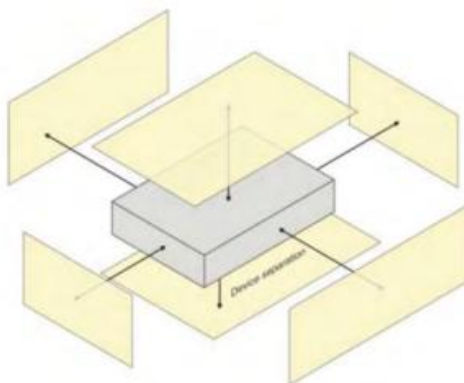
This EUT was tested in Front Face, Rear Face, Left Side, Top Side and Bottom Side.

8.1 Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.

8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	



System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



。 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	∞
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	∞
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	



10. Conducted Power Measurement

10.1 Test Result

2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
802.11b	1	2412	16.51	44.77
	7	2437	16.63	46.03
	11	2462	17.24	52.97
802.11g	1	2412	16.4	43.65
	7	2437	17.38	54.70
	11	2462	17.36	54.45
802.11 n-HT20	1	2412	17.99	62.95
	7	2437	18.42	69.50
	11	2462	18.45	69.98
802.11 n-HT40	3	2422	16.75	47.32
	6	2437	14.84	30.48
	9	2452	17.21	52.60

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	0.58	1.14
	39	2441	1.9	1.55
	78	2480	2.98	1.99
$\pi/4$ -QPSK(2Mbps)	0	2402	-0.22	0.95
	39	2441	1.1	1.29
	78	2480	2.09	1.62
8DPSK(3Mbps)	0	2402	-0.21	0.95
	39	2441	1.1	1.29
	78	2480	2.07	1.61

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-1.24	0.75
	19	2440	0.06	1.01
	39	2480	0.95	1.24
GFSK(2Mbps)	0	2402	-1.03	0.79
	19	2440	0.01	1.00
	39	2480	1.12	1.29

**WLAN (5.2Gband)**

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	36	5180	10.39	10.94
	40	5200	10.96	12.47
	48	5240	12.84	19.23
802.11 n-HT20	36	5180	11.1	12.88
	40	5200	11.66	14.66
	48	5240	13.61	22.96
802.11 n-HT40	38	5190	10.69	11.72
	46	5230	12.34	17.14
802.11ac-VHT20	36	5180	10.28	10.67
	40	5200	10.75	11.89
	48	5240	12.72	18.71
802.11ac-VHT40	38	5190	10.69	11.72
	46	5230	12.23	16.71
802.11ac-VHT80	42	5210	11.58	14.39

WLAN (5.3Gband)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	52	5260	12.79	19.01
	60	5300	12.96	19.77
	64	5320	12.96	19.77
802.11 n-HT20	52	5260	13.54	22.59
	60	5300	13.65	23.17
	64	5320	13.63	23.07
802.11 n-HT40	54	5270	12.68	18.54
	62	5310	12.76	18.88
802.11ac-VHT20	52	5260	12.01	15.89
	60	5300	12.25	16.79
	64	5320	12.29	16.94
802.11ac-VHT40	54	5270	12.23	16.71
	62	5310	12.26	16.83
802.11ac-VHT80	58	5290	12.36	17.22

**WLAN (5.6Gband)**

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	100	5500	10.47	11.14
	116	5580	8.6	7.24
	140	5700	8.38	6.89
802.11 n-HT20	100	5500	12.37	17.26
	116	5580	10.55	11.35
	140	5700	10.3	10.72
802.11 n-HT40	102	5510	11.28	13.43
	110	5550	10.47	11.14
	134	5670	9.51	8.93
802.11ac-VHT20	100	5500	11.08	12.82
	116	5580	9.35	8.61
	140	5700	9.27	8.45
802.11ac-VHT40	102	5510	11.36	13.68
	110	5550	10.52	11.27
	134	5670	9.6	9.12
802.11ac-VHT80	106	5530	11.09	12.85
	122	5610	9.99	9.98

WLAN (5.8Gband)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	149	5745	8.61	7.26
	157	5785	9.92	9.82
	165	5825	10.76	11.91
802.11 n-HT20	149	5745	9.57	9.06
	157	5785	10.89	12.27
	165	5825	11.69	14.76
802.11 n-HT40	151	5755	9.18	8.28
	159	5795	10.56	11.38
802.11ac-VHT20	149	5745	8.55	7.16
	157	5785	9.76	9.46
	165	5825	10.64	11.59
802.11ac-VHT40	151	5755	9.16	8.24
	159	5795	10.63	11.56
802.11ac-VHT80	155	5775	10.13	10.30

NFC:

NFC			
Mode	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
MASK	13.56	-34.63	0.00



LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, 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 for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, 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 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.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $> \text{not } \frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.74	22.6	22.51
1.4	1	2		22.87	22.77	22.66
1.4	1	5		22.77	22.61	22.48
1.4	3	0		22.81	22.76	22.59
1.4	3	1		22.82	22.75	22.6
1.4	3	2		22.84	22.77	22.52
1.4	6	0		21.74	21.66	21.5
1.4	1	0	16-QAM	21.66	21.76	21.81
1.4	1	2		21.79	21.91	21.98
1.4	1	5		21.65	21.69	21.82
1.4	3	0		21.8	21.85	21.75
1.4	3	1		21.85	21.87	21.78
1.4	3	2		21.85	21.85	21.73
1.4	6	0		20.91	20.99	20.66
3	1	0	QPSK	22.79	22.83	22.67
3	1	7		23.02	23.15	22.92
3	1	14		22.76	22.87	22.6
3	8	0		21.76	21.75	21.56
3	8	4		21.79	21.77	21.6
3	8	7		21.77	21.77	21.61
3	15	0		21.77	21.75	21.64
3	1	0	16-QAM	21.89	22.11	21.94
3	1	7		22.13	22.44	22.27
3	1	14		21.85	22.17	21.87
3	8	0		20.9	20.81	20.75
3	8	4		20.9	20.84	20.78
3	8	7		20.92	20.84	20.78
3	15	0		20.73	20.94	20.64



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.65	22.67	22.55
5	1	12		22.79	23.07	22.96
5	1	24		22.61	22.72	22.46
5	12	0		21.68	21.63	21.49
5	12	6		21.77	21.79	21.67
5	12	11		21.79	21.76	21.7
5	25	0		21.73	21.74	21.62
5	1	0	16-QAM	21.87	21.75	21.96
5	1	12		22.25	22.21	22.34
5	1	24		21.79	21.75	21.82
5	12	0		20.83	20.81	20.58
5	12	6		20.92	20.96	20.76
5	12	11		20.91	20.94	20.78
5	25	0		20.77	20.84	20.73
10	1	0	QPSK	22.74	22.6	22.59
10	1	24		22.9	22.82	22.78
10	1	49		22.7	22.65	22.49
10	25	0		21.72	21.74	21.74
10	25	12		21.73	21.82	21.76
10	25	24		21.75	21.94	21.98
10	50	0		21.78	21.87	21.87
10	1	0	16-QAM	22.04	21.87	21.71
10	1	24		22.15	22.14	21.93
10	1	49		21.89	21.96	21.6
10	25	0		20.83	20.91	20.87
10	25	12		20.83	20.95	20.92
10	25	24		20.83	21.09	21.08
10	50	0		20.82	20.94	20.99



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.56	22.41	22.58
15	1	37		23.05	22.95	22.95
15	1	74		22.47	22.46	22.46
15	36	0		21.69	21.65	21.87
15	36	18		21.77	21.73	21.72
15	36	39		21.66	21.81	21.77
15	75	0		21.75	21.75	21.83
15	1	0	16-QAM	21.83	21.52	21.57
15	1	38		22.13	22.09	22.08
15	1	75		21.68	21.6	21.47
15	36	0		20.71	20.76	20.88
15	36	18		20.79	20.81	20.77
15	36	39		20.65	20.9	20.81
15	75	0		20.74	20.79	20.9
20	1	0	QPSK	22.42	22.33	22.42
20	1	49		22.85	22.85	22.78
20	1	99		22.32	22.39	22.31
20	50	0		21.69	21.71	22.18
20	50	24		21.71	21.75	21.83
20	50	49		21.39	21.91	21.89
20	100	0		21.52	21.87	22.11
20	1	0	16-QAM	21.63	21.34	21.48
20	1	49		21.94	21.91	21.88
20	1	99		21.44	21.48	21.38
20	50	0		20.78	20.82	21.3
20	50	24		20.78	20.91	20.94
20	50	49		20.45	21.04	21.02
20	100	0		20.56	20.95	21.18



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.27	23.08	23.11
1.4	1	2		23.41	23.25	23.25
1.4	1	5		23.28	23.12	23.08
1.4	3	0		23.37	23.09	23.15
1.4	3	1		23.39	23.16	23.17
1.4	3	2		23.37	23.17	23.14
1.4	6	0		22.34	22.23	22.13
1.4	1	0	16-QAM	22.23	22.03	22.34
1.4	1	2		22.36	22.18	22.47
1.4	1	5		22.23	22.03	22.31
1.4	3	0		22.43	22.11	22.28
1.4	3	1		22.44	22.14	22.28
1.4	3	2		22.43	22.05	22.29
1.4	6	0		21.48	21.34	21.25
3	1	0	QPSK	23.35	23.24	23.21
3	1	7		23.68	23.52	23.46
3	1	14		23.27	23.29	23.26
3	8	0		22.36	22.27	22.23
3	8	4		22.4	22.28	22.23
3	8	7		22.39	22.26	22.2
3	15	0		22.37	22.17	22.19
3	1	0	16-QAM	22.62	22.15	22.48
3	1	7		22.9	22.43	22.74
3	1	14		22.57	22.18	22.42
3	8	0		21.46	21.3	21.24
3	8	4		21.44	21.31	21.29
3	8	7		21.42	21.31	21.21
3	15	0		21.31	21.13	21.32



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.18	23.02	23.13
5	1	12		23.57	23.48	23.58
5	1	24		23.11	23.09	23.1
5	12	0		22.31	22.11	22.13
5	12	6		22.36	22.16	22.2
5	12	11		22.29	22.12	22.15
5	25	0		22.32	22.12	22.16
5	1	0	16-QAM	22.6	22.12	22.19
5	1	12		22.91	22.51	22.57
5	1	24		22.58	22.12	22.13
5	12	0		21.28	21.19	21.28
5	12	6		21.37	21.27	21.32
5	12	11		21.32	21.22	21.29
5	25	0		21.35	21.1	21.21
10	1	0	QPSK	23.22	23.06	23.15
10	1	24		23.38	23.33	23.33
10	1	49		23.11	23.13	23.1
10	25	0		22.36	22.22	22.23
10	25	12		22.33	22.18	22.17
10	25	24		22.36	22.21	22.2
10	50	0		22.36	22.18	22.22
10	1	0	16-QAM	22.49	22.03	22.34
10	1	24		22.65	22.24	22.56
10	1	49		22.36	22.09	22.29
10	25	0		21.45	21.22	21.27
10	25	12		21.42	21.22	21.24
10	25	24		21.45	21.24	21.29
10	50	0		21.36	21.23	21.28



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.19	22.93	22.98
15	1	37		23.4	23.44	23.32
15	1	74		23.07	22.98	22.92
15	36	0		22.33	22.29	22.3
15	36	18		22.29	22.31	22.23
15	36	39		22.29	22.27	22.21
15	75	0		22.33	22.27	22.27
15	1	0	16-QAM	22.2	22.14	22
15	1	38		22.49	22.49	22.4
15	1	75		21.96	22.14	21.99
15	36	0		21.26	21.14	21.27
15	36	18		21.27	21.18	21.27
15	36	39		21.2	21.2	21.23
15	75	0		21.29	21.23	21.26
20	1	0	QPSK	22.95	22.87	22.83
20	1	49		23.27	23.31	23.3
20	1	99		22.84	22.92	22.81
20	50	0		22.25	22.19	22.2
20	50	24		22.24	22.13	22.21
20	50	49		22.2	22.18	22.19
20	100	0		22.26	22.19	22.21
20	1	0	16-QAM	22.06	21.91	21.9
20	1	49		22.29	22.21	22.42
20	1	99		21.84	21.94	21.99
20	50	0		21.33	21.17	21.27
20	50	24		21.25	21.16	21.24
20	50	49		21.21	21.27	21.29
20	100	0		21.28	21.21	21.28



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.75	23.63	23.84
1.4	1	2		23.85	23.78	23.96
1.4	1	5		23.72	23.59	23.8
1.4	3	0		23.73	23.71	23.86
1.4	3	1		23.73	23.73	23.88
1.4	3	2		23.73	23.73	23.83
1.4	6	0		22.66	22.67	22.82
1.4	1	0	16-QAM	22.62	22.7	23.11
1.4	1	2		22.75	22.86	23.24
1.4	1	5		22.61	22.75	23.1
1.4	3	0		22.74	22.78	22.92
1.4	3	1		22.77	22.8	23.03
1.4	3	2		22.77	22.87	22.99
1.4	6	0		21.86	21.96	21.96
3	1	0	QPSK	23.82	23.73	23.9
3	1	7		24.02	24.17	24.17
3	1	14		23.87	23.8	23.88
3	8	0		22.75	22.74	22.88
3	8	4		22.76	22.81	22.9
3	8	7		22.72	22.78	22.88
3	15	0		22.71	22.78	22.87
3	1	0	16-QAM	23.12	23.02	23.01
3	1	7		23.35	23.32	23.27
3	1	14		23.08	23.05	22.99
3	8	0		21.84	21.85	22.02
3	8	4		21.81	21.89	22.02
3	8	7		21.77	21.93	21.99
3	15	0		21.89	21.74	21.82



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.61	23.56	23.76
5	1	12		24	24.01	24.18
5	1	24		23.57	23.63	23.79
5	12	0		22.67	22.68	22.81
5	12	6		22.71	22.74	22.89
5	12	11		22.57	22.69	22.79
5	25	0		22.65	22.69	22.83
5	1	0	16-QAM	22.99	22.77	22.81
5	1	12		23.37	23.15	23.27
5	1	24		22.91	22.82	22.86
5	12	0		21.71	21.81	21.97
5	12	6		21.72	21.9	22.04
5	12	11		21.67	21.81	21.99
5	25	0		21.72	21.73	21.94
10	1	0	QPSK	23.7	23.59	23.65
10	1	24		23.8	23.81	23.91
10	1	49		23.62	23.72	23.78
10	25	0		22.66	22.76	22.95
10	25	12		22.67	22.76	22.86
10	25	24		22.66	22.7	22.92
10	50	0		22.64	22.74	22.92
10	1	0	16-QAM	22.97	22.84	22.74
10	1	24		23.1	23.09	22.98
10	1	49		22.93	22.97	22.86
10	25	0		21.74	21.86	22.02
10	25	12		21.73	21.9	21.98
10	25	24		21.7	21.83	22
10	50	0		21.73	21.83	22.01



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.83	23.09	22.94
5	1	12		23.2	23.48	23.41
5	1	24		22.89	23.15	23.01
5	12	0		22	22.23	21.98
5	12	6		22	22.32	22.08
5	12	11		21.92	22.24	22.04
5	25	0		21.95	22.24	22.04
5	1	0	16-QAM	22.21	22.29	22.07
5	1	12		22.66	22.69	22.41
5	1	24		22.27	22.32	22.1
5	12	0		20.93	21.27	21.06
5	12	6		20.97	21.37	21.2
5	12	11		20.86	21.3	21.11
5	25	0		20.92	21.19	21
10	1	0	QPSK	22.88	23.16	22.91
10	1	24		23.16	23.37	23.12
10	1	49		23.03	23.16	22.97
10	25	0		22.09	22.28	22.01
10	25	12		22.05	22.3	22.11
10	25	24		21.95	22.3	22.22
10	50	0		22.05	22.25	22.13
10	1	0	16-QAM	22.12	22.37	22.01
10	1	24		22.42	22.61	22.25
10	1	49		22.32	22.44	22.07
10	25	0		21.09	21.35	21.07
10	25	12		21.09	21.41	21.14
10	25	24		20.9	21.34	21.28
10	50	0		21.09	21.32	21.15



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.78	23.07	22.81
15	1	37		23.37	23.63	23.36
15	1	74		22.82	23.07	22.83
15	36	0		22.08	22.23	22.02
15	36	18		22.06	22.32	22.09
15	36	39		21.96	22.22	22.14
15	75	0		22	22.26	22.09
15	1	0	16-QAM	21.71	22.31	21.95
15	1	37		22.36	22.71	22.39
15	1	74		21.84	22.27	21.93
15	36	0		21	21.18	21.04
15	36	18		21.03	21.28	21.11
15	36	39		20.87	21.22	21.15
15	75	0		20.98	21.21	21.06
20	1	0	QPSK	22.55	22.97	22.73
20	1	49		23.05	23.44	23.08
20	1	99		22.62	23.03	22.75
20	50	0		22.16	22.12	22.13
20	50	24		21.97	22.26	22.1
20	50	49		21.83	22.09	22.22
20	100	0		22.03	22.09	22.22
20	1	0	16-QAM	21.56	21.99	22.01
20	1	49		22.14	22.42	22.28
20	1	99		21.72	22.07	21.98
20	50	0		21.19	21.15	21.17
20	50	24		21.01	21.27	21.15
20	50	49		20.87	21.17	21.23
20	100	0		21.08	21.15	21.23



