SAR Test Report

Report No.: AGC10211250401FH01

FCC ID	:	2BOH3-GM-168
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	GM-168
BRAND NAME	:	N/A
MODEL NAME	:	GM-168, GM-268, GM-368, GM-468, GM-568, GM-668, GM-768, GM-868, GM-968
APPLICANT	:	Fujian province getian electronic technology co., ltd
DATE OF ISSUE	:	Jun. 17, 2025
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2019
REPORT VERSION	:	V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 17, 2025	Valid	Initial Release

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Test Report

Applicant Name	Fujian province getian electronic technology co., ltd
Applicant Address	No.21, Qimao South Road, Xiamei Town, Nan 'an City, Fuiian Province, China
Manufacturer Name	Fujian province getian electronic technology co., ltd
Manufacturer Address	No.21, Qimao South Road, Xiamei Town, Nan 'an City, Fuiian Province, China
Factory Name	Fujian province getian electronic technology co., ltd
Factory Address	No.21, Qimao South Road, Xiamei Town, Nan 'an City, Fuiian Province, China
Product Designation	GM-168
Brand Name	N/A
Model Name	GM-168
Series Model(s)	GM-268, GM-368, GM-468, GM-568, GM-668, GM-768, GM-868, GM-968
Difference Description	All the same except model name.
EUT Voltage	DC 3.7V by battery, Input DC 5V
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2019
Date of receipt of test item	Apr. 18, 2025
Test Date	Jun. 03, 2025 to Jun. 07, 2025
Report Template	AGCRT-US-4G/SAR (2021-04-20)

Note: The results of testing in this report apply to the product/system which was tested only.

Prepared By

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Approved By

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1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

Frequency Band	Highest Reported 1g-SAR(W/kg)		Highest Reported 10-g extremity SAR (W/kg)	SAR Test Result
	Face Up (with 25mm separation)	Back Touch with all accessories	Hand(with 0mm separation)	
LTE Band 2	0.105	1.393	1.064	PASS
LTE Band 4	0.086	1.489	1.178	
LTE Band 5	0.357	0.982	1.192	
LTE Band 7	0.081	1.379	1.102	
LTE Band 12	0.072	0.582	0.708	
LTE Band 38	0.072	1.036	0.763	
LTE Band 41	0.098	1.334	1.264	
SAR Test Limit (W/kg)	1.6		4.0	

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg/4.0W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE Std C95.1 ™-2019 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 D05 SAR for LTE Devices v02r05
- KDB 643646 D01 SAR Test for PTT Radios v01r03

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	GM-168
Test Model	GM-168
Hardware Version	GM-168_V1.0 PCBDOC
Software Version	GM168_V1.0 HEX
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
LTE	
Support Band	☒ FDD Band 2 ☒ FDD Band 4 ☒ FDD Band 5 ☒ FDD Band 7 ☒ FDD Band 12 ☐ FDD Band 13 ☐ FDD Band 17 ☐ FDD Band 25 ☐ FDD Band 26 ☒ TDD Band 38 ☐ TDD Band 40 ☒ TDD Band 41 ☐ FDD Band 66 ☐ FDD Band 71 (U.S. Bands)
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 7:2500-2570MHz; Band 12:699-716MHz; Band 38: 2570-2620 MHz; Band 41:2496-2690MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz; Band 12: 729-746 MHz; Band 38: 2570-2620 MHz; Band 41:2496-2690MHz;
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2:0.16 dBi, Band 4:0.16 dBi, Band 5:-1.54 dBi, Band 7:0.47 dBi, Band 12:-1.54 dBi, Band 38:0.47 dBi, Band 41:0.47 dBi
Max. Average Power	Band 2: 22.65dBm; Band 4: 23.24dBm; Band 5: 22.97dBm; Band 7: 22.55dBm; Band 12: 24.54dBm; Band 38: 21.14 dBm; Band 41: 21.24dBm;
Battery	Brand name: N/A Model No. : BL-5C Voltage and Capacitance: DC 3.7V, 1000mAh
Body-Worn Accessories:	Belt Clip
Face-Head Accessories:	None

Note:1.CMU200 can measure the average power and Peak power at the same time
2.The sample used for testing is end product.
3. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type	
	☒ Production unit	☐ Identical Prototype

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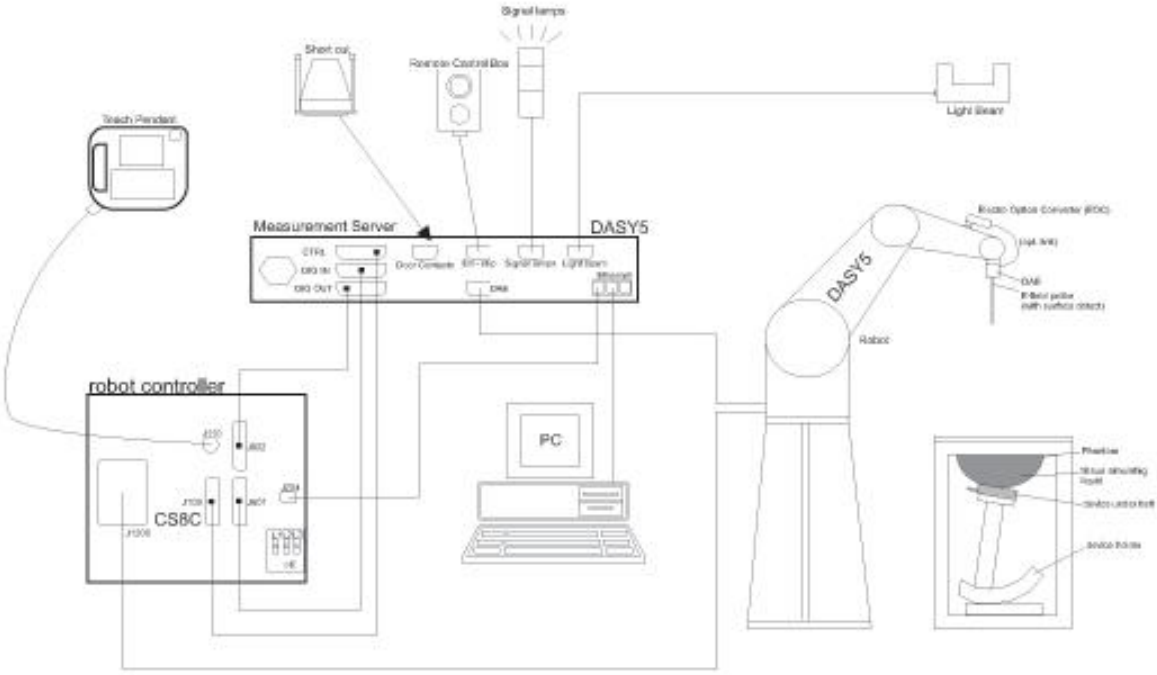
3. SAR MEASUREMENT SYSTEM