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.72	23.64	23.56
1.4	1	2		23.84	23.76	23.78
1.4	1	5		23.65	23.63	23.58
1.4	3	0		23.73	23.71	23.54
1.4	3	1		23.75	23.71	23.59
1.4	3	2		23.73	23.7	23.58
1.4	6	0		22.73	22.63	22.71
1.4	1	0	16-QAM	22.94	22.53	22.46
1.4	1	2		23.06	22.64	22.66
1.4	1	5		22.94	22.52	22.47
1.4	3	0		22.89	22.66	22.55
1.4	3	1		22.9	22.7	22.57
1.4	3	2		22.87	22.69	22.53
1.4	6	0		21.8	21.76	21.75
3	1	0	QPSK	23.77	23.72	23.66
3	1	7		24.1	24.03	24.25
3	1	14		23.7	23.66	23.74
3	8	0		22.77	22.76	22.73
3	8	4		22.77	22.74	22.75
3	8	7		22.75	22.71	22.74
3	15	0		22.77	22.72	22.65
3	1	0	16-QAM	22.97	22.71	22.84
3	1	7		23.29	22.98	23.13
3	1	14		22.95	22.73	22.82
3	8	0		21.81	21.78	21.61
3	8	4		21.82	21.81	21.63
3	8	7		21.8	21.74	21.63
3	15	0		21.69	21.58	21.69



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.65	23.53	23.5
5	1	12		24.05	23.9	23.9
5	1	24		23.64	23.54	23.57
5	12	0		22.65	22.68	22.64
5	12	6		22.71	22.69	22.65
5	12	11		22.67	22.66	22.54
5	25	0		22.67	22.62	22.57
5	1	0	16-QAM	22.72	22.86	22.64
5	1	12		23.19	23.21	22.86
5	1	24		22.71	22.91	22.54
5	12	0		21.79	21.63	21.72
5	12	6		21.84	21.7	21.68
5	12	11		21.73	21.65	21.57
5	25	0		21.7	21.69	21.58
10	1	0	QPSK	23.62	23.59	23.58
10	1	24		23.8	23.75	23.77
10	1	49		23.6	23.61	23.62
10	25	0		22.72	22.69	22.68
10	25	12		22.67	22.67	22.66
10	25	24		22.69	22.63	22.6
10	50	0		22.7	22.67	22.66
10	1	0	16-QAM	22.84	22.62	22.79
10	1	24		22.96	22.78	22.98
10	1	49		22.78	22.6	22.72
10	25	0		21.8	21.7	21.68
10	25	12		21.79	21.73	21.66
10	25	24		21.79	21.65	21.62
10	50	0		21.72	21.69	21.66



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.14	23.11	23.15
5	1	12		23.47	23.45	23.43
5	1	24		23.08	23.06	23.13
5	12	0		22.21	22.17	22.2
5	12	6		22.31	22.28	22.27
5	12	11		22.22	22.16	22.14
5	25	0		22.25	22.17	22.21
5	1	0	16-QAM	22.56	22.37	22.27
5	1	12		22.92	22.63	22.64
5	1	24		22.5	22.35	22.23
5	12	0		21.19	21.3	21.34
5	12	6		21.26	21.35	21.4
5	12	11		21.19	21.24	21.25
5	25	0		21.26	21.19	21.22
10	1	0	QPSK	/	23.23	/
10	1	24		/	23.38	/
10	1	49		/	23.21	/
10	25	0		/	22.21	/
10	25	12		/	22.27	/
10	25	24		/	22.16	/
10	50	0		/	22.26	/
10	1	0	16-QAM	/	22.57	/
10	1	24		/	22.66	/
10	1	49		/	22.51	/
10	25	0		/	21.23	/
10	25	12		/	21.29	/
10	25	24		/	21.21	/
10	50	0		/	21.24	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.44	23.48	23.51
5	1	12		23.87	23.81	23.92
5	1	24		23.5	23.43	23.54
5	12	0		22.51	22.59	22.53
5	12	6		22.67	22.62	22.56
5	12	11		22.6	22.53	22.49
5	25	0		22.61	22.53	22.53
5	1	0	16-QAM	22.81	22.58	22.57
5	1	12		23.21	22.9	22.91
5	1	24		22.86	22.52	22.55
5	12	0		21.52	21.62	21.63
5	12	6		21.62	21.67	21.65
5	12	11		21.59	21.58	21.52
5	25	0		21.63	21.54	21.52
10	1	0	QPSK	23.50	23.53	23.50
10	1	24		23.72	23.74	23.64
10	1	49		23.53	23.56	23.55
10	25	0		22.63	22.63	22.61
10	25	12		22.66	22.6	22.60
10	25	24		22.55	22.52	22.56
10	50	0		22.59	22.58	22.58
10	1	0	16-QAM	22.53	22.77	22.66
10	1	24		22.73	22.97	22.89
10	1	49		22.47	22.67	22.63
10	25	0		21.66	21.66	21.71
10	25	12		21.66	21.65	21.73
10	25	24		21.58	21.54	21.64
10	50	0		21.63	21.6	21.61



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.54	22.65	22.3
1.4	1	2		22.65	22.79	22.43
1.4	1	5		22.5	22.65	22.26
1.4	3	0		22.58	22.62	22.39
1.4	3	1		22.58	22.65	22.41
1.4	3	2		22.56	22.67	22.45
1.4	6	0		21.53	21.57	21.35
1.4	1	0	16-QAM	21.83	21.49	21.38
1.4	1	2		21.98	21.64	21.57
1.4	1	5		21.86	21.53	21.41
1.4	3	0		21.8	21.7	21.49
1.4	3	1		21.79	21.68	21.46
1.4	3	2		21.81	21.74	21.42
1.4	6	0		20.64	20.78	20.57
3	1	0	QPSK	22.62	22.69	22.46
3	1	7		22.93	22.86	22.77
3	1	14		22.65	22.63	22.47
3	8	0		21.61	21.59	21.52
3	8	4		21.64	21.65	21.49
3	8	7		21.62	21.62	21.39
3	15	0		21.61	21.66	21.49
3	1	0	16-QAM	21.98	21.97	21.52
3	1	7		22.07	22.19	21.84
3	1	14		21.97	21.99	21.55
3	8	0		20.6	20.76	20.66
3	8	4		20.65	20.81	20.68
3	8	7		20.66	20.85	20.55
3	15	0		20.71	20.68	20.42



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.51	22.51	22.31
5	1	12		22.98	22.97	22.74
5	1	24		22.51	22.53	22.25
5	12	0		21.56	21.53	21.47
5	12	6		21.63	21.63	21.49
5	12	11		21.63	21.7	21.17
5	25	0		21.63	21.63	21.33
5	1	0	16-QAM	21.58	21.92	21.55
5	1	12		22.04	22.31	21.84
5	1	24		21.67	21.89	21.46
5	12	0		20.7	20.58	20.58
5	12	6		20.75	20.72	20.62
5	12	11		20.78	20.72	20.33
5	25	0		20.62	20.73	20.38
10	1	0	QPSK	22.5	22.52	22.43
10	1	24		22.72	22.73	22.52
10	1	49		22.53	22.53	22.32
10	25	0		21.6	21.54	21.3
10	25	12		21.66	21.7	21.45
10	25	24		21.66	21.77	21.18
10	50	0		21.67	21.69	21.22
10	1	0	16-QAM	21.87	21.77	21.54
10	1	24		22.07	22.09	21.62
10	1	49		21.78	21.82	21.42
10	25	0		20.62	20.69	20.41
10	25	12		20.69	20.86	20.62
10	25	24		20.67	20.94	20.28
10	50	0		20.69	20.81	20.37



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.31	22.45	22.35
15	1	37		22.78	22.98	22.74
15	1	74		22.29	22.48	22.24
15	36	0		21.54	21.48	21.47
15	36	18		21.67	21.6	21.52
15	36	39		21.54	21.68	21.37
15	75	0		21.59	21.6	21.44
15	1	0	16-QAM	21.54	21.46	21.62
15	1	38		21.83	21.98	22.11
15	1	75		21.38	21.51	21.47
15	36	0		20.54	20.53	20.51
15	36	18		20.61	20.65	20.6
15	36	39		20.47	20.71	20.43
15	75	0		20.51	20.66	20.49
20	1	0	QPSK	22.18	22.22	22.23
20	1	49		22.62	22.71	22.64
20	1	99		22.09	22.32	22.13
20	50	0		21.59	21.45	21.8
20	50	24		21.55	21.65	21.64
20	50	49		21.26	21.75	21.64
20	100	0		21.34	21.63	21.72
20	1	0	16-QAM	21.36	21.31	21.43
20	1	49		21.66	21.88	21.83
20	1	99		21.18	21.38	21.34
20	50	0		20.6	20.63	20.95
20	50	24		20.57	20.77	20.76
20	50	49		20.24	20.87	20.74
20	100	0		20.38	20.72	20.82



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.04	23.18	23.3
1.4	1	2		23.2	23.31	23.47
1.4	1	5		23.01	23.19	23.3
1.4	3	0		23.17	23.2	23.32
1.4	3	1		23.18	23.17	23.33
1.4	3	2		23.21	23.2	23.31
1.4	6	0		22.09	22.16	22.25
1.4	1	0	16-QAM	22.13	22.44	22.24
1.4	1	2		22.33	22.59	22.33
1.4	1	5		22.13	22.45	22.19
1.4	3	0		22.24	22.36	22.35
1.4	3	1		22.26	22.37	22.38
1.4	3	2		22.22	22.4	22.36
1.4	6	0		21.38	21.33	21.46
3	1	0	QPSK	23.2	23.23	23.39
3	1	7		23.55	23.66	23.86
3	1	14		23.13	23.22	23.45
3	8	0		22.16	22.2	22.33
3	8	4		22.2	22.27	22.37
3	8	7		22.13	22.21	22.34
3	15	0		22.18	22.22	22.33
3	1	0	16-QAM	22.47	22.33	22.76
3	1	7		22.76	22.57	23.12
3	1	14		22.47	22.34	22.71
3	8	0		21.33	21.34	21.4
3	8	4		21.34	21.37	21.41
3	8	7		21.31	21.38	21.38
3	15	0		21.18	21.2	21.48



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.15	23.06	23.09
5	1	12		23.41	23.49	23.58
5	1	24		23.1	23.12	23.18
5	12	0		22.04	22.15	22.22
5	12	6		22.15	22.22	22.33
5	12	11		22.08	22.08	22.28
5	25	0		22.11	22.18	22.31
5	1	0	16-QAM	22.17	22.44	22.36
5	1	12		22.5	22.87	22.73
5	1	24		22.15	22.46	22.38
5	12	0		21.28	21.14	21.42
5	12	6		21.34	21.3	21.48
5	12	11		21.27	21.15	21.41
5	25	0		21.2	21.25	21.35
10	1	0	QPSK	23.07	23.04	23.19
10	1	24		23.25	23.28	23.42
10	1	49		23.06	23.16	23.28
10	25	0		22.11	22.18	22.39
10	25	12		22.14	22.23	22.3
10	25	24		22.15	22.11	22.41
10	50	0		22.13	22.18	22.38
10	1	0	16-QAM	22.34	22.19	22.51
10	1	24		22.49	22.37	22.74
10	1	49		22.36	22.25	22.59
10	25	0		21.26	21.31	21.48
10	25	12		21.28	21.33	21.37
10	25	24		21.31	21.25	21.47
10	50	0		21.22	21.32	21.52



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.04	22.94	22.93
15	1	37		23.47	23.3	23.4
15	1	74		23.08	23.05	23.08
15	36	0		22.03	22.09	22.13
15	36	18		22.13	22.18	22.24
15	36	39		22.08	22.11	22.15
15	75	0		22.09	22.11	22.19
15	1	0	16-QAM	22.09	22.21	22.03
15	1	38		22.5	22.64	22.54
15	1	75		22.09	22.31	22.2
15	36	0		21.05	21.2	21.24
15	36	18		21.19	21.24	21.3
15	36	39		21.12	21.11	21.26
15	75	0		21.16	21.15	21.29



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.22	23.16	23.1
1.4	1	2		23.34	23.32	23.23
1.4	1	5		23.13	23.18	23.02
1.4	3	0		23.24	23.21	23.21
1.4	3	1		23.26	23.22	23.22
1.4	3	2		23.19	23.2	23.21
1.4	6	0		22.2	22.19	22.15
1.4	1	0	16-QAM	22.57	22.17	22.19
1.4	1	2		22.65	22.27	22.36
1.4	1	5		22.47	22.16	22.19
1.4	3	0		22.46	22.28	22.29
1.4	3	1		22.48	22.31	22.29
1.4	3	2		22.44	22.3	22.28
1.4	6	0		21.32	21.34	21.4
3	1	0	QPSK	23.31	23.18	23.32
3	1	7		23.54	23.5	23.59
3	1	14		23.2	23.24	23.29
3	8	0		22.25	22.28	22.23
3	8	4		22.28	22.26	22.23
3	8	7		22.28	22.27	22.22
3	15	0		22.29	22.3	22.23
3	1	0	16-QAM	22.57	22.29	22.64
3	1	7		22.85	22.59	22.89
3	1	14		22.5	22.32	22.57
3	8	0		21.35	21.37	21.24
3	8	4		21.37	21.35	21.28
3	8	7		21.35	21.36	21.26
3	15	0		21.24	21.16	21.34



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.06	23.1	23.08
5	1	12		23.34	23.48	23.58
5	1	24		23.05	23.12	23.09
5	12	0		22.18	22.23	22.21
5	12	6		22.24	22.25	22.2
5	12	11		22.16	22.14	22.11
5	25	0		22.23	22.18	22.17
5	1	0	16-QAM	22.38	22.21	22.53
5	1	12		22.65	22.63	22.82
5	1	24		22.33	22.22	22.46
5	12	0		21.25	21.31	21.16
5	12	6		21.36	21.38	21.26
5	12	11		21.28	21.25	21.18
5	25	0		21.22	21.23	21.26
10	1	0	QPSK	/	23.17	/
10	1	24		/	23.37	/
10	1	49		/	23.15	/
10	25	0		/	22.26	/
10	25	12		/	22.22	/
10	25	24		/	22.17	/
10	50	0		/	22.23	/
10	1	0	16-QAM	/	22.5	/
10	1	24		/	22.66	/
10	1	49		/	22.46	/
10	25	0		/	21.26	/
10	25	12		/	21.25	/
10	25	24		/	21.21	/
10	50	0		/	21.28	/



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.66	22.56	23.27
5	1	12		22.95	22.88	23.57
5	1	24		22.71	22.6	23.32
5	12	0		21.75	21.78	22.39
5	12	6		21.82	21.8	22.46
5	12	11		21.74	21.73	22.36
5	25	0		21.79	21.75	22.39
5	1	0	16-QAM	22.06	21.77	22.36
5	1	12		22.38	22.07	22.66
5	1	24		22.14	21.79	22.39
5	12	0		20.76	20.89	21.51
5	12	6		20.84	20.94	21.59
5	12	11		20.72	20.83	21.49
5	25	0		20.79	20.73	21.41
10	1	0	QPSK	22.65	22.6	23.08
10	1	24		22.92	22.84	23.38
10	1	49		22.79	22.67	23.17
10	25	0		21.87	21.88	22.38
10	25	12		21.85	21.84	22.4
10	25	24		21.82	21.76	22.33
10	50	0		21.84	21.83	22.38
10	1	0	16-QAM	22.04	22.1	22.2
10	1	24		22.35	22.36	22.51
10	1	49		22.23	22.18	22.27
10	25	0		20.89	21	21.49
10	25	12		20.87	20.94	21.49
10	25	24		20.85	20.89	21.43
10	50	0		20.88	20.9	21.46



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.42	22.55	22.94
15	1	37		22.9	22.95	23.38
15	1	74		22.52	22.63	23.03
15	36	0		21.79	21.75	22.24
15	36	18		21.85	21.74	22.26
15	36	39		21.77	21.72	22.2
15	75	0		21.81	21.72	22.23
15	1	0	16-QAM	21.46	21.71	22.4
15	1	37		21.98	22.07	22.87
15	1	74		21.62	21.81	22.57
15	36	0		20.82	20.75	21.23
15	36	18		20.89	20.75	21.27
15	36	39		20.79	20.67	21.2
15	75	0		20.79	20.77	21.23
20	1	0	QPSK	22.37	22.38	22.77
20	1	49		22.92	22.82	23.36
20	1	99		22.5	22.46	22.96
20	50	0		21.85	21.9	22.2
20	50	24		21.85	21.77	22.21
20	50	49		21.74	21.66	22.11
20	100	0		21.82	21.75	22.2
20	1	0	16-QAM	21.46	21.61	21.84
20	1	49		22.09	22.09	22.41
20	1	99		21.7	21.76	22.07
20	50	0		20.92	20.91	21.26
20	50	24		20.94	20.84	21.3
20	50	49		20.8	20.72	21.19
20	100	0		20.87	20.81	21.21