3.1. The DASY5 system used for performing compliance tests consists of following items



- A standard high precision 6-axis robot with controller, teach pendant and software.
- Data acquisition electronics (DAE) which attached to the robot arm extension. The DAE consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock
- A dosimetric probe equipped with an optical surface detector system.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital Communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- A Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- Phantoms, device holders and other accessories according to the targeted measurement.

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3.2. DASY5 E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SPEAG. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE-1528 etc.)Under ISO17025.The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	EX3DV4-SN:3953	
Manufacture	SPEAG	
frequency	0.75GHz-6GHz Linearity:±0.9%(k=2)	
Dynamic Range	0.01W/kg-100W/kg Linearity: ±0.9%(k=2)	
Dimensions	Overall length:337mm Tip diameter:2.5mm Typical distance from probe tip to dipole centers:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

3.3. Data Acquisition Electronics description

The data acquisition electronics (DAE) consist if a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement sever is accomplished through an optical downlink fir data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

DAE4

Input Impedance	200MOhm	
The Inputs	Symmetrical and floating	
Common mode rejection	above 80 dB	

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3.4. Robot

The DASY system uses the high precision robots (DASY5:TX60) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from is used.
The XL robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller

3.5. Light Beam Unit

The light beam switch allows automatic “tooling” of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.
The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned prob.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position. e, the same position will be reached with another aligned probe within 0

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3.6. Device Holder

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles. The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.	

3.7. Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chip-disk (DASY5: 128MB), RAM (DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DAYS I/O board, which is directly connected to the PC/104 bus of the CPU board. The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.	

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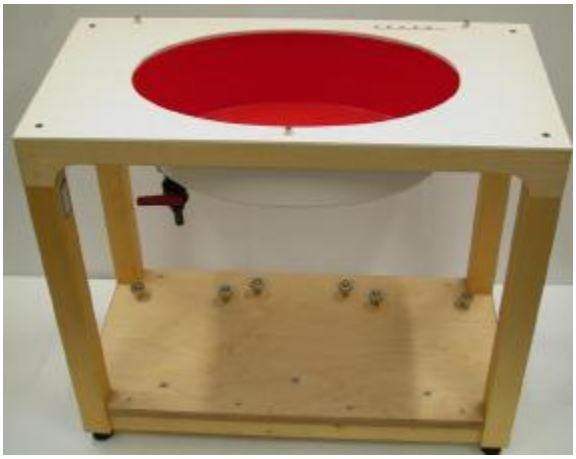
3.8. PHANTOM

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas: Left head Right head Flat phantom	

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

ELI4 Phantom

Flat phantom a fiberglass shell flat phantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom	

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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in 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 occupational/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 given mass density (ρ). The equation description is as below:

$$\mathrm{SAR} = \frac{\mathrm{d}}{\mathrm{d}t}\left(\frac{\mathrm{d}W}{\mathrm{d}m}\right) = \frac{\mathrm{d}}{\mathrm{d}t}\left(\frac{\mathrm{d}W}{\rho \mathrm{d}V}\right)$$

SAR is expressed in units of Watts per kilogram (W/kg)
SAR can be obtained using either of the following equations:

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

$$\mathrm{SAR} = c_h \left.\frac{\mathrm{d}T}{\mathrm{d}t}\right|_{t=0}$$

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c_h	is the heat capacity of the tissue in joules per kilogram and Kelvin;
$\frac{dT}{dt} \mid t = 0$	is the initial time derivative of temperature in the tissue in kelvins per second

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4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance os sensor calibration points to probe tip as `defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g abd 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

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Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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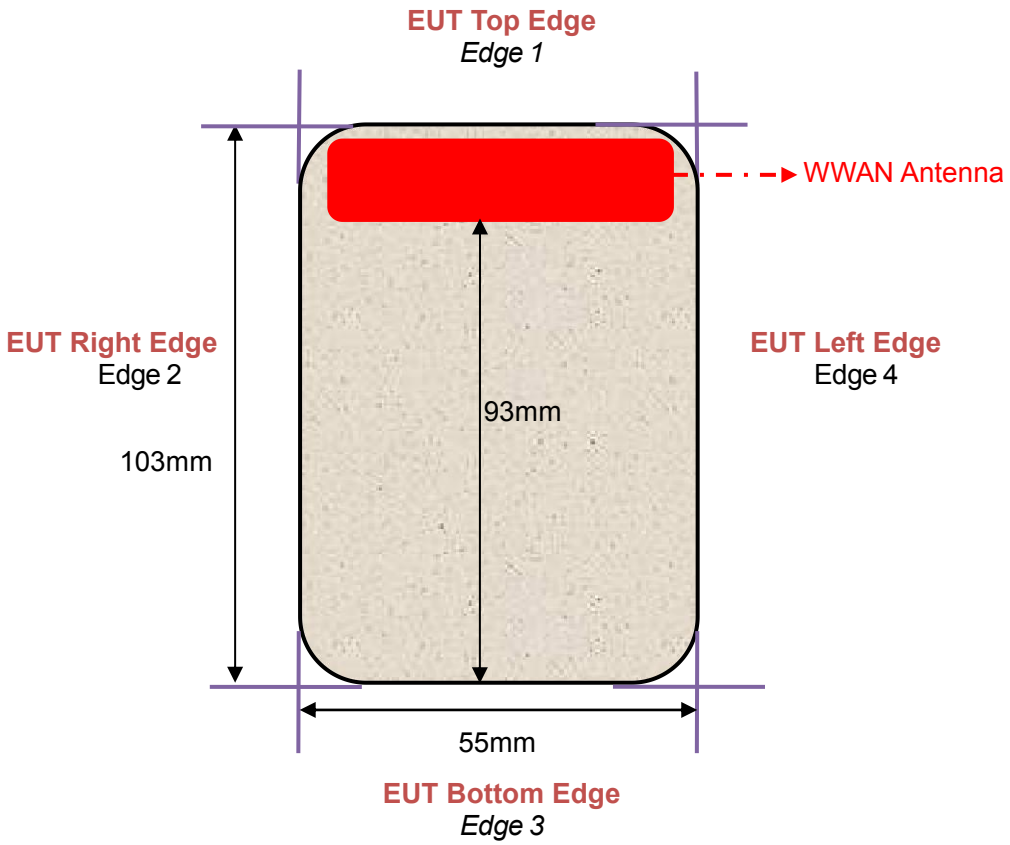
4.3. RF Exposure Conditions

Test Configuration and setting:

The EUT is a model of LTE Portable Mobile Station (MS). It supports LTE technology.

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator were established by air link. The distance between the EUT and the antenna is larger than 50cm, and the output power radiated from the emulator antenna is at least 30db smaller than the output power of EUT.

Antenna Location: (the back view)



For WWAN mode:

Test Configurations	Antenna to edges/surface
Edge 1 (Top)	4mm
Edge 2 (Right)	4mm
Edge 3 (Bottom)	93mm
Edge 4 (Left)	4mm

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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 5.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) / Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
750 Head	35	2	0.0	0.0	63	0.0
835 Head	50.36	1.25	48.39	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0
2600 Head	55.242	0.306	0	44.452	0	0

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5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

Target Frequency (MHz)	head		body	
	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
750	**41.9**	**0.89**	**41.9**	**0.89**
835	**41.5**	**0.90**	**41.5**	**0.90**
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1750	**40.1**	**1.37**	**40.1**	**1.37**
1800 – 2000	**40.0**	**1.40**	**40.0**	**1.40**
2300	39.5	1.67	39.5	1.67
2450	39.2	1.80	39.2	1.80
2600	**39.0**	**1.96**	**39.0**	**1.96**
3000	38.5	2.40	38.5	2.40

(εr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)

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5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY 5 Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Tissue Stimulant Measurement for 750MHz							
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Ambient Temp [℃]	Relative Humidity (%)	Tissue Temp [ºC]	Test time
		εr 41.9 (39.805-43.995)	δ[s/m] 0.89 (0.846-0.935)				
	707.5	42.03	0.89	21.2	53.2	20.8	Jun. 07, 2025
	750	41.59	0.91				

Tissue Stimulant Measurement for 835MHz							
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Ambient Temp [℃]	Relative Humidity (%)	Tissue Temp [ºC]	Test time
		εr 41.5 (39.425-43.575)	δ[s/m] 0.90 (0.855-0.945)				
	829	41.39	0.90	20.9	56.4	20.6	Jun. 08, 2025
	835	40.48	0.92				
	836.5	39.66	0.93				
	844	39.51	0.93				

Tissue Stimulant Measurement for 1750MHz							
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Ambient Temp [℃]	Relative Humidity (%)	Tissue Temp [ºC]	Test time
		εr 40.1 (38.095-42.105)	δ[s/m]1.37 (1.302-1.439)				
	1720	41.39	1.33	20.9	54.3	20.6	Jun. 03, 2025
	1732.5	40.66	1.35				
	1745	40.13	1.36				
	1750	39.65	1.38				

Tissue Stimulant Measurement for 1900MHz							
Head	Fr. (MHz)	Dielectric Parameters (±5%)		Ambient Temp [℃]	Relative Humidity (%)	Tissue Temp [ºC]	Test time
		εr40.00 (38.00-42.00)	δ[s/m]1.40 (1.33-1.47)				
	1860	40.23	1.34	21.2	52.6	20.8	Jun. 04, 2025
	1880	39.99	1.35				
	1900	39.82	1.37				

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Tissue Stimulant Measurement for 2600MHz							
	Fr. (MHz)	Dielectric Parameters (±5%)		Ambient Temp [℃]	Relative Humidity (%)	Tissue Temp [ºC]	Test time
		εr39 (37.05-40.95)	δ[s/m] 1.96(1.86-2.06)				
Head	2506	40.36	1.87	20.7	56.4	20.5	Jun. 05, 2025
	2510	40.23	1.87				
	2535	40.01	1.88				
	2560	39.62	1.88				
	2580	39.22	1.89				
	2593	38.66	1.89				
	2595	38.41	1.90				
	2600	38.27	1.91				
	2610	37.94	1.93				
	2680	37.68	1.95				

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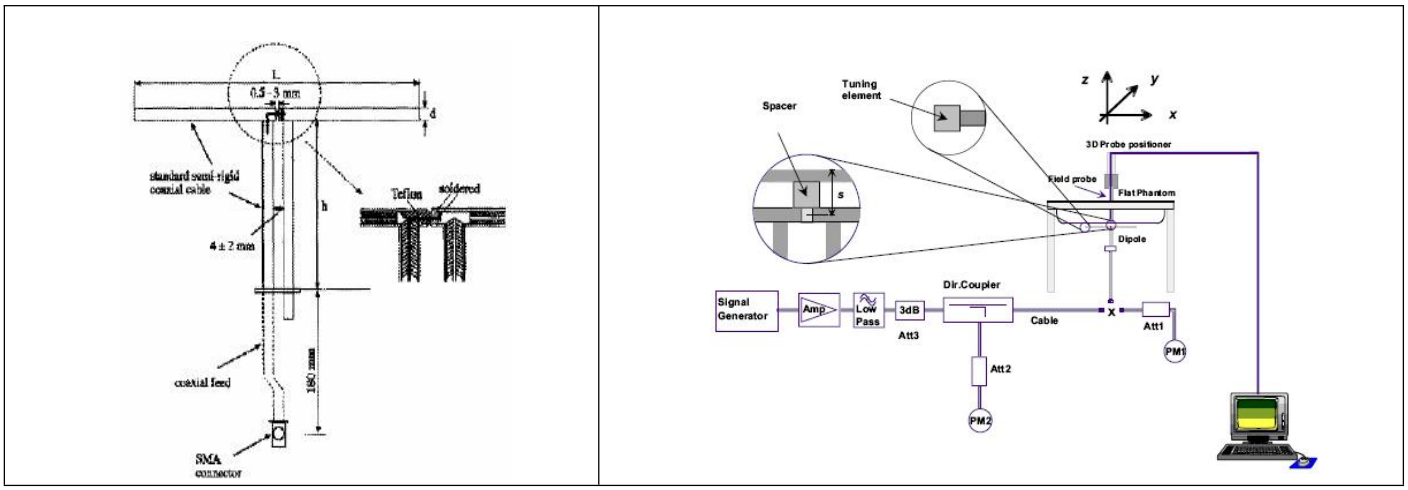
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Each DASY system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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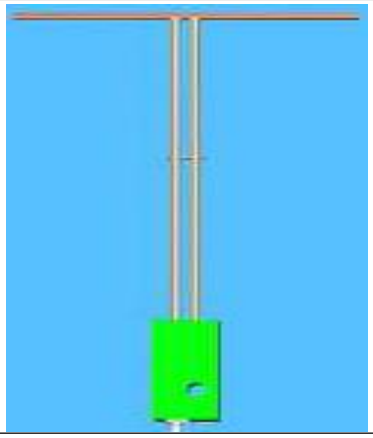
6.2. SAR System Check