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	14.82	14.81	14.9
5	1	12		15.13	15.13	15.21
5	1	24		14.86	14.83	14.88
5	12	0		13.87	13.89	13.95
5	12	6		13.95	14	14.02
5	12	11		13.88	13.93	13.94
5	25	0		13.9	13.91	13.98
5	1	0	16-QAM	14.2	13.87	13.95
5	1	12		14.51	14.16	14.25
5	1	24		14.21	13.9	13.93
5	12	0		12.86	13	13.03
5	12	6		12.92	13.06	13.11
5	12	11		12.85	13	13.04
5	25	0		12.92	12.89	12.96
10	1	0	QPSK	/	/	14.86
10	1	24		/	/	15.16
10	1	49		/	/	14.91
10	25	0		/	/	13.97
10	25	12		/	/	13.98
10	25	24		/	/	14.01
10	50	0		/	/	14
10	1	0	16-QAM	/	/	14.23
10	1	24		/	/	14.48
10	1	49		/	/	14.25
10	25	0		/	/	13
10	25	12		/	/	12.99
10	25	24		/	/	13
10	50	0		/	/	13.03



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.51	22.54	22.84
5	1	12		22.85	22.83	23.12
5	1	24		22.59	22.53	22.8
5	12	0		21.63	21.7	21.96
5	12	6		21.66	21.76	22.03
5	12	11		21.59	21.62	21.87
5	25	0		21.6	21.68	21.93
5	1	0	16-QAM	21.88	21.73	21.95
5	1	12		22.23	22.03	22.23
5	1	24		21.98	21.72	21.94
5	12	0		20.59	20.85	21.12
5	12	6		20.67	20.88	21.2
5	12	11		20.56	20.75	21.07
5	25	0		20.72	20.66	21.02
10	1	0	QPSK	22.58	22.56	22.74
10	1	24		22.85	22.8	22.98
10	1	49		22.67	22.59	22.7
10	25	0		21.7	21.85	22.06
10	25	12		21.68	21.79	22.02
10	25	24		21.65	21.73	21.99
10	50	0		21.72	21.81	22.02
10	1	0	16-QAM	21.93	22.05	21.86
10	1	24		22.21	22.29	22.08
10	1	49		22.03	22.08	21.83
10	25	0		20.74	20.93	21.12
10	25	12		20.72	20.89	21.11
10	25	24		20.69	20.87	21.04
10	50	0		20.74	20.86	21.09



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.41	22.43	22.6
15	1	37		22.91	22.8	22.96
15	1	74		22.54	22.47	22.54
15	36	0		21.65	21.71	21.87
15	36	18		21.72	21.69	21.95
15	36	39		21.67	21.68	21.85
15	75	0		21.71	21.68	21.9
15	1	0	16-QAM	21.48	21.93	21.7
15	1	37		21.93	22.29	22.06
15	1	74		21.6	21.94	21.65
15	36	0		20.62	20.71	20.94
15	36	18		20.66	20.71	20.99
15	36	39		20.62	20.65	20.88
15	75	0		20.68	20.71	20.9
20	1	0	QPSK	22.35	22.29	22.63
20	1	49		22.89	22.8	23.05
20	1	99		22.44	22.36	22.62
20	50	0		21.68	21.81	21.91
20	50	24		21.67	21.78	21.96
20	50	49		21.64	21.67	21.87
20	100	0		21.66	21.78	21.92
20	1	0	16-QAM	21.35	21.55	21.66
20	1	49		21.87	22.05	22.11
20	1	99		21.41	21.64	21.68
20	50	0		20.72	20.86	21.02
20	50	24		20.7	20.82	21.05
20	50	49		20.69	20.69	20.93
20	100	0		20.75	20.79	20.99



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.09	22.94	22.97
1.4	1	2		23.26	23.11	23.12
1.4	1	5		23.09	22.96	22.98
1.4	3	0		23.14	23.03	23.01
1.4	3	1		23.14	23.04	23
1.4	3	2		23.16	23.07	23.01
1.4	6	0		22.13	22.1	22.07
1.4	1	0	16-QAM	22.05	22.02	22.16
1.4	1	2		22.19	22.16	22.28
1.4	1	5		22.02	22.02	22.17
1.4	3	0		22.22	22.15	22.09
1.4	3	1		22.24	22.15	22.12
1.4	3	2		22.19	22.09	22.12
1.4	6	0		21.27	21.28	21.12
3	1	0	QPSK	23.12	23.12	23.08
3	1	7		23.42	23.53	23.36
3	1	14		23.17	23.16	23.06
3	8	0		22.22	22.17	22.04
3	8	4		22.22	22.18	22.08
3	8	7		22.19	22.14	22.05
3	15	0		22.18	22.15	22.05
3	1	0	16-QAM	22.26	22.36	22.21
3	1	7		22.54	22.53	22.4
3	1	14		22.31	22.39	22.26
3	8	0		21.28	21.12	21.17
3	8	4		21.26	21.15	21.16
3	8	7		21.3	21.14	21.13
3	15	0		21.13	21.22	21.01



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23	22.94	22.93
5	1	12		23.42	23.34	23.22
5	1	24		22.98	22.92	22.95
5	12	0		22.13	22.08	21.97
5	12	6		22.2	22.15	22.02
5	12	11		22.16	22.07	21.97
5	25	0		22.13	22.1	21.97
5	1	0	16-QAM	22.41	22.08	22
5	1	12		22.7	22.57	22.4
5	1	24		22.41	22.12	22
5	12	0		21.12	21.16	21.12
5	12	6		21.15	21.2	21.16
5	12	11		21.18	21.16	21.08
5	25	0		21.21	21.08	21.02
10	1	0	QPSK	22.99	23.01	22.79
10	1	24		23.2	23.2	23.11
10	1	49		22.98	23.02	22.94
10	25	0		22.2	22.13	21.98
10	25	12		22.18	22.14	21.98
10	25	24		22.2	22.16	22.01
10	50	0		22.16	22.14	22.04
10	1	0	16-QAM	22.1	22.23	21.97
10	1	24		22.31	22.43	22.27
10	1	49		22.05	22.28	22.1
10	25	0		21.24	21.17	21.08
10	25	12		21.23	21.14	21.11
10	25	24		21.19	21.16	21.13
10	50	0		21.24	21.19	21.09



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.91	22.82	22.75
15	1	37		23.31	23.23	23.19
15	1	74		22.82	22.79	22.9
15	36	0		22.14	22.21	21.98
15	36	18		22.15	22.2	22.02
15	36	39		22.17	22.15	22.01
15	75	0		22.16	22.16	22.01
15	1	0	16-QAM	22.19	21.85	21.65
15	1	38		22.58	22.31	22.14
15	1	75		22	21.89	21.82
15	36	0		21.11	21.16	20.92
15	36	18		21.1	21.14	20.94
15	36	39		21.09	21.11	21
15	75	0		21.14	21.11	21.04
20	1	0	QPSK	22.73	22.67	22.51
20	1	49		23.14	23.17	22.95
20	1	99		22.68	22.69	22.67
20	50	0		22.16	22.13	21.97
20	50	24		22.04	22.1	21.87
20	50	49		22.01	22.12	21.9
20	100	0		22.04	22.13	21.96
20	1	0	16-QAM	21.88	21.71	21.66
20	1	49		22.18	22.23	22.04
20	1	99		21.67	21.75	21.81
20	50	0		21.16	21.15	21.01
20	50	24		21.1	21.13	20.95
20	50	49		21.07	21.15	20.94
20	100	0		21.12	21.16	21.02