6.2.1. Dipoles

	The dipoles used are based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical specifications for the dipoles.

Frequency	L (mm)	h (mm)	d (mm)
750MHz	176	100	6.35
835MHz	161.0	89.8	3.6
1800MHz	72.0	41.7	3.6
1900MHz	68	39.5	3.6
2600MHz	48.5	28.8	3.6

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6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2600MHz							
Validation Kit: SN 2216 DIP 0G750-417& SN 1516 DIP 0G835-399& SN 4611 DIP 1G800-186& SN 2915 DIP 1G900-389& SN 2216 DIP 2G600-407							
Frequency [MHz]	Target Value(W/kg)		Reference Result (± 10%)		Tested Value(W/kg)		Test time
	1g	10g	1g	10g	1g	10g	
750	8.77	5.51	7.89-9.65	4.96-6.06	8.29	5.69	Jun. 07, 2025
835	9.67	6.29	8.70-10.64	5.66-6.92	10.54	6.78	Jun. 08, 2025
1800	36.11	19.04	32.50-39.72	17.14-20.94	36.29	18.86	Jun. 03, 2025
1900	39.83	20.59	35.85-43.81	18.53-22.65	38.83	19.81	Jun. 04, 2025
2600	55.22	25.01	49.70-60.74	22.51-27.51	56.90	26.47	Jun. 05, 2025

Note:
(1) We use a CW signal of 18dBm for system check, and then all SAR values are normalized to 1W forward power. The result must be within ±10% of target value.

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7. EUT TEST POSITION

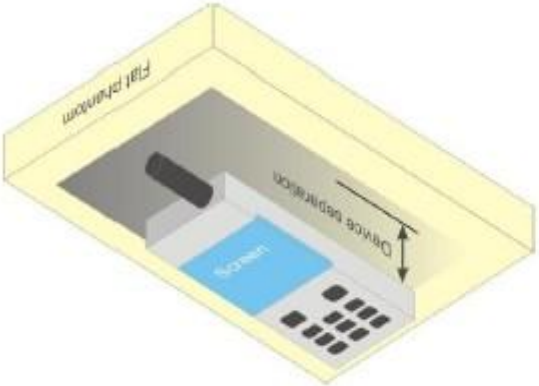
This EUT was tested in **Front Face, Rear Face, Edge2 and Edge4.**

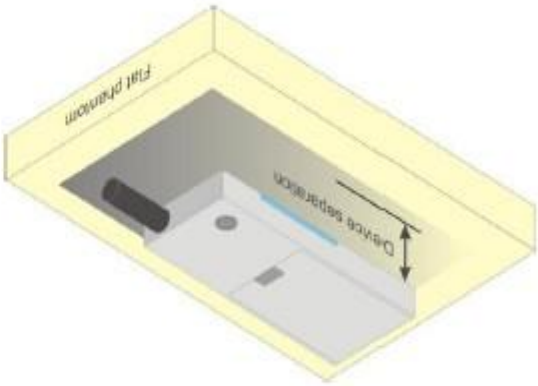
7.1. Test Position

(1) To position the EUT parallel to the phantom surface.

(2) To adjust the EUT parallel to the flat phantom.

(3) To adjust the distance between the EUT surface and the flat phantom to **25mm** while used in front of face, body back touch with all accessories and 0mm while used in hand**.**





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8. SAR EXPOSURE LIMITS

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

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

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9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

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10. TEST EQUIPMENT LIST

No.	Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
AGC-HE-A028	E-Field Probe	Speag- EX3DV4	SN:3953	N/A	2024-09-05	2025-09-04
AGC-HE-E017	SAM Twin Phantom	Speag-SAM	1790	N/A	N/A	N/A
AGC-HE-E017	DAE4	Speag-SD 000 D04 BM	1398	N/A	2025-05-09	2026-05-08
AGC-HE-S002	SAR Software	Speag-DASY5	N/A	52.10.4.1535	N/A	N/A
AGC-HE-E013	Radio Communication Tester	R&S-CMU200	2216/4/24	N/A	2025-1-14	2026-1-13
AGC-HE-A054	Dipole	SATIMO SID750	SN 22/16 DIP 0G750-417	N/A-	2025-05-15	2028-05-14
AGC-HE-A056	Dipole	SATIMO SID835	SN 15/16 DIP 0G835-399	N/A	2025-05-15	2028-05-14
AGC-HE-A016	Dipole	SATIMO SID1800	SN 46/11 DIP 1G800-186	N/A	2025-05-12	2028-05-11
AGC-HE-A059	Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	N/A	2025-05-15	2028-05-14
AGC-HE-A063	Dipole	SATIMO SID2300	SN 22/16 DIP 2G300-412	N/A	2025-05-16	2028-05-15
AGC-HE-A061	Dipole	SATIMO SID2450	SN 29/15 DIP 2G450-393	N/A	2025-05-16	2028-05-15
AGC-HE-A062	Dipole	SATIMO SID2600	SN 22/16 DIP 2G600-407	N/A	2025-05-16	2028-05-15
AGC-HE-E021	Signal Generator	Agilent-E4438C	US41461365	V5.03	2025-05-21	2026-05-20
AGC-EM-E061	EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	2025-05-08	2026-05-07
AGC-HE-E004	Network Analyzer	Rhode & Schwarz ZVL6	101443	3.2	2024-07-24	2025-07-23
AGC-ER-A001	Attenuator	SMA-JK	N/A	N/A	2023-09-21	2025-09-20
AGC-EM-E019	Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
AGC-EM-E040	Directional Couple	Werlatone/ C5571-10	SN99463	N/A	2024-02-01	2026-01-31
AGC-EM-E041	Directional Couple	Werlatone/ C6026-10	SN99482	N/A	2024-02-01	2026-01-31
AGC-BQ-E016	Power Sensor	NRP-Z21	104604	N/A	2025-05-16	2026-05-15
AGC-HE-E023	Power Sensor	NRP-Z23	100323	N/A	2025-01-14	2026-01-13
AGC-HE-S004	Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
AGC-HE-A001	Calibration standard parts for network sub - port	R&S/ ZV-Z132	100707	V2.3.1.0	2024-11-08	2025-11-07
AGC-HE-A002	Thermometer	DigiMate/TP677	3811930452	N/A	2025-05-24	2027-05-23

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:
1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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11. MEASUREMENT UNCERTAINTY

DASY Uncertainty- EX3DV4 Measurement uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	6.95	N	1	1	1	6.95	6.95	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	√0.5	√0.5	0.24	0.24	∞
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	√0.5	√0.5	0.65	0.65	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.45	R	$\sqrt{3}$	1	1	0.26	0.26	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.3	R	$\sqrt{3}$	1	1	1.91	1.91	∞
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	1	1	0.98	0.98	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Test sample Related									
Test sample positioning	E.4.2	2.9	N	1	1	1	2.90	2.90	∞
Device holder uncertainty	E.4.1	3.6	N	1	1	1	3.60	3.60	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				11.97	11.80	
Expanded Uncertainty (95% Confidence interval)			K=2				23.93	23.61	

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DASY Uncertainty- EX3DV4 System Check uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration drift	E.2.1	0.5	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.45	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.15	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.37	0.37	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				7.34	7.07	
Expanded Uncertainty (95% Confidence interval)			K=2				14.67	14.14	

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DASY Uncertainty- EX3DV4 System Validation uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h c×f/e	i c×g/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	6.95	N	1	1	1	6.95	6.95	∞
Axial Isotropy	E.2.2	0.6	R	$\sqrt{3}$	1	1	0.35	0.35	∞
Hemispherical Isotropy	E.2.2	1.6	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.45	R	$\sqrt{3}$	1	1	0.26	0.26	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
System check source (dipole)									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				11.62	11.46	
Expanded Uncertainty (95% Confidence interval)			K=2				23.25	22.91	

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12. CONDUCTED POWER MEASUREMENT

LTE Band

LTE (TDD) Considerations

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

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

LTE TDD Band 38,41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

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

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

Table 4.2-2: Uplink-downlink configurations

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

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Calculated Duty Cycle

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

Note: Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U
Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
where
Ts = 1/(15000 x 2048) seconds

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LTE Band

Conducted Power of LTE Band 2(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18607**	**Channel 18900**	**Channel 19193**
1.4MHz	QPSK	1	0	0	21.74	21.30	21.08
			3	0	21.82	21.23	20.87
			5	0	21.92	21.18	20.67
		3	0	0	21.74	21.28	20.97
			2	0	21.73	21.24	20.96
			3	0	21.88	21.19	20.74
		6	0	1	20.51	20.43	20.12
	16QAM	1	0	1	21.00	20.56	20.36
			3	1	21.08	20.49	20.15
			5	1	21.14	20.44	19.94
		3	0	1	20.90	20.59	20.42
			2	1	20.90	20.57	20.42
			3	1	20.99	20.49	20.21
		6	0	2	20.07	19.57	19.50
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18615**	**Channel 18900**	**Channel 19185**
3MHz	QPSK	1	0	0	21.57	21.36	21.47
			7	0	21.89	21.21	21.05
			14	0	22.01	21.13	20.46
		8	0	1	20.84	20.56	20.53
			4	1	20.82	20.55	20.53
			7	1	21.11	20.37	20.22
		15	0	1	20.94	20.42	20.41
	16QAM	1	0	1	20.89	20.65	21.23
			7	1	21.17	20.49	20.86
			14	1	21.29	20.34	20.33
		8	0	2	19.97	19.79	20.00
			4	2	19.97	19.79	20.00
			7	2	20.20	19.62	19.69
		15	0	2	20.06	19.64	19.70

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18625	Channel 18900	Channel 19175
5MHz	QPSK	1	0	0	21.79	21.55	22.11
			13	0	22.14	21.27	21.46
			24	0	22.02	21.26	20.77
		12	0	1	20.95	20.53	21.04
			6	1	20.99	20.53	21.04
			13	1	21.11	20.38	20.32
		25	0	1	21.24	20.34	20.57
	16QAM	1	0	1	21.17	20.80	21.20
			13	1	21.52	20.59	20.63
			24	1	21.45	20.55	19.94
		12	0	2	20.09	19.75	20.20
			6	2	20.09	19.76	20.20
			13	2	20.23	19.56	19.63
		25	0	2	20.28	19.66	19.75
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	0	21.79	21.75	**22.65**
			25	0	21.73	21.23	22.09
			49	0	22.20	21.30	20.87
		25	0	1	20.85	20.47	21.56
			13	1	20.86	20.48	21.55
			25	1	20.80	20.28	20.54
		50	0	1	20.74	20.25	20.85
	16QAM	1	0	1	21.48	20.98	21.77
			25	1	21.56	20.55	21.30
			49	1	22.01	20.57	20.11
		25	0	2	20.22	19.73	20.86
			13	2	20.22	19.76	20.79
			25	2	20.32	19.54	19.74