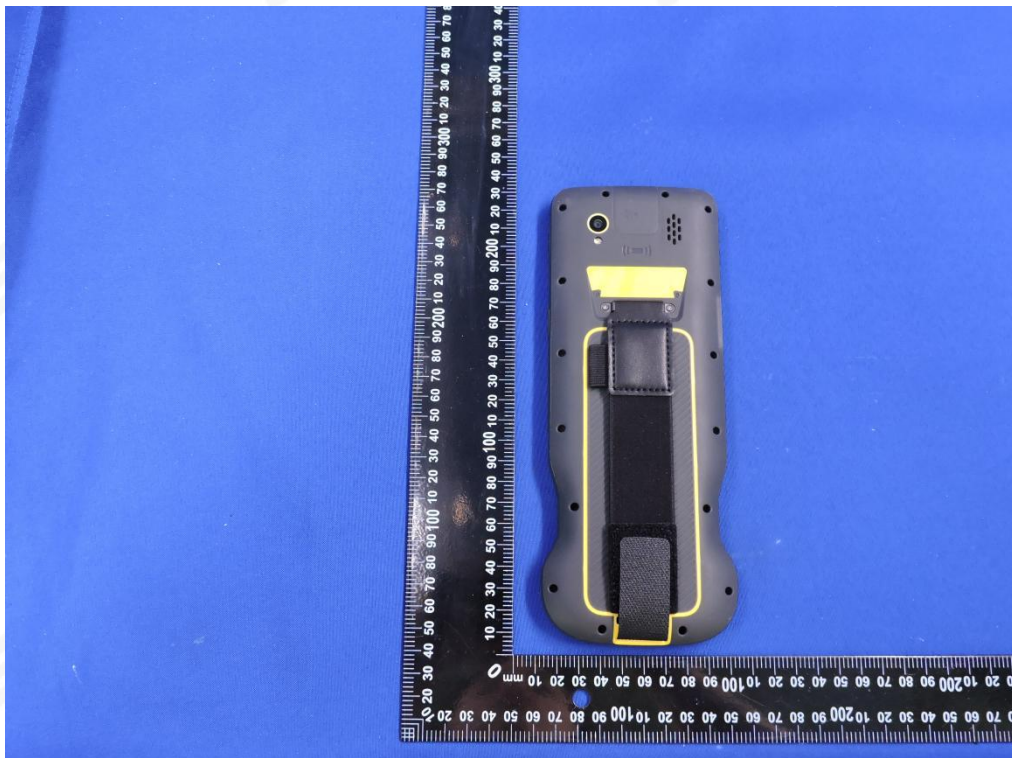
11. EUT and Test Setup Photo

11.1 EUT Photo

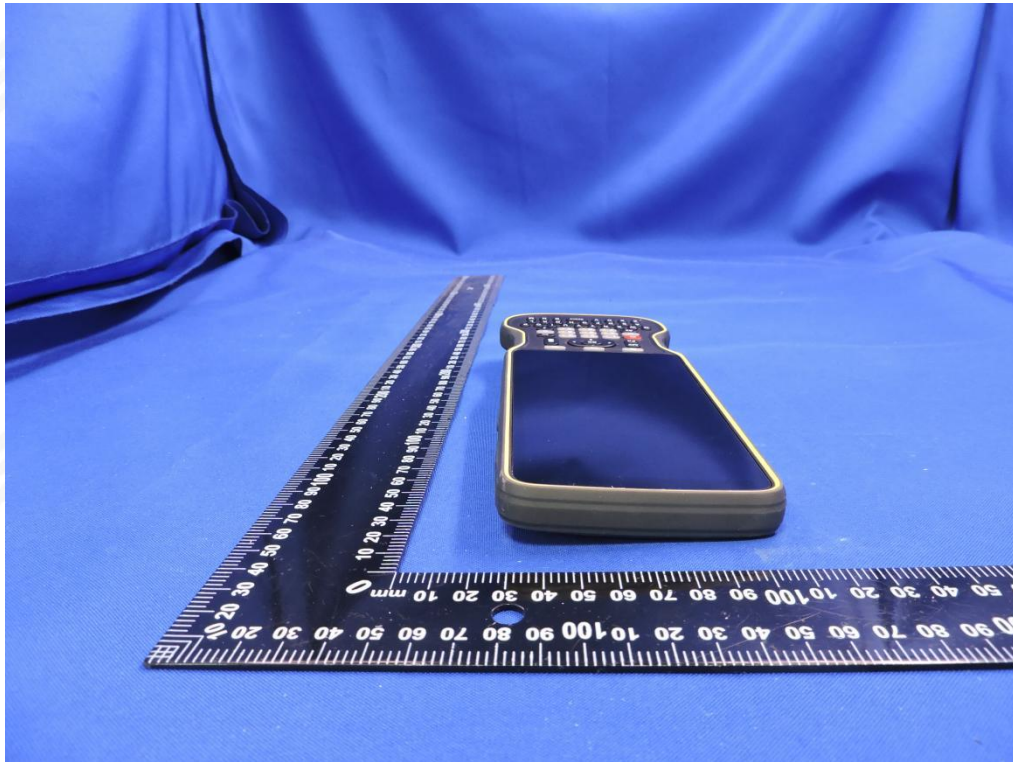
Front side



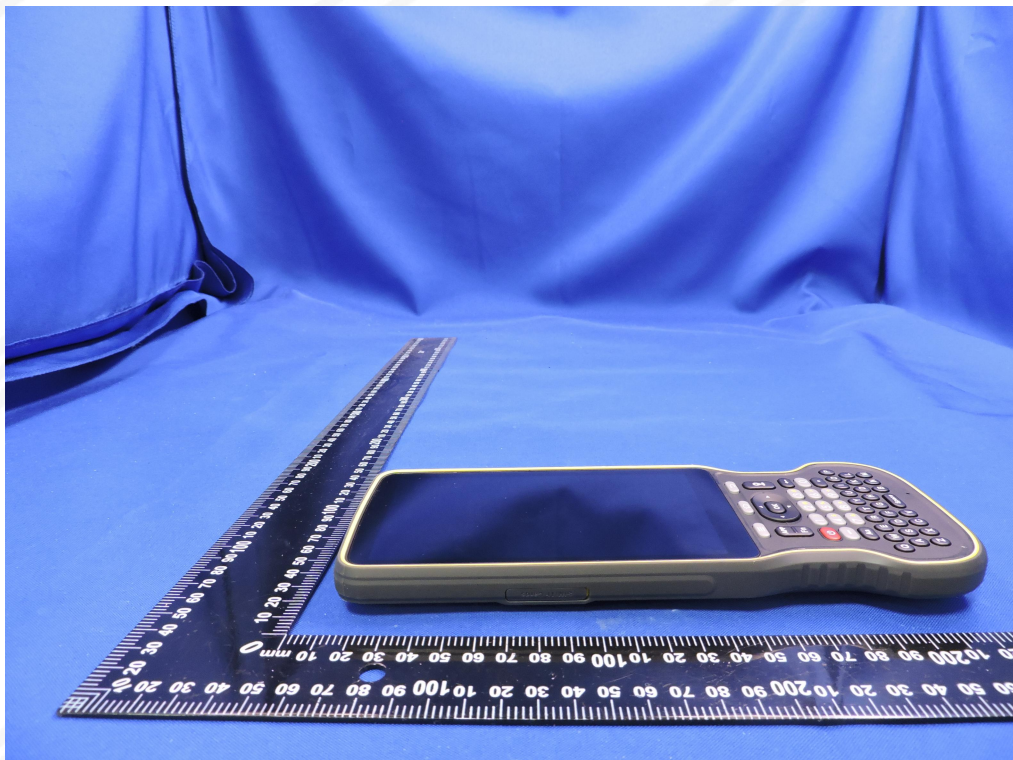
Back side



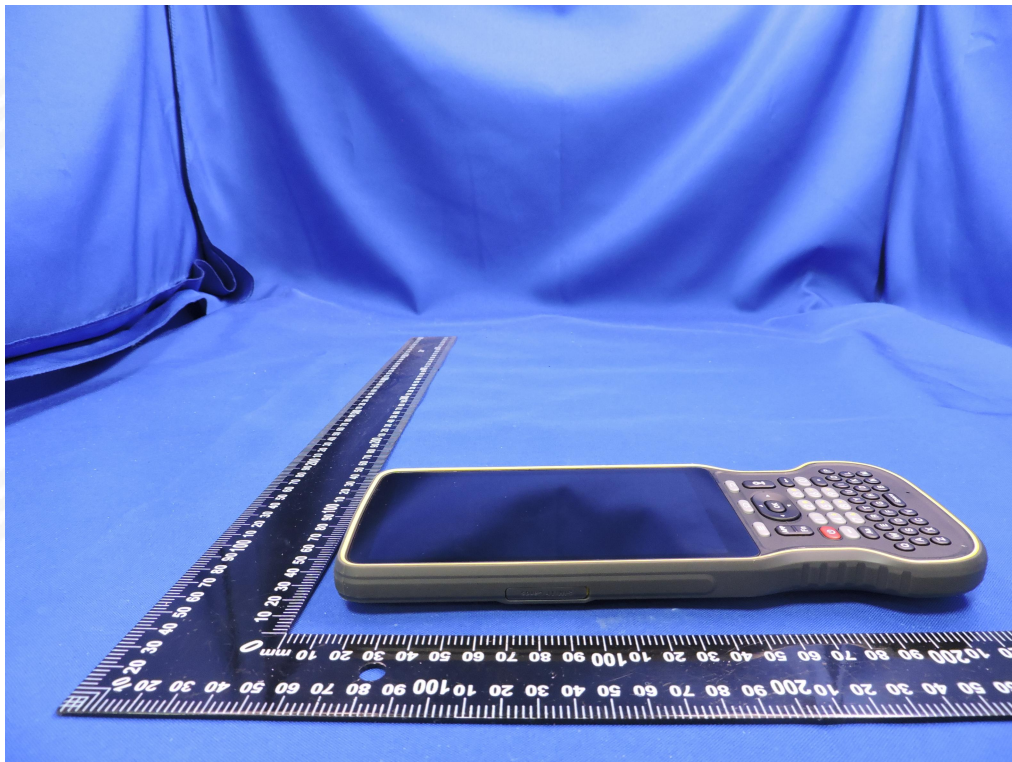
Top side



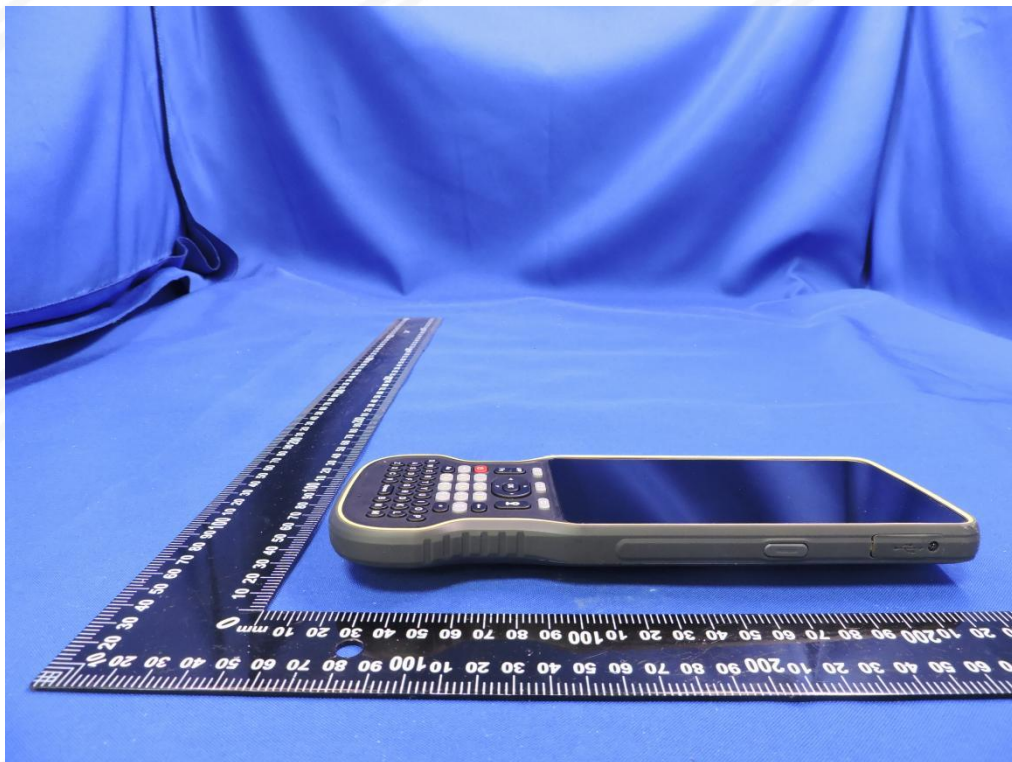
Bottom side



Left side



Right side



11.2 Setup Photo

Body Front side(separation distance is 0mm)



Body Back side(separation distance is 0mm)



Body Left side(separation distance is 0mm)



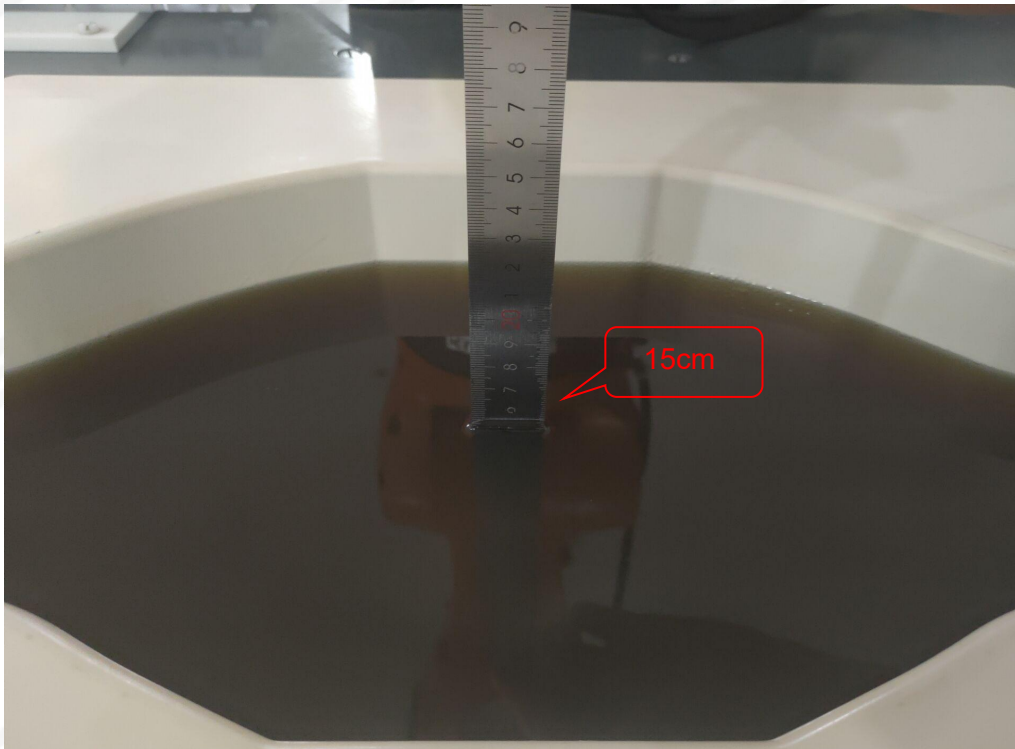
Body Top side(separation distance is 0mm)



Body Bottom side(separation distance is 0mm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
LTE Band 5	10M	QPSK	1	24	Front side	829	0.446	-0.21	24	23.8	1.047	0.467	/
			1	24	Front side	836.5	0.421	-0.87	24	23.81	1.045	0.440	/
			1	24	Front side	844	0.402	-2.46	24	23.91	1.021	0.410	1
			25	0	Front side	844	0.381	-3.12	23	22.95	1.012	0.385	/
			1	24	Back Side	844	0.396	-1.68	24	23.91	1.021	0.404	/
			25	0	Back Side	844	0.353	1.60	23	22.95	1.012	0.357	/
			1	24	Left Side	844	0.388	1.53	24	23.91	1.021	0.396	/
			25	0	Left Side	844	0.351	-1.66	23	22.95	1.012	0.355	/
			1	24	Bottom Side	844	0.375	-1.38	24	23.91	1.021	0.383	/
			25	0	Bottom Side	844	0.341	-0.55	23	22.95	1.012	0.345	/
LTE Band 7	10M	QPSK	1	49	Front side	2535	0.258	-1.69	23.5	23.44	1.014	0.262	2
			50	24	Front side	2535	0.239	3.69	22.5	22.26	1.057	0.253	/
			1	49	Back Side	2535	0.181	-1.81	23.5	23.44	1.014	0.184	/
			50	24	Back Side	2535	0.163	-0.15	22.5	22.26	1.057	0.172	/
			1	49	Left Side	2535	0.136	-1.98	23.5	23.44	1.014	0.138	/
			50	24	Left Side	2535	0.127	-3.35	22.5	22.26	1.057	0.134	/
			1	49	Bottom Side	2535	0.110	1.43	23.5	23.44	1.014	0.112	/
			50	24	Bottom Side	2535	0.085	-3.91	22.5	22.26	1.057	0.090	/
LTE Band 12&17	10M	QPSK	1	24	Front side	704	0.090	-2.87	24	23.8	1.047	0.094	3
			25	0	Front side	704	0.073	0.14	23	22.72	1.067	0.078	/
			1	24	Back Side	704	0.055	-1.91	24	23.8	1.047	0.058	/
			25	0	Back Side	704	0.051	2.18	23	22.72	1.067	0.054	/
			1	24	Left Side	704	0.028	0.02	24	23.8	1.047	0.029	/
			25	0	Left Side	704	0.020	1.81	23	22.72	1.067	0.021	/
			1	24	Bottom Side	704	0.023	1.76	24	23.8	1.047	0.024	/
			25	0	Bottom Side	704	0.015	1.86	23	22.72	1.067	0.016	/
LTE Band 13	10M	QPSK	1	24	Front side	782	0.239	0.28	23.5	23.38	1.028	0.246	4
			25	12	Front side	782	0.219	-1.94	22.5	22.27	1.054	0.231	/
			1	24	Back Side	782	0.179	-0.73	23.5	23.38	1.028	0.184	/
			25	12	Back	782	0.157	3.24	22.5	22.27	1.054	0.166	/



					Side								
			1	24	Left Side	782	0.166	1.36	23.5	23.38	1.028	0.171	/
			25	12	Left Side	782	0.135	-0.91	22.5	22.27	1.054	0.142	/
			1	24	Bottom Side	782	0.153	1.58	23.5	23.38	1.028	0.157	/
			25	12	Bottom Side	782	0.102	-0.81	22.5	22.27	1.054	0.108	/
LTE Band 25&2	20M	QPSK	1	49	Front side	1882.5	0.131	3.52	23	22.71	1.069	0.140	5
			50	0	Front side	1905	0.112	2.95	22	21.8	1.047	0.117	/
			1	49	Back Side	1882.5	0.093	0.56	23	22.71	1.069	0.099	/
			50	0	Back Side	1905	0.077	0.42	22	21.8	1.047	0.081	/
			1	49	Left Side	1882.5	0.085	0.91	23	22.71	1.069	0.091	/
			50	0	Left Side	1905	0.063	3.38	22	21.8	1.047	0.066	/
			1	49	Bottom Side	1882.5	0.080	-2.41	23	22.71	1.069	0.086	/
			50	0	Bottom Side	1905	0.051	-3.30	22	21.8	1.047	0.053	/
LTE Band 26	15M	QPSK	1	37	Front side	821.5	0.726	1.86	23.5	23.47	1.007	0.731	6
			36	18	Front side	841.5	0.674	-3.19	22.5	22.24	1.062	0.716	/
			1	37	Back Side	821.5	0.556	2.40	23.5	23.47	1.007	0.560	/
			36	18	Back Side	841.5	0.528	-2.26	22.5	22.24	1.062	0.561	/
			1	37	Left Side	821.5	0.494	2.07	23.5	23.47	1.007	0.497	/
			36	18	Left Side	841.5	0.438	3.37	22.5	22.24	1.062	0.465	/
			1	37	Bottom Side	821.5	0.502	1.06	23.5	23.47	1.007	0.505	/
			36	18	Bottom Side	841.5	0.451	3.06	22.5	22.24	1.062	0.479	/
LTE Band 38	20M	QPSK	1	49	Front side	2610	0.072	-1.55	23.5	23.36	1.033	0.075	7
			50	24	Front side	2610	0.063	0.12	22.5	22.21	1.069	0.067	/
			1	49	Back Side	2610	0.059	3.11	23.5	23.36	1.033	0.061	/
			50	24	Back Side	2610	0.039	-0.39	22.5	22.21	1.069	0.042	/
			1	49	Left Side	2610	0.033	2.73	23.5	23.36	1.033	0.034	/
			50	24	Left Side	2610	0.028	1.77	22.5	22.21	1.069	0.030	/
			1	49	Bottom Side	2610	0.025	-0.51	23.5	23.36	1.033	0.026	/
			50	24	Bottom Side	2610	0.020	-3.41	22.5	22.21	1.069	0.021	/
LTE Band 40	10M	QPSK	1	24	Front side	2395	0.063	-1.98	15.5	15.16	1.081	0.068	8
			25	24	Front side	2395	0.055	-0.10	14.5	14.01	1.119	0.062	/
			1	24	Back Side	2395	0.052	1.19	15.5	15.16	1.081	0.056	/
			25	24	Back Side	2395	0.048	1.02	14.5	14.01	1.119	0.054	/
			1	24	Left Side	2395	0.050	2.60	15.5	15.16	1.081	0.054	/
			25	24	Left	2395	0.033	0.32	14.5	14.01	1.119	0.037	/



					Side								
			1	24	Bottom Side	2395	0.046	-1.27	15.5	15.16	1.081	0.050	/
			25	24	Bottom Side	2395	0.029	-3.98	14.5	14.01	1.119	0.032	/
LTE Band 41	20M	QPSK	1	49	Front side	2680	0.066	-1.79	23.5	23.05	1.109	0.073	9
			50	24	Front side	2680	0.051	1.15	22	21.96	1.009	0.051	/
			1	49	Back Side	2680	0.058	-0.62	23.5	23.05	1.109	0.064	/
			50	24	Back Side	2680	0.043	-3.63	22	21.96	1.009	0.043	/
			1	49	Left Side	2680	0.051	2.72	23.5	23.05	1.109	0.057	/
			50	24	Left Side	2680	0.039	-3.26	22	21.96	1.009	0.039	/
			1	49	Bottom Side	2680	0.049	2.60	23.5	23.05	1.109	0.054	/
			50	24	Bottom Side	2680	0.030	2.29	22	21.96	1.009	0.030	/
LTE Band 66&4	20M	QPSK	1	49	Front side	1720	0.792	0.71	23.5	23.14	1.086	0.860	/
			1	49	Front side	1745	0.812	0.71	23.5	23.17	1.079	0.876	10
			1	49	Front side	1770	0.763	0.71	23	22.95	1.012	0.772	/
			50	0	Front side	1720	0.733	-1.36	22.5	22.16	1.081	0.793	/
			1	49	Back Side	1745	0.702	0.87	23.5	23.17	1.079	0.757	/
			50	0	Back Side	1720	0.693	1.92	22.5	22.16	1.081	0.749	/
			1	49	Left Side	1745	0.686	2.77	23.5	23.17	1.079	0.740	/
			50	0	Left Side	1720	0.627	0.59	22.5	22.16	1.081	0.678	/
			1	49	Bottom Side	1745	0.659	-1.00	23.5	23.17	1.079	0.711	/
			50	0	Bottom Side	1720	0.601	3.17	22.5	22.16	1.081	0.650	/
2.4GHz WLAN	N/A	802.11b	N/A	N/A	Front Side	2462	0.348	2.87	17.50	17.24	1.062	0.369	11
					Back Side	2462	0.302	0.02	17.50	17.24	1.062	0.321	/
					Left Side	2462	0.235	0.21	17.50	17.24	1.062	0.249	/
					Top Side	2462	0.217	0.64	17.50	17.24	1.062	0.230	/
5.2GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5240	0.133	-3.38	14.00	13.61	1.094	0.145	12
					Back Side	5240	0.102	0.66	14.00	13.61	1.094	0.112	/
					Left Side	5240	0.099	0.62	14.00	13.61	1.094	0.108	/
					Top Side	5240	0.075	-0.16	14.00	13.61	1.094	0.082	/
5.3GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5300	0.153	1.23	14.00	13.65	1.084	0.166	13
					Back Side	5300	0.125	1.92	14.00	13.65	1.084	0.135	/
					Left Side	5300	0.110	3.37	14.00	13.65	1.084	0.119	/
					Top Side	5300	0.115	-0.39	14.00	13.65	1.084	0.125	/
5.6GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5500	0.165	1.01	12.50	12.37	1.030	0.170	14
					Back	5500	0.123	-1.15	12.50	12.37	1.030	0.127	/



					Side								
					Left Side	5500	0.093	0.12	12.50	12.37	1.030	0.096	/
					Top Side	5500	0.088	2.13	12.50	12.37	1.030	0.091	/
5.8GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5825	0.143	1.08	12.00	11.69	1.074	0.154	15
					Back Side	5825	0.099	1.52	12.00	11.69	1.074	0.106	/
					Left Side	5825	0.087	-3.92	12.00	11.69	1.074	0.093	/
					Top Side	5825	0.073	2.17	12.00	11.69	1.074	0.078	/

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- Per KDB 248227- 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. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.095** W/Kg for Body)
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

12.3 Repeated SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR(W/Kg)	Meas. No.
LTE Band 66&4	20M	QPSK	1	49	Front side	1720	0.776	2.40	23.5	23.14	0.843	-
			1	49	Front side	1745	0.803	-3.59	23.5	23.17	0.866	-

12.4 Repeated SAR measurement

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg) 1g (W/Kg)	1 st Repeated SAR 1g	Ratio	Original Measured	2nd Repeated SAR 1g	Ratio
LTE Band 66&4	20M	QPSK	1	49	Front side	1720	0.792	0.776	1.021	-	-	-
			1	49	Front side	1745	0.812	0.803	1.011	-	-	-

Note:

- Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/Kg.
- Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/Kg, only one repeated measurement is required.
- Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/Kg.
- The ratio is the difference in percentage between original and repeated measured SAR.