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18675**	**Channel 18900**	**Channel 19125**
15MHz	QPSK	1	0	0	21.78	21.87	21.68
			38	0	22.11	21.37	22.40
			74	0	22.51	21.44	21.07
		36	0	1	21.30	20.48	21.27
			18	1	21.37	20.47	21.27
			39	1	21.35	20.36	21.26
		75	0	1	21.27	20.40	21.25
	16QAM	1	0	1	21.37	21.14	21.13
			38	1	21.62	20.64	21.86
			74	1	22.09	20.76	20.70
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18700**	**Channel 18900**	**Channel 19100**
20MHz	QPSK	1	0	0	21.99	21.73	21.60
			50	0	22.41	21.37	22.54
			99	0	21.81	21.64	20.99
		50	0	1	21.14	20.75	20.97
			25	1	21.15	20.76	20.95
			50	1	21.51	20.50	21.02
		100	0	1	21.53	20.37	21.73
	16QAM	1	0	1	21.23	21.06	21.24
			50	1	21.78	20.84	22.18
			99	1	21.23	20.89	20.86

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19957	Channel 20175	Channel 20393
1.4MHz	QPSK	1	0	0	21.73	22.84	21.71
			3	0	21.77	22.73	21.79
			5	0	21.73	22.66	21.81
		3	0	0	21.84	22.79	21.80
			2	0	21.80	22.78	21.75
			3	0	21.80	22.68	21.78
		6	0	1	20.54	21.82	20.74
	16QAM	1	0	1	20.48	21.83	20.57
			3	1	20.60	21.75	20.59
			5	1	20.57	21.73	20.66
		3	0	1	20.45	21.83	20.69
			2	1	20.44	21.83	20.68
			3	1	20.43	21.75	20.76
		6	0	2	19.12	20.93	19.50
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19965	Channel 20175	Channel 20385
3MHz	QPSK	1	0	0	21.72	23.05	21.57
			7	0	21.70	22.77	21.76
			14	0	21.60	22.47	21.77
		8	0	1	20.34	21.92	20.59
			4	1	20.31	21.93	20.57
			7	1	20.36	21.79	20.71
		15	0	1	20.26	21.87	20.67
	16QAM	1	0	1	20.46	22.38	20.53
			7	1	20.45	22.13	20.73
			14	1	20.31	21.88	20.80
		8	0	2	19.13	21.20	19.42
			4	2	19.12	21.20	19.43
			7	2	19.12	21.00	19.50
		15	0	2	19.06	21.00	19.43

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19975	Channel 20175	Channel 20375
5MHz	QPSK	1	0	0	21.93	**23.24**	21.58
			13	0	21.78	22.78	21.63
			24	0	21.80	22.45	21.94
		12	0	1	20.26	22.09	20.47
			6	1	20.25	22.09	20.53
			13	1	20.33	21.68	20.67
		25	0	1	20.34	21.85	20.63
	16QAM	1	0	1	20.56	22.37	20.55
			13	1	20.39	22.01	20.60
			24	1	20.63	21.71	20.84
		12	0	2	19.07	21.13	19.34
			6	2	19.08	21.14	19.35
			13	2	19.16	20.84	19.47
		25	0	2	19.11	20.91	19.43
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	0	21.71	22.76	21.43
			25	0	21.49	22.71	21.36
			49	0	22.01	22.15	21.87
		25	0	1	19.99	21.57	20.16
			13	1	20.00	21.57	20.15
			25	1	20.41	21.27	20.31
		50	0	1	20.24	21.44	20.35
	16QAM	1	0	1	20.52	22.04	20.46
			25	1	20.21	22.06	20.35
			49	1	20.94	21.44	20.89
		25	0	2	18.76	20.61	19.00
			13	2	18.72	20.60	19.04
			25	2	19.13	20.40	19.17

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20025**	**Channel 20175**	**Channel 20325**
15MHz	QPSK	1	0	0	21.64	22.58	21.34
			38	0	21.79	22.76	21.39
			74	0	22.27	21.60	21.88
		36	0	1	20.70	21.45	20.39
			18	1	20.68	21.44	20.37
			39	1	20.68	21.47	20.36
		75	0	1	20.69	21.45	20.39
	16QAM	1	0	1	21.02	21.51	20.41
			38	1	21.11	21.84	20.49
			74	1	21.59	20.64	20.97
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20050**	**Channel 20175**	**Channel 20300**
20MHz	QPSK	1	0	0	21.80	22.47	22.07
			50	0	22.16	22.76	21.30
			99	0	23.09	21.37	21.88
		50	0	1	20.40	21.69	20.20
			25	1	20.41	21.71	20.22
			50	1	21.21	20.92	20.44
		100	0	1	21.26	21.41	20.36
	16QAM	1	0	1	20.87	21.50	21.49
			50	1	21.33	21.86	20.70
			99	1	22.14	20.47	21.17

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20407	Channel 20525	Channel 20643
1.4MHz	QPSK	1	0	0	21.97	22.71	21.53
			3	0	21.97	22.75	21.72
			5	0	21.84	22.95	21.70
		3	0	0	22.04	22.78	21.67
			2	0	21.99	22.79	21.67
			3	0	21.97	22.90	21.82
		6	0	1	21.18	22.03	20.88
	16QAM	1	0	1	21.10	21.98	20.69
			3	1	21.08	22.09	20.84
			5	1	21.05	22.27	20.85
		3	0	1	21.27	21.89	20.81
			2	1	21.25	21.97	20.79
			3	1	21.23	22.09	20.86
		6	0	2	19.96	21.10	19.87
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20415	Channel 20525	Channel 20635
3MHz	QPSK	1	0	0	22.06	22.46	21.41
			7	0	21.95	22.86	21.71
			14	0	21.68	22.95	21.77
		8	0	1	21.25	21.85	20.70
			4	1	21.23	21.82	20.69
			7	1	21.17	22.09	20.89
		15	0	1	21.23	21.98	20.90
	16QAM	1	0	1	21.68	21.70	20.62
			7	1	21.60	22.17	20.81
			14	1	21.43	22.26	20.81
		8	0	2	20.31	20.91	19.93
			4	2	20.32	20.89	19.95
			7	2	20.45	21.18	20.13
		15	0	2	20.30	21.02	19.95