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. LTE + 2.4GHz WLAN/5G WLAN
	2. LTE + Bluetooth
	3. LTE+NFC

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances ≤ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1&10g) [W/kg]
		dBm	mW			
BT	Body	2.98	1.986	5	2.48	0.083

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1&10g) [W/kg]
		dBm	mW			
NFC	Body	-34.63	0.000	5	0.01356	0.000



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
LTE + 2.4G WLAN	Body	LTE	0.876	1.245
		2.4G WLAN	0.369	
LTE + Bluetooth	Body	LTE	0.876	0.959
		Bluetooth	0.083	
LTE + NFC	Body	LTE	0.876	0.876
		NFC	0.000	
LTE + 5G WLAN	Body	LTE	0.876	1.046
		5G WLAN	0.170	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023.07.04	2026.07.03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
Data Acquisition Electronics DAE _x	SPEAG	DAE3	428	2025.09.08	2026.09.07
E-field Probe	SPEAG	EX3DV4	3806	2025-09-11	2025-09-10
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2025-02-22	2026-02-21
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16



Appendix A. System Validation Plots

Test Laboratory: STS Lab

Time: 2026-01-09

System Check 750MHz

DUT: Dipole 750 MHz

Communication System: UID 0, CW (0); Communication System Band: D750 (750.0 MHz); Frequency: 750 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 42.05$; $\rho = 1000 \text{ kg/m}^3$

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.35, 8.89, 9.14) @ 750 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.01 W/kg

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

Reference Value = 37.56 V/m; Power Drift = 1.26 dB

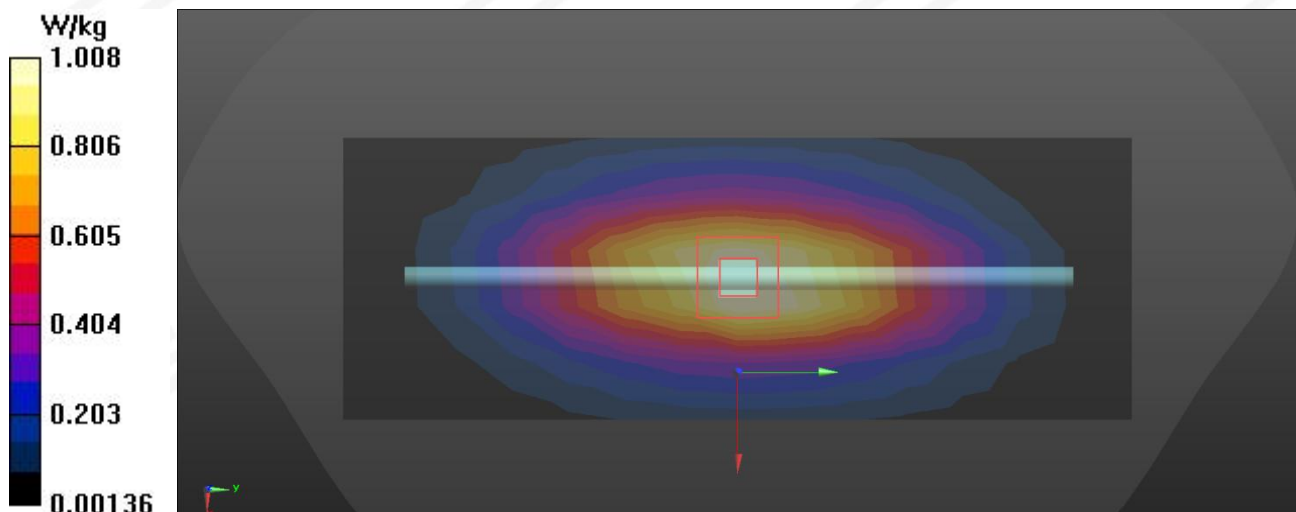
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.599 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.7%

Maximum value of SAR (measured) = 1.06 W/kg



**System Check 835MHz****DUT: Dipole 835 MHz**

Communication System: UID 0, CW (0); Communication System Band: D835 (835.0 MHz); Frequency: 835 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 835$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 41.50$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 835 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (7x15x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 1.17 W/kg

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

Reference Value = 41.55 V/m; Power Drift = 1.73 dB

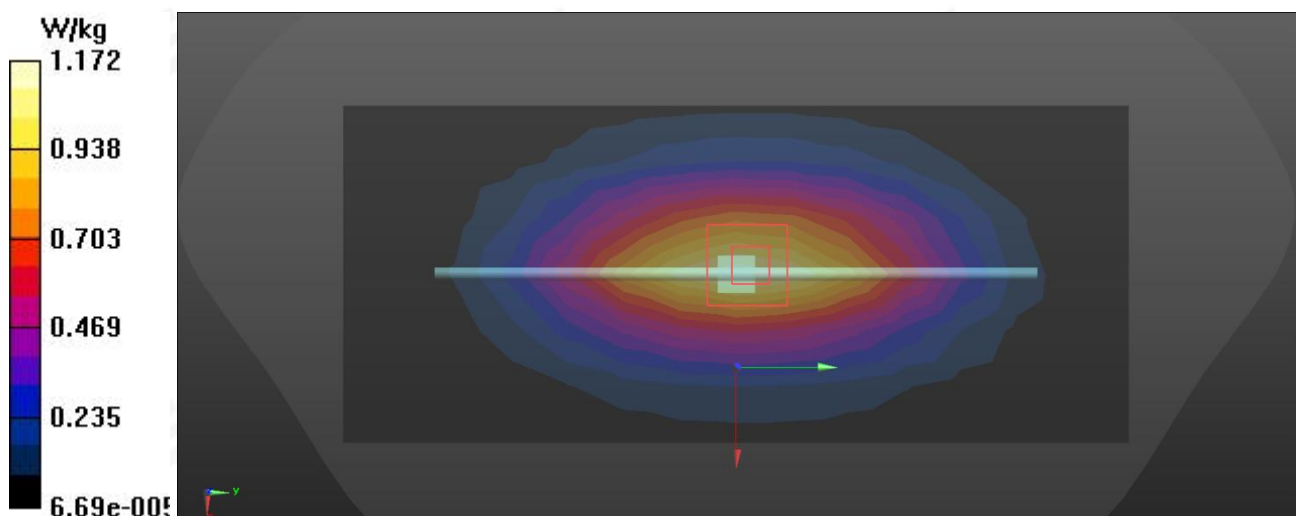
Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 1.022 W/kg; SAR(10 g) = 0.574 W/kg

Smallest distance from peaks to all points 3 dB below = 17.6 mm

Ratio of SAR at M2 to SAR at M1 = 68.3%

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



**System Check 1800MHz****DUT: Dipole 1800 MHz**

Communication System: UID 0, CW (0); Communication System Band: D1800 (1800.0 MHz); Frequency: 1800 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 1800$ MHz; $\sigma = 1.41$ S/m; $\epsilon_r = 40.27$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(7.06, 7.52, 7.74) @ 1800 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (7x13x1): Measurement grid: $dx=8$ mm, $dy=8$ mm

Maximum value of SAR (measured) = 4.96 W/kg

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

Reference Value = 67.12 V/m; Power Drift = -1.17 dB

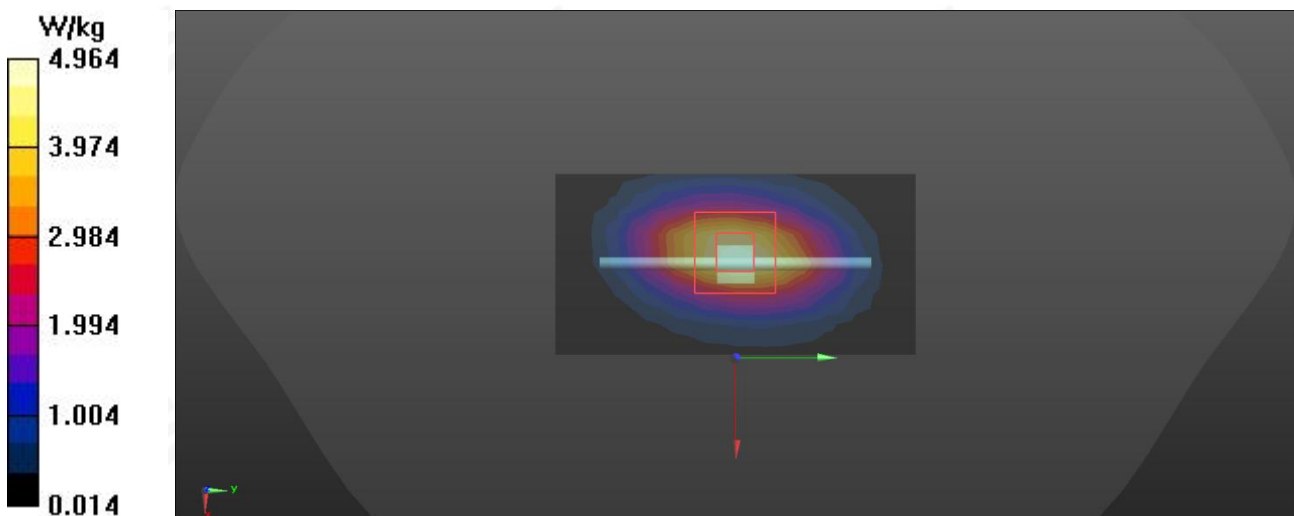
Peak SAR (extrapolated) = 6.26 W/kg

SAR(1 g) = 3.741 W/kg; SAR(10 g) = 2.038 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 5.25 W/kg



**System Check 1900MHz****DUT: Dipole 1900 MHz**

Communication System: UID 0, CW (0); Communication System Band: D1900 (1900.0 MHz); Frequency: 1900 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ S/m; $\epsilon_r = 39.89$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1900 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (5x9x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 5.99 W/kg

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

Reference Value = 67.66 V/m; Power Drift = 0.66 dB

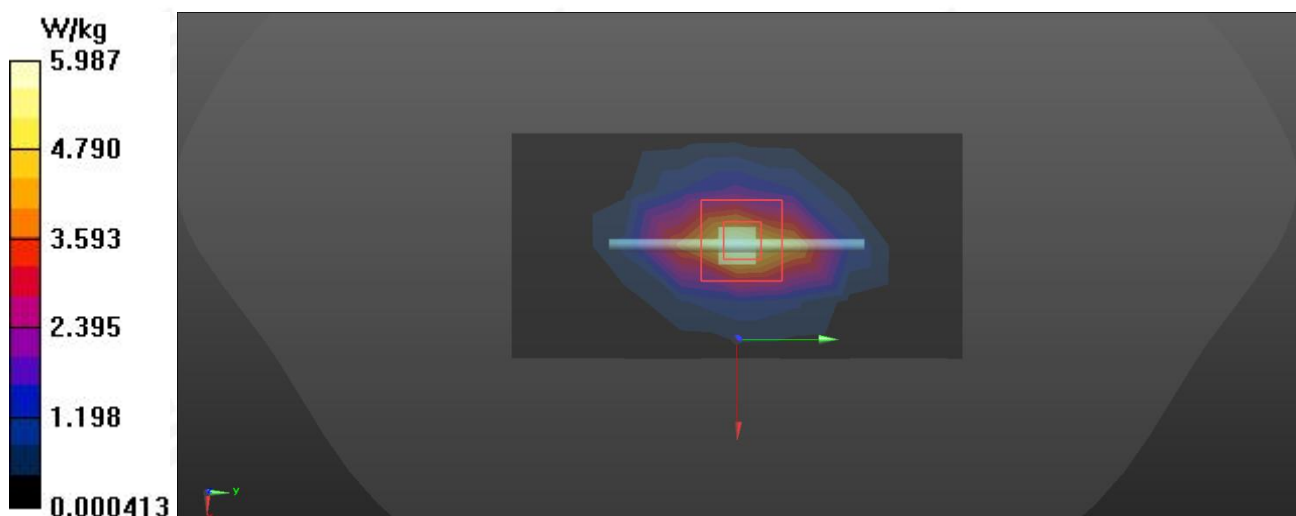
Peak SAR (extrapolated) = 7.22 W/kg

SAR(1 g) = 3.987 W/kg; SAR(10 g) = 2.003 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 5.94 W/kg



**System Check 2300MHz****DUT: Dipole 2300 MHz**

Communication System: UID 0, CW (0); Communication System Band: D2300 (2300.0 MHz); Frequency: 2300 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.65$ S/m; $\epsilon_r = 39.43$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.46, 6.87, 7.07) @ 2300 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x11x1): Measurement grid: $dx=8$ mm, $dy=8$ mm

Maximum value of SAR (measured) = 7.17 W/kg

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

Reference Value = 75.14 V/m; Power Drift = -3.02 dB

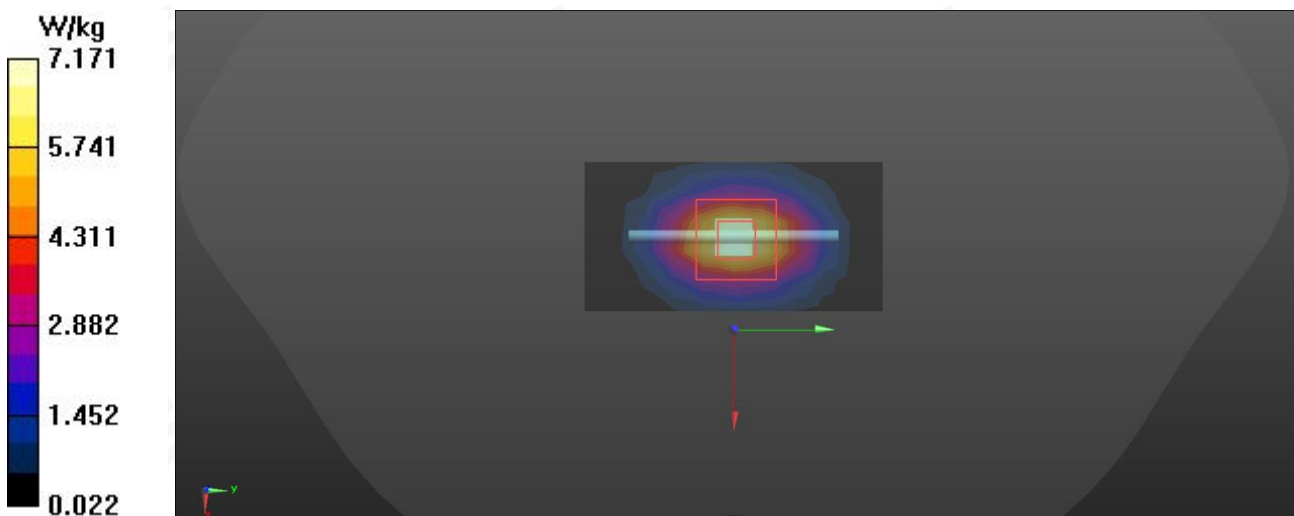
Peak SAR (extrapolated) = 9.30 W/kg

SAR(1 g) = 4.943 W/kg; SAR(10 g) = 2.328 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 7.53 W/kg



**System Check 2450MHz****DUT: Dipole 2450 MHz**

Communication System: UID 0, CW (0); Communication System Band: D2450 (2450.0 MHz); Frequency: 2450 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 38.78$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.3, 6.71, 6.9) @ 2450 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (6x11x1): Measurement grid: $dx=8$ mm, $dy=8$ mm

Maximum value of SAR (measured) = 9.06 W/kg

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

Reference Value = 74.47 V/m; Power Drift = -2.80 dB

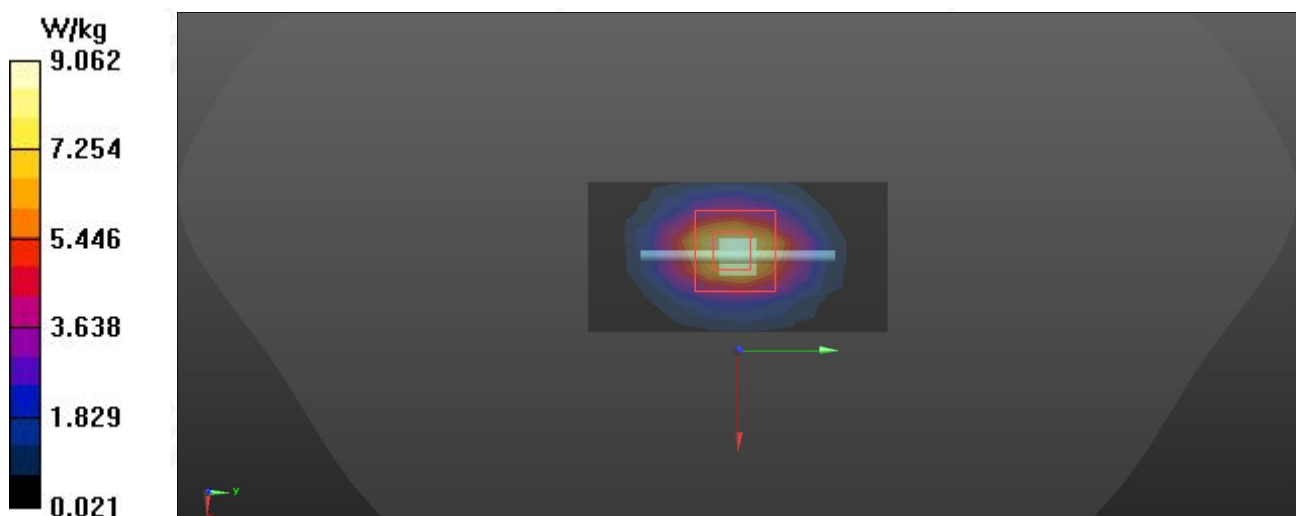
Peak SAR (extrapolated) = 11.7 W/kg

SAR(1 g) = 5.527 W/kg; SAR(10 g) = 2.417 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 9.28 W/kg



**System Check 2600MHz****DUT: HAC Dipole 2600 MHz**

Communication System: UID 0, CW (0); Communication System Band: D2600 (2600.0 MHz); Frequency: 2600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.14, 6.54, 6.73) @ 2600 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x13x1): Measurement grid: $dx=8$ mm, $dy=8$ mm