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20425	Channel 20525	Channel 20625
5MHz	QPSK	1	0	0	22.11	22.37	22.02
			13	0	21.83	22.88	21.57
			24	0	21.29	**22.97**	21.92
		12	0	1	21.12	21.67	20.87
			6	1	21.12	21.68	20.87
			13	1	20.75	22.19	20.77
		25	0	1	21.19	21.95	20.76
	16QAM	1	0	1	21.43	21.55	21.04
			13	1	21.21	22.15	20.54
			24	1	20.76	22.26	20.91
		12	0	2	20.15	20.75	19.98
			6	2	20.17	20.73	20.01
			13	2	19.85	21.24	19.93
		25	0	2	20.17	21.10	19.90
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20450	Channel 20525	Channel 20600
10MHz	QPSK	1	0	0	21.77	21.53	22.85
			25	0	21.04	22.77	21.92
			49	0	21.96	22.78	21.94
		25	0	1	20.74	21.37	21.61
			13	1	20.75	21.32	21.62
			25	1	20.41	21.69	20.62
		50	0	1	20.63	21.75	21.24
	16QAM	1	0	1	21.48	20.77	22.02
			25	1	20.86	22.05	21.10
			49	1	21.70	22.08	20.99
		25	0	2	19.84	20.62	20.68
			13	2	19.90	20.58	20.76
			25	2	19.62	20.88	19.89

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20775**	**Channel 21100**	**Channel 21425**
5MHz	QPSK	1	0	0	22.23	21.14	20.29
			12	0	22.47	21.44	20.78
			24	0	**22.55**	21.70	21.51
		12	0	1	21.26	20.41	19.56
			6	1	21.27	20.39	19.54
			13	1	21.46	20.69	20.14
		25	0	1	21.32	20.70	19.95
	16QAM	1	0	1	21.62	20.46	19.48
			12	1	21.80	20.77	19.92
			24	1	21.92	21.01	20.59
		12	0	2	20.30	19.48	18.81
			6	2	20.29	19.48	18.81
			13	2	20.80	19.82	19.36
		25	0	2	20.61	19.73	19.17
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20800**	**Channel 21100**	**Channel 21400**
10MHz	QPSK	1	0	0	22.10	21.28	21.36
			24	0	22.35	21.95	18.30
			49	0	21.12	19.25	18.34
		25	0	1	21.04	20.11	19.73
			12	1	21.06	20.67	19.80
			25	1	20.99	20.91	20.18
		50	0	1	20.99	20.10	19.10
	16QAM	1	0	1	21.91	21.25	20.44
			24	1	20.95	19.49	20.48
			49	1	20.59	19.12	20.50
		25	0	2	20.45	19.84	19.05
			12	2	20.20	20.20	19.39
			25	2	21.77	20.68	20.50
		50	0	2	20.47	19.26	19.01

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20825**	**Channel 21100**	**Channel 21375**
15MHz	QPSK	1	0	0	21.72	20.54	20.50
			37	0	21.58	21.27	20.09
			74	0	21.05	22.06	21.16
		37	0	1	20.48	20.60	19.66
			16	1	20.50	20.61	19.71
			35	1	20.48	20.62	19.69
		75	0	1	20.44	20.65	19.72
	16QAM	1	0	1	21.53	19.90	19.87
			37	1	21.54	20.64	19.68
			74	1	20.88	21.40	20.64
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20850**	**Channel 21100**	**Channel 21350**
20MHz	QPSK	1	0	0	21.90	20.36	20.80
			49	0	21.12	21.36	19.89
			99	0	20.33	22.24	21.02
		50	0	1	20.91	20.03	19.50
			25	1	20.96	20.03	19.52
			49	1	20.15	20.97	19.56
		100	0	1	19.78	20.82	19.65
	16QAM	1	0	1	21.31	19.78	20.70
			49	1	20.57	20.80	19.71
			99	1	19.78	21.46	20.66

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23017	Channel 23095	Channel 23173
1.4MHz	QPSK	1	0	0	15.59	21.77	21.64
			3	0	21.94	21.92	21.10
			5	0	22.10	22.12	20.92
		3	0	0	15.67	21.92	21.55
			2	0	15.65	21.89	21.50
			3	0	16.05	22.05	21.03
		6	0	1	15.00	21.05	20.57
	16QAM	1	0	1	20.93	20.85	20.95
			3	1	21.08	21.11	20.48
			5	1	21.24	21.30	20.24
		3	0	1	21.20	21.11	20.67
			2	1	21.18	21.11	20.66
			3	1	21.38	21.33	20.26
		6	0	2	20.22	20.12	19.63
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23025	Channel 23095	Channel 23165
3MHz	QPSK	1	0	0	23.33	21.72	23.40
			7	0	23.58	21.98	21.82
			14	0	23.54	22.57	20.88
		8	0	1	22.80	20.91	22.10
			4	1	22.78	20.90	22.09
			7	1	22.79	21.38	20.77
		15	0	1	22.76	21.16	21.52
	16QAM	1	0	1	22.95	20.89	22.64
			7	1	23.21	21.16	21.10
			14	1	23.08	21.73	20.12
		8	0	2	21.89	19.91	21.23
			4	2	21.88	19.92	21.25
			7	2	21.93	20.41	19.97
		15	0	2	21.78	20.17	20.59

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23035	Channel 23095	Channel 23155
5MHz	QPSK	1	0	0	23.53	22.09	**24.54**
			13	0	23.61	22.07	22.92
			24	0	22.84	23.57	21.11
		12	0	1	22.82	20.95	23.28
			6	1	22.79	20.94	23.31
			13	1	22.45	21.70	21.29
		25	0	1	22.66	21.37	22.42
	16QAM	1	0	1	22.52	21.38	23.80
			13	1	22.62	21.38	22.25
			24	1	21.80	22.88	20.37
		12	0	2	21.74	20.01	22.43
			6	2	21.73	20.02	22.44
			13	2	21.44	20.83	20.43
		25	0	2	21.58	20.40	21.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23060	Channel 23095	Channel 23130
10MHz	QPSK	1	0	0	23.46	22.92	21.73
			25	0	22.54	21.95	24.48
			49	0	22.41	24.44	21.23
		25	0	1	22.48	21.20	21.80
			13	1	22.47	21.19	21.78
			25	1	21.12	22.36	22.62
		50	0	1	21.85	21.83	22.26
	16QAM	1	0	1	23.07	22.10	20.81
			25	1	22.08	21.15	23.54
			49	1	22.06	23.83	20.45
		25	0	2	21.39	20.11	20.90
			13	2	21.42	20.13	20.91
			25	2	20.18	21.50	21.74