Maximum value of SAR (measured) = 8.14 W/kg

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

Reference Value = 72.11 V/m; Power Drift = 3.54 dB

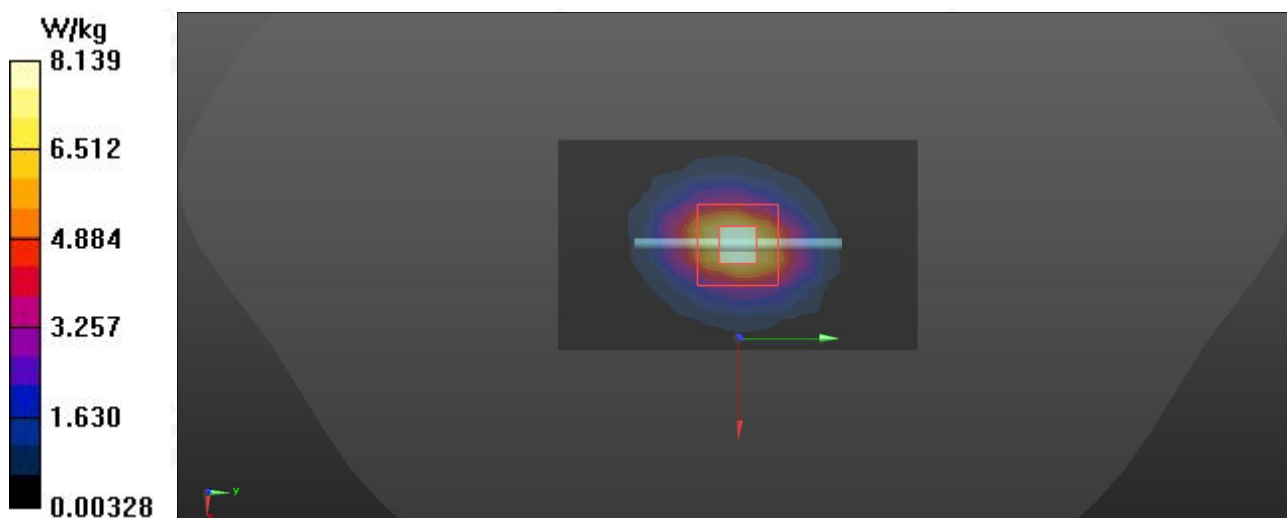
Peak SAR (extrapolated) = 11.3 W/kg

SAR(1 g) = 5.558 W/kg; SAR(10 g) = 2.436 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 8.84 W/kg



**System Check 5200MHz****DUT: Dipole 5GHz**

Communication System: UID 0, CW (0); Communication System Band: ITD5500 (5000.0 - 5900.0 MHz);

Frequency: 5200 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.65$ S/m; $\epsilon_r = 36.24$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.96, 5.28, 5.44) @ 5200 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (13x28x1): Measurement grid: $dx=8$ mm, $dy=8$ mm

Maximum value of SAR (measured) = 3.57 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 20.16 V/m; Power Drift = -0.09 dB

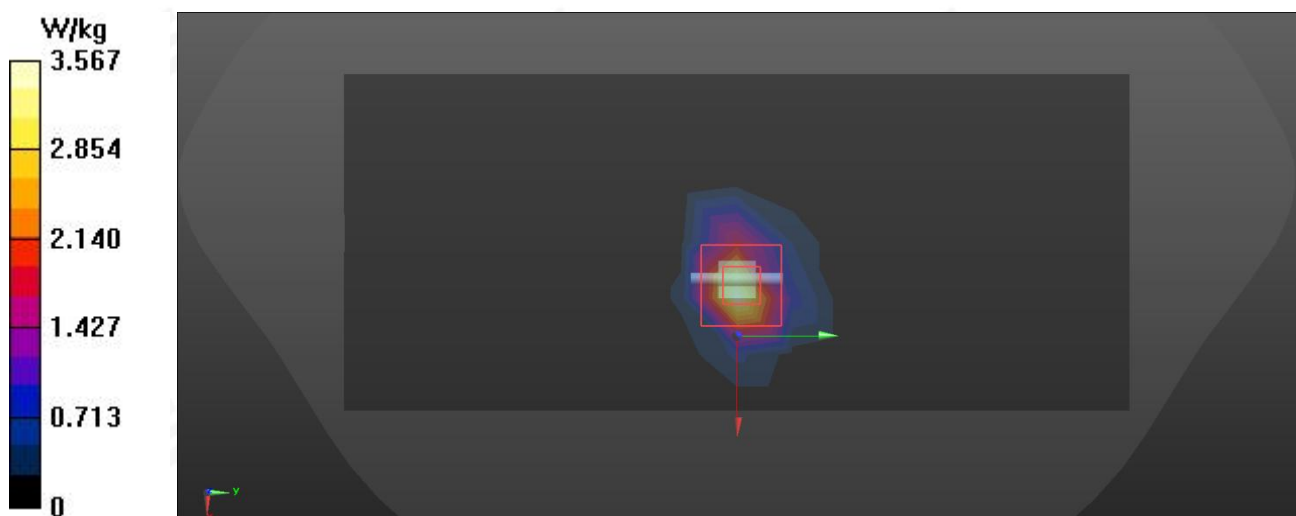
Peak SAR (extrapolated) = 7.67 W/kg

SAR(1 g) = 1.565 W/kg; SAR(10 g) = 0.535 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 25.2%

Maximum value of SAR (measured) = 3.67 W/kg



**System Check 5600MHZ****DUT: Dipole 5GHz**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5600 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.07$ S/m; $\epsilon_r = 35.44$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.57, 4.87, 5.01) @ 5600 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (8x8x1): Measurement grid: $dx=8$ mm, $dy=8$ mm

Maximum value of SAR (measured) = 3.51 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 26.10 V/m; Power Drift = -0.09 dB

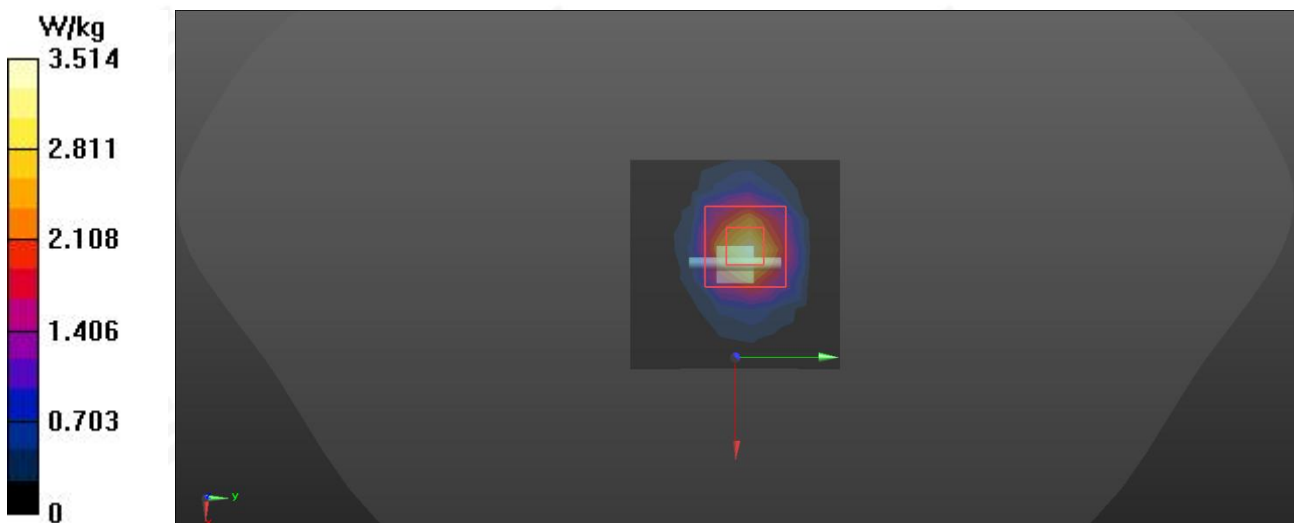
Peak SAR (extrapolated) = 7.67 W/kg

SAR(1 g) = 1.76 W/kg; SAR(10 g) = 0.535 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 21.9%

Maximum value of SAR (measured) = 3.26 W/kg



**System Check 5800MHz****DUT: Dipole 5GHz**

Communication System: UID 0, CW (0); Communication System Band: D5GHz (5000.0 - 6000.0 MHz);

Frequency: 5800 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.27$ S/m; $\epsilon_r = 35.95$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.59, 4.89, 5.03) @ 5800 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 1.8mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x9x1): Measurement grid: $dx=8$ mm, $dy=8$ mm

Maximum value of SAR (measured) = 3.72 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 28.08 V/m; Power Drift = 2.97 dB

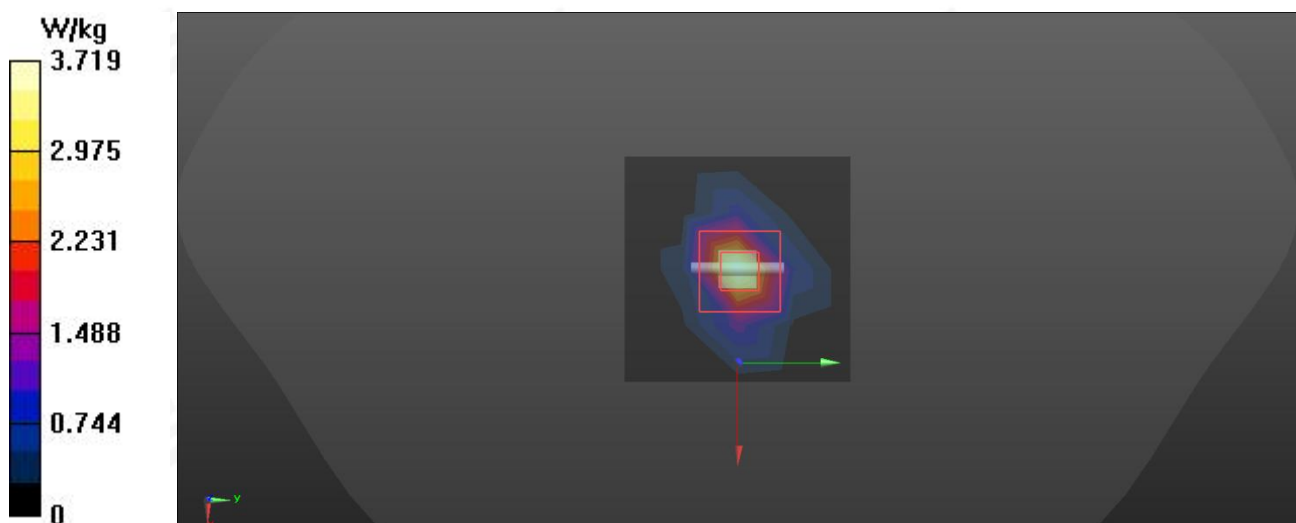
Peak SAR (extrapolated) = 8.76 W/kg

SAR(1 g) = 1.919 W/kg; SAR(10 g) = 0.605 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 19.5%

Maximum value of SAR (measured) = 3.62 W/kg





Appendix B. SAR Test Plots

Test Laboratory: STS Lab

Time: 2026-01-09

Plot 1: LTE B5_Front Side_0mm

DUT: Unnamed Device

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 844 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 844$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.05$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.2, 8.73, 8.98) @ 844 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.351 W/kg

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

Reference Value = 13.20 V/m; Power Drift = -0.21 dB

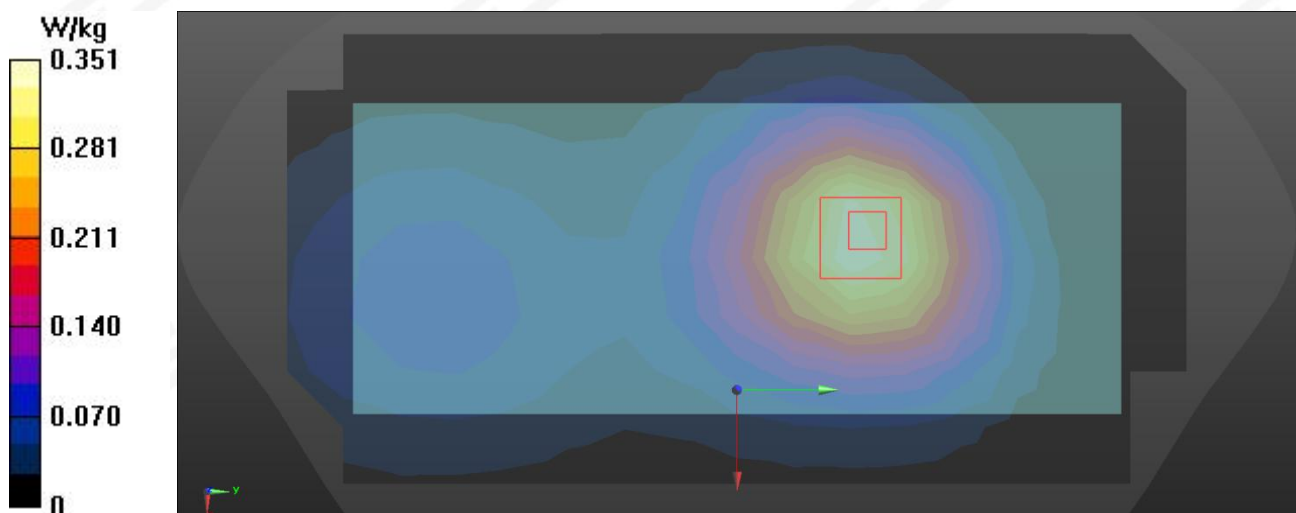
Peak SAR (extrapolated) = 0.621 W/kg

SAR(1 g) = 0.446 W/kg; SAR(10 g) = 0.304 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 70.9%

Maximum value of SAR (measured) = 0.478 W/kg





Plot 2: LTE B7_Front Side_0mm

DUT: Unnamed Device

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 7, E-UTRA/FDD (2500.0 - 2570.0 MHz); Frequency: 2535 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.89$ S/m; $\epsilon_r = 38.85$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.3, 6.71, 6.9) @ 2535 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.112 W/kg

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

Reference Value = 1.952 V/m; Power Drift = -1.69 dB

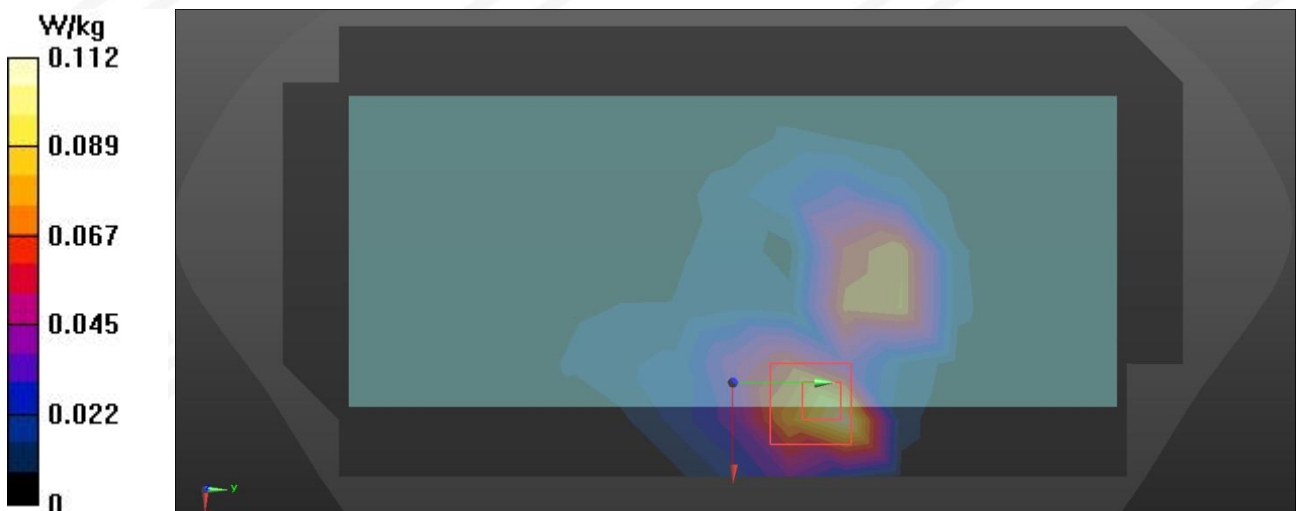
Peak SAR (extrapolated) = 0.760 W/kg

SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.099 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 41.3%

Maximum value of SAR (measured) = 0.278 W/kg



**Plot 3: LTE B12/&17_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 12, E-UTRA/FDD (698.0 - 716.0 MHz); Frequency: 704 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 704$ MHz; $\sigma = 0.90$ S/m; $\epsilon_r = 42.83$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(8.35, 8.89, 9.14) @ 704 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0588 W/kg

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

Reference Value = 3.872 V/m; Power Drift = 0.90 dB

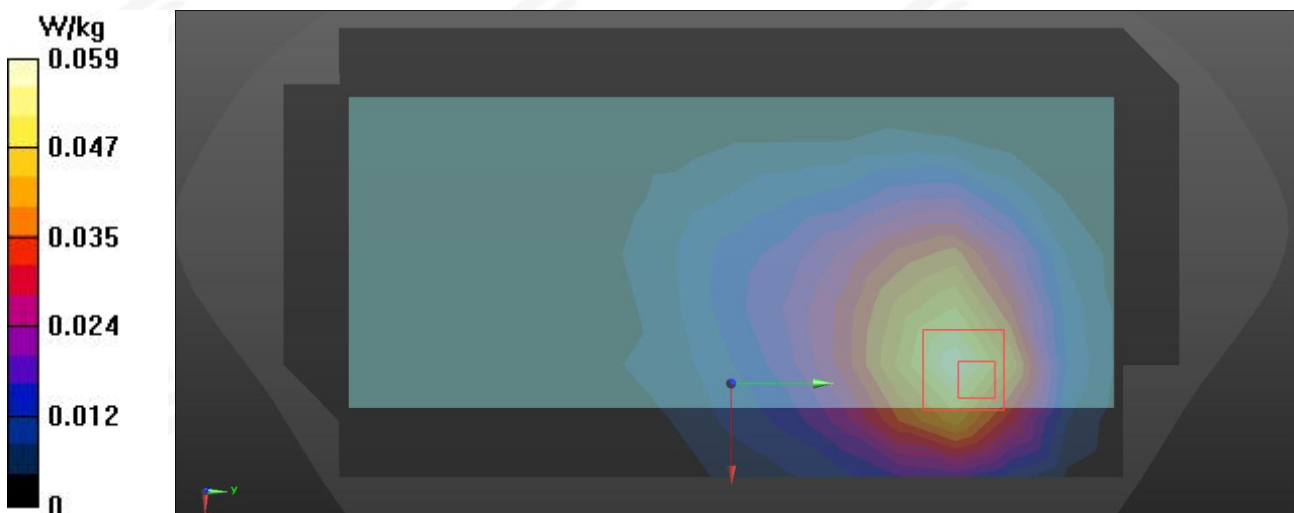
Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.050 W/kg

Smallest distance from peaks to all points 3 dB below = 19.3 mm

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 0.0997 W/kg



**Plot 4: LTE B13_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 13, E-UTRA/FDD (777.0 - 787.0 MHz); Frequency: 782 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 782$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 42.53$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 -SN3806; ConvF(8.35, 8.89, 9.14) @ 782 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.159 W/kg

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

Reference Value = 6.217 V/m; Power Drift = 0.28 dB

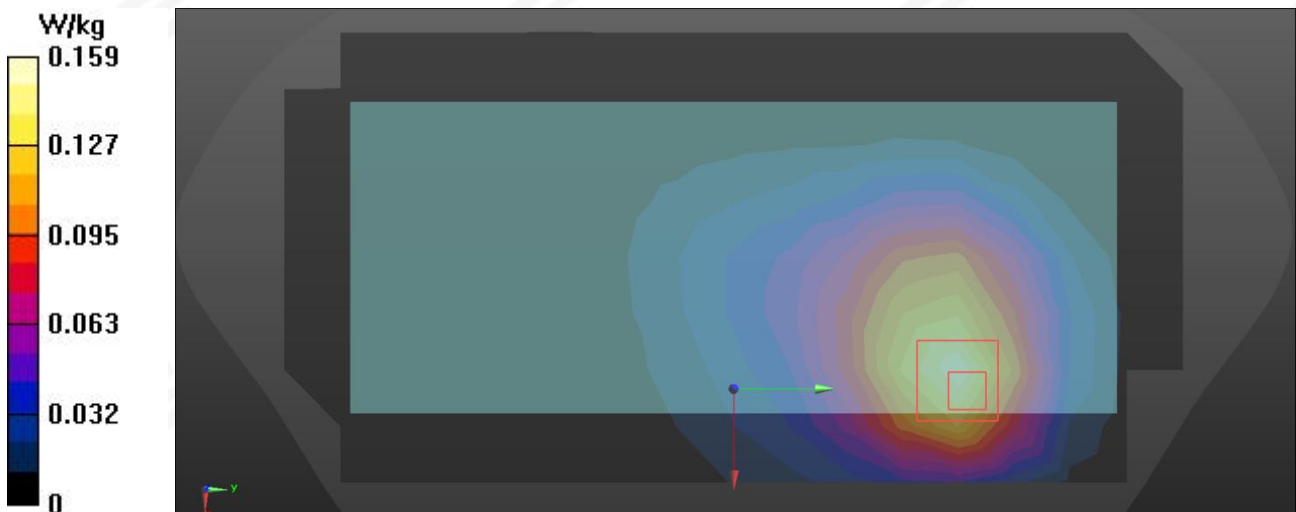
Peak SAR (extrapolated) = 0.469 W/kg

SAR(1 g) = 0.239 W/kg; SAR(10 g) = 0.136 W/kg

Smallest distance from peaks to all points 3 dB below = 13.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 0.261 W/kg



**Plot 5:LTE B25&2_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 25, E-UTRA/FDD (1850.0 - 1915.0 MHz); Frequency: 1882.5 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 1882.5$ MHz; $\sigma = 1.40$ S/m; $\epsilon_r = 40.97$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.85, 7.3, 7.51) @ 1882.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0753 W/kg

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

Reference Value = 1.557 V/m; Power Drift = 3.52 dB

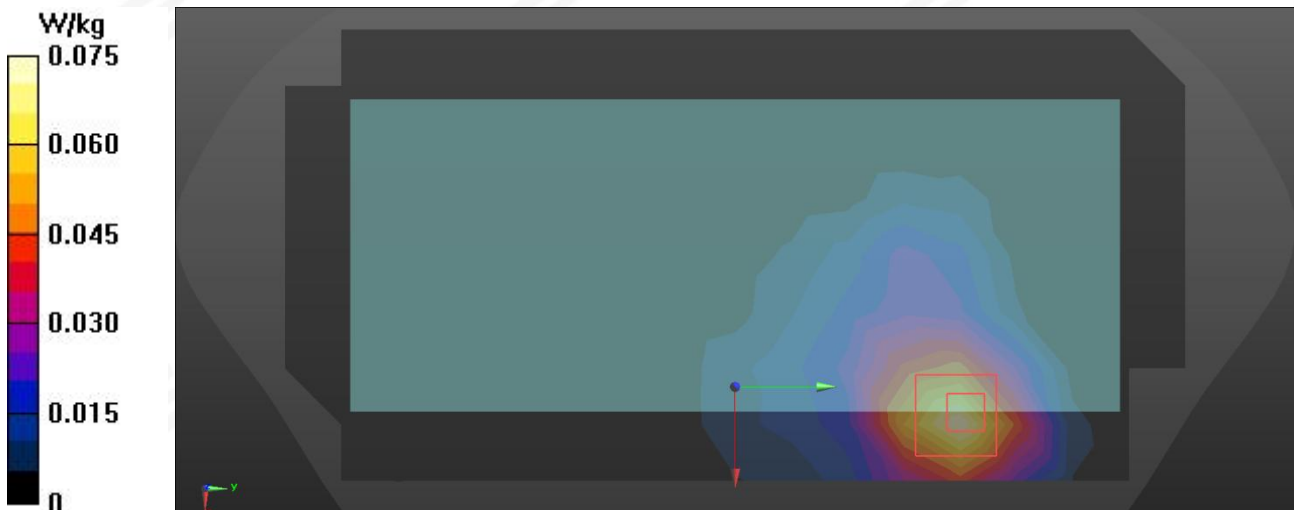
Peak SAR (extrapolated) = 0.299 W/kg

SAR(1 g) = 0.131 W/kg; SAR(10 g) = 0.065 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 44%

Maximum value of SAR (measured) = 0.145 W/kg



**Plot 6: LTE B26_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 26, E-UTRA/FDD (814.0 - 849.0 MHz); Frequency: 821.5 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 821.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 42.22$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4-SN3806; ConvF(8.2, 8.73, 8.98) @ 821.5 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.465 W/kg

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

Reference Value = 6.781 V/m; Power Drift = 1.86 dB

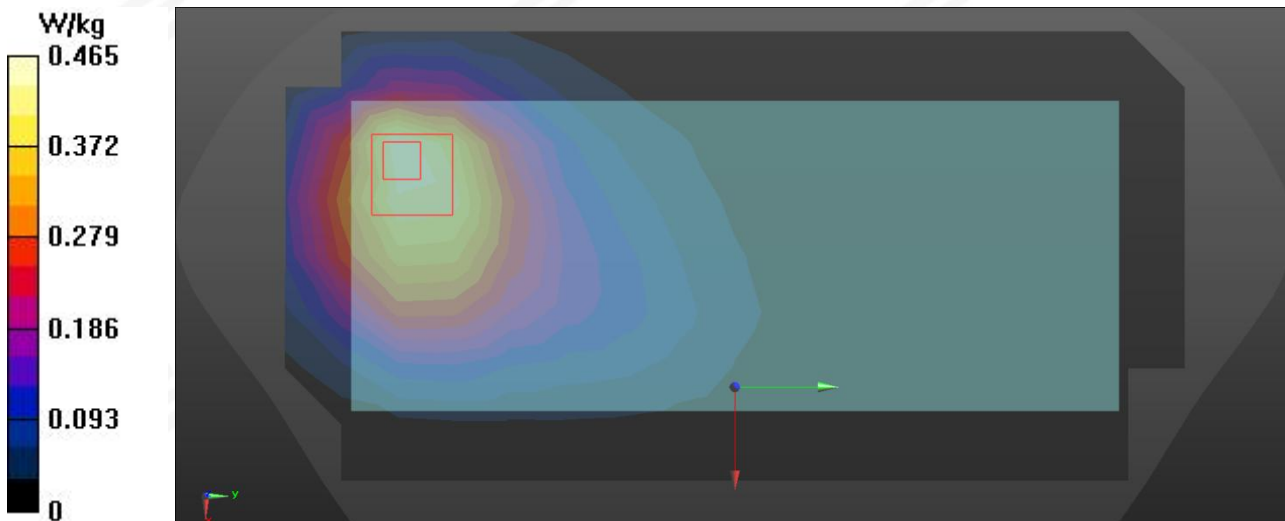
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.417 W/kg

Smallest distance from peaks to all points 3 dB below = 14.4 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 0.795 W/kg



**Plot 7: LTE B38_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 38, E-UTRA/TDD (2570.0 - 2620.0 MHz); Frequency: 2610 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 2610$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 39.53$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4-SN3806; ConvF(6.14, 6.54, 6.73) @ 2610 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0411 W/kg

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

Reference Value = 2.33 V/m; Power Drift = -1.55 dB

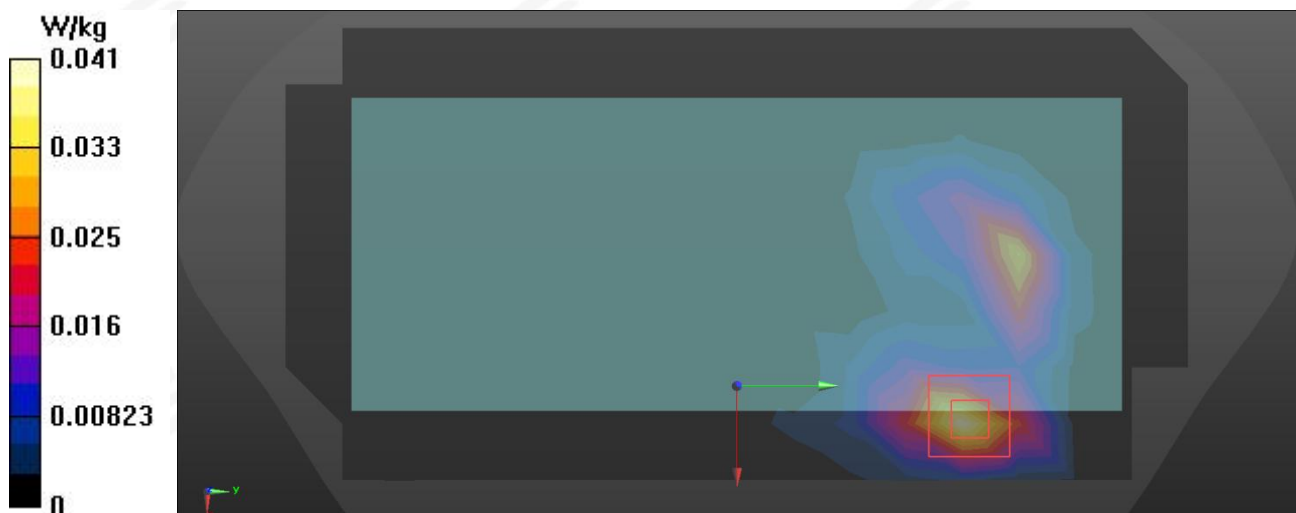
Peak SAR (extrapolated) = 0.207 W/kg

SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.028 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

Ratio of SAR at M2 to SAR at M1 = 37.7%

Maximum value of SAR (measured) = 0.0871 W/kg



**Plot 8: LTE B40_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 40, E-UTRA/TDD (2300.0 - 2400.0 MHz); Frequency: 2395 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used: $f = 2395$ MHz; $\sigma = 1.75$ S/m; $\epsilon_r = 39.85$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.46, 6.87, 7.07) @ 2395 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0361 W/kg

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

Reference Value = 0.4770 V/m; Power Drift = -1.98 dB

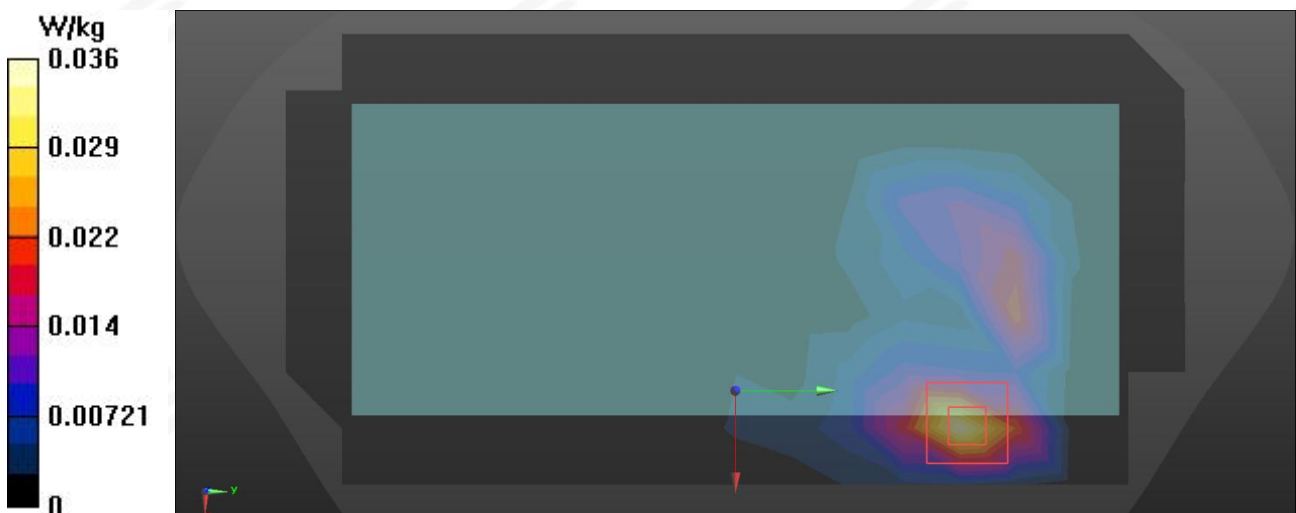
Peak SAR (extrapolated) = 0.181 W/kg

SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.025 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 38.7%

Maximum value of SAR (measured) = 0.0782 W/kg



**Plot 9: LTE B41_Front_0mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 41, E-UTRA/TDD (2496.0 - 2690.0 MHz); Frequency: 2680 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 2680$ MHz; $\sigma = 2.05$ S/m; $\epsilon_r = 39.25$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4-SN3806; ConvF(6.14, 6.54, 6.73) @ 2680 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.0337 W/kg

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

Reference Value = 0.557 V/m; Power Drift = -1.79 dB

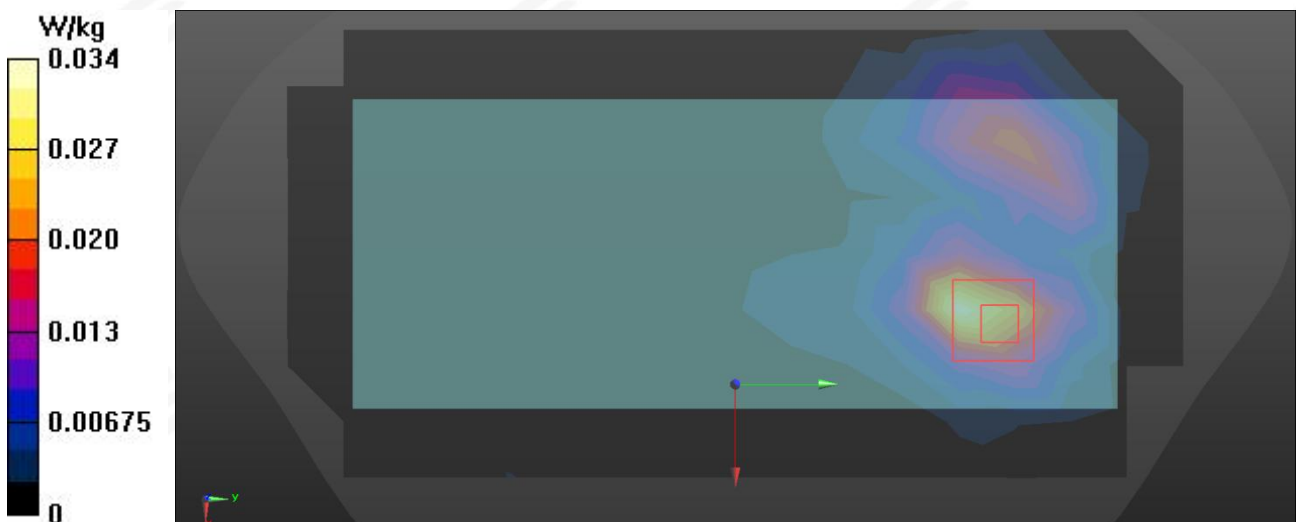
Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.026 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 38.1%

Maximum value of SAR (measured) = 0.0683 W/kg



**Plot 10: LTE B66&4_Front_0mm****DUT: Unnamed Device**

Communication System: UID 0, Generic LTE (0); Communication System Band: Band 66, E-UTRA/FDD (1920.0 - 1980.0 MHz); Frequency: 1745 MHz; Communication System PAR: 0 dB; PMF: 1

Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.37$ S/m; $\epsilon_r = 40.74$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4-SN3806; ConvF(7.06, 7.52, 7.74) @ 1745 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 8mm (Mechanical Surface Detection), Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

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

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

Reference Value = 5.106 V/m; Power Drift = 0.71 dB

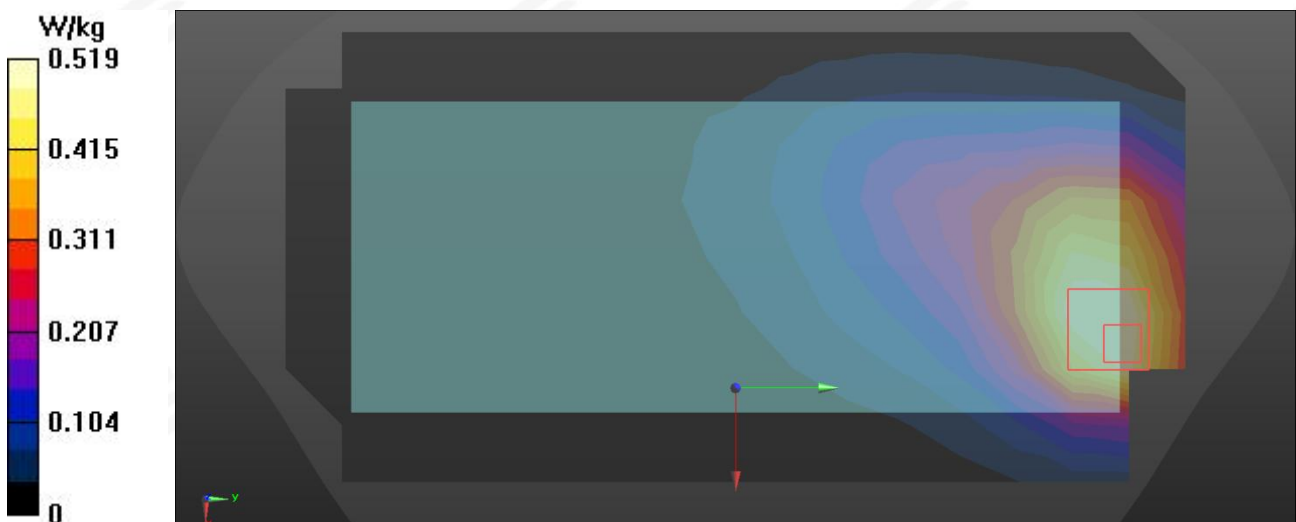
Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.478 W/kg

Smallest distance from peaks to all points 3 dB below = 14.3 mm

Ratio of SAR at M2 to SAR at M1 = 59.1%

Maximum value of SAR (measured) = 0.871 W/kg



**Plot 11: 2.4G_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, WLAN 2.4G (0); Communication System Band: 2.4G BW20; Frequency: 2462 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated): $f = 2462$ MHz; $\sigma = 1.81$ S/m; $\epsilon_r = 39.36$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(6.3, 6.71, 6.9) @ 2462 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.327 W/kg

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

Reference Value = 1.521 V/m; Power Drift = 2.87 dB

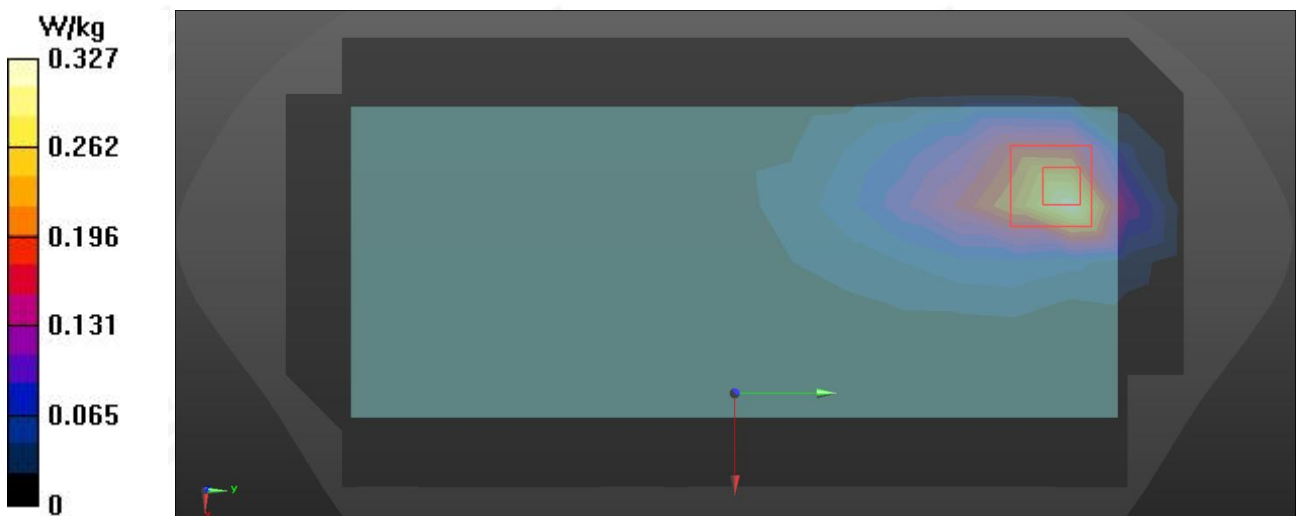
Peak SAR (extrapolated) = 0.773 W/kg

SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.156 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 49.9%

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



**Plot 12: 5.2G_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, WLAN 5G (0); Communication System Band: 5G 20M; Frequency: 5240MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated): $f = 5240$ MHz; $\sigma = 4.72$ S/m; $\epsilon_r = 36.85$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.59, 4.89, 5.03) @ 5240 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.109 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.53 V/m; Power Drift = -3.38 dB

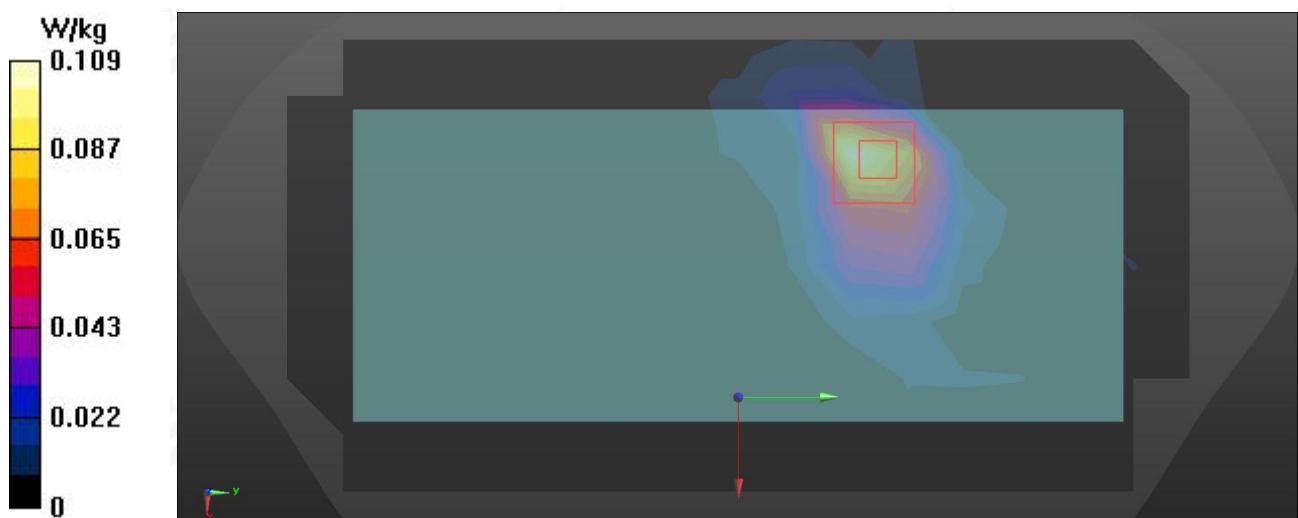
Peak SAR (extrapolated) = 0.402 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.044 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 16.7%

Maximum value of SAR (measured) = 0.169 W/kg



**Plot 13: 5.3G_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, WLAN 5G (0); Communication System Band: 5G 20M; Frequency: 5300 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated): $f = 5300$ MHz; $\sigma = 4.75$ S/m; $\epsilon_r = 35.95$; $\rho = 1000$ kg/m³

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.96, 5.28, 5.44) @ 5300 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASYS 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.129 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.55 V/m; Power Drift = 1.23 dB

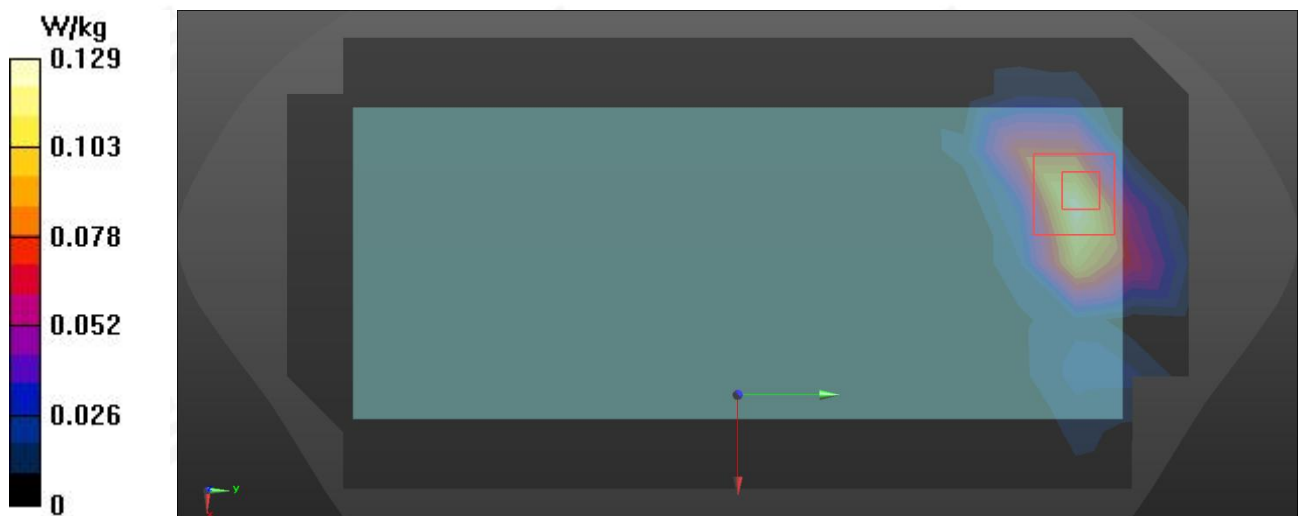
Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.052 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 18%

Maximum value of SAR (measured) = 0.175 W/kg



**Plot 14: 5.6G_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, WLAN 5G (0); Communication System Band: 5G 20M; Frequency: 5500 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used: $f = 5500$ MHz; $\sigma = 4.96$ S/m; $\epsilon_r = 36.50$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.57, 4.87, 5.01) @ 5500 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.128 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.153 V/m; Power Drift = 1.01 dB

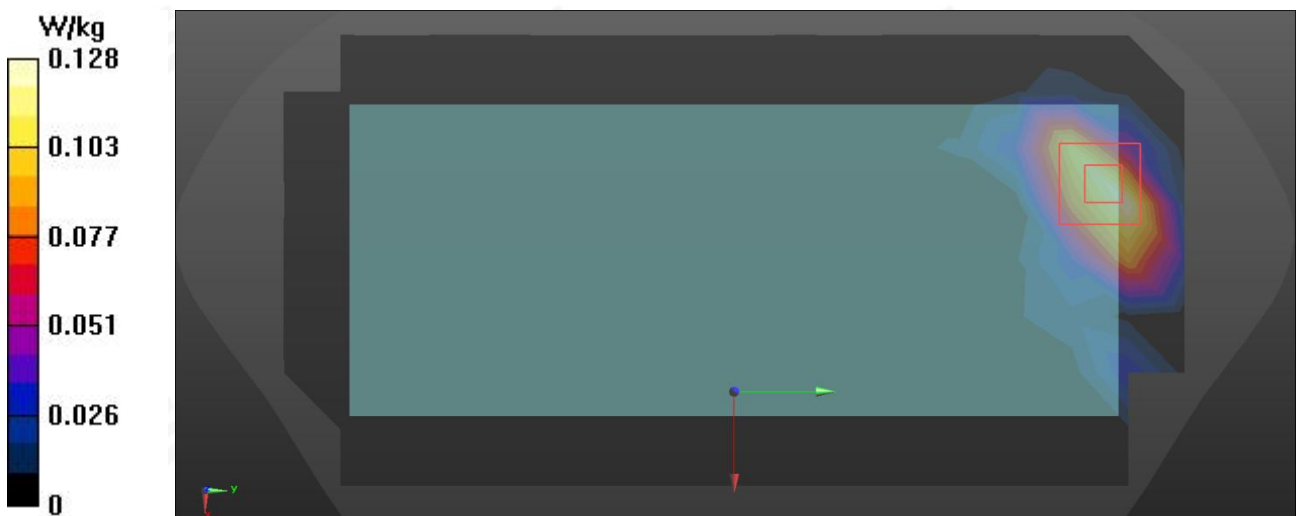
Peak SAR (extrapolated) = 0.509 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.054 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 16.2%

Maximum value of SAR (measured) = 0.219 W/kg



**Plot 15: 5.8G_Front Side_0mm****DUT: Unnamed Device**

Communication System: UID 0, WLAN 5G (0); Communication System Band: 5G 20M; Frequency: 5825 MHz; Communication System PAR: 0 dB; PMF: 1.12202e-005

Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.27$ S/m; $\epsilon_r = 35.95$; $\rho = 1000$ kg/m³

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: EX3DV4 - SN3806; ConvF(4.59, 4.89, 5.03) @ 5825 MHz; Calibrated: 2025/9/11
- Sensor-Surface: 4mm (Mechanical Surface Detection), $z = -9.0, 31.0$
- Electronics: DAE3 Sn428; Calibrated: 2025/9/8
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (9x17x1): Measurement grid: $dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.109 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 0.5980 V/m; Power Drift = 1.08 dB

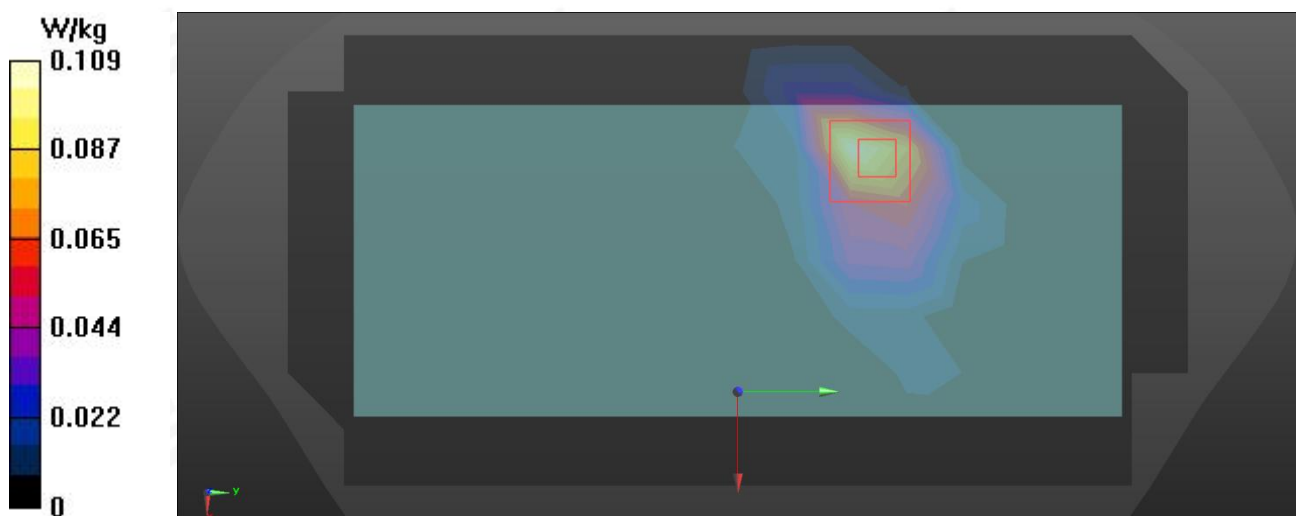
Peak SAR (extrapolated) = 0.619 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.045 W/kg

Smallest distance from peaks to all points 3 dB below = 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 16.9%

Maximum value of SAR (measured) = 0.166 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

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