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Conducted Power of LTE Band 38 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 37775	Channel 38000	Channel 38225
5MHz	QPSK	1	0	0	20.92	21.05	20.85
			12	0	20.90	20.91	20.78
			24	0	20.96	21.01	20.90
		12	0	1	19.84	19.96	19.94
			6	1	19.81	19.98	19.93
			13	1	19.88	19.99	20.00
		25	0	1	19.88	19.93	19.94
	16QAM	1	0	1	20.08	20.23	20.23
			12	1	20.03	20.22	20.19
			24	1	20.16	20.23	20.31
		12	0	2	18.87	18.99	19.11
			6	2	18.86	18.98	19.11
			13	2	18.89	19.03	19.15
		25	0	2	18.83	19.04	19.06
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 37800	Channel 38000	Channel 38200
10MHz	QPSK	1	0	0	21.00	21.11	20.86
			24	0	20.81	20.86	20.66
			49	0	21.12	21.04	20.93
		25	0	1	19.70	19.79	19.81
			12	1	19.76	19.82	19.80
			25	1	19.88	19.86	19.78
		50	0	1	19.76	19.81	19.81
	16QAM	1	0	1	20.02	20.26	20.21
			24	1	19.95	20.17	20.08
			49	1	20.20	20.22	20.24
		25	0	2	18.77	18.92	18.88
			12	2	18.83	18.93	18.89
			25	2	18.94	18.99	18.90

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Conducted Power of LTE Band 38 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 37825**	**Channel 38000**	**Channel 38175**
15MHz	QPSK	1	0	0	20.93	**21.14**	20.96
			38	0	21.03	21.06	20.80
			74	0	21.02	20.98	20.89
		37	0	1	19.98	19.95	19.96
			18	1	19.97	19.99	19.96
			37	1	19.96	19.98	19.95
		75	0	1	19.91	19.97	19.96
	16QAM	1	0	1	20.09	20.27	20.58
			38	1	20.17	20.26	20.44
			74	1	20.16	20.25	20.56
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 37850**	**Channel 38000**	**Channel 38150**
20MHz	QPSK	1	0	0	21.05	21.09	21.02
			49	0	21.06	20.96	20.91
			99	0	21.08	20.94	20.92
		50	0	1	19.93	20.02	20.05
			25	1	19.92	20.01	20.04
			49	1	19.96	20.02	19.96
		100	0	1	19.93	19.96	20.01
	16QAM	1	0	1	20.08	20.41	20.29
			49	1	20.26	20.40	20.29
			99	1	20.29	20.31	20.24

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Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 39675	Channel 40620	Channel 41565
5MHz	QPSK	1	0	0	20.91	21.09	20.41
			12	0	20.80	21.04	20.47
			24	0	20.89	21.06	20.49
		12	0	1	19.59	19.91	19.17
			6	1	19.63	19.91	19.17
			13	1	19.62	19.92	19.22
		25	0	1	19.62	19.96	19.18
	16QAM	1	0	1	19.89	20.29	19.75
			12	1	19.82	20.15	19.52
			24	1	19.87	20.23	19.81
		12	0	2	18.73	19.03	18.36
			6	2	18.73	19.02	18.37
			13	2	18.74	19.00	18.41
		25	0	2	18.70	19.09	18.34
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 39700	Channel 40620	Channel 41540
10MHz	QPSK	1	0	0	20.96	21.20	20.59
			24	0	20.74	21.07	20.44
			49	0	20.99	21.14	20.60
		25	0	1	19.48	19.95	19.51
			12	1	19.49	19.94	19.51
			25	1	19.51	19.88	19.16
		50	0	1	19.51	19.89	19.16
	16QAM	1	0	1	20.04	20.46	19.99
			24	1	19.75	20.13	19.49
			49	1	20.06	20.32	19.91
		25	0	2	18.71	19.04	18.12
			12	2	18.73	19.05	18.13
			25	2	18.69	19.07	18.27

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Conducted Power of LTE Band 41(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 39725**	**Channel 40620**	**Channel 41515**
15MHz	QPSK	1	0	0	20.99	**21.24**	20.71
			37	0	20.89	21.21	20.54
			74	0	21.06	21.17	20.57
		37	0	1	19.69	20.07	19.58
			19	1	19.70	20.07	19.58
			38	1	19.69	20.07	19.59
		75	0	1	19.70	20.08	19.58
	16QAM	1	0	1	19.96	20.44	20.33
			37	1	19.88	20.26	20.10
			74	1	20.07	20.32	20.13
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 39750**	**Channel 40620**	**Channel 41490**
20MHz	QPSK	1	0	0	21.04	21.11	20.58
			49	0	20.92	21.16	20.65
			99	0	21.10	21.06	20.55
		50	0	1	19.58	20.05	19.78
			25	1	19.57	20.04	19.77
			50	1	19.72	20.00	19.46
		100	0	1	19.63	20.01	19.65
	16QAM	1	0	1	19.98	20.55	20.09
			49	1	19.88	20.38	19.94
			99	1	20.09	20.39	19.82

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The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.
UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	＞5	＞4	＞8	＞12	＞16	＞18	≤1
16QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
16QAM	＞5	＞4	＞8	＞12	＞16	＞18	≤2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.3

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Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.3.2	41	5	>6	≤1
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10 6.6.3.3.11	28 28	5, 10	Table 5.4.2-1	N/A
			5	≥ 2	≤ 1
NS_18			10, 15, 20	≥ 1	≤ 4
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
…					
NS_20	-	-	-	-	-

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Face up SAR was performed with the device configured in the positions according to KDB 643646, Body SAR was performed with the device configured with all accessories close to the Flat Phantom and hand SAR was performed with the device configured close to the Flat Phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
   (1) When the original highest measured SAR is ≥0.8W/kg, repeat that measurement once.
   (2) 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.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mW)/ maximum measurement output power(mW)]
4. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
5. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
6. Per KDB 941125 D05v02r05. 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 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.
7. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
8. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is >not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤1.45W/kg. Per KDB 941125 D05v02r03, smaller bandwidth SAR testing is not required.
9. Per KDB 643646 D01, Body SAR is measured with the radio placed in a body-worn accessory, positioned against a flat phantom, representative of the normal operating conditions expected by users and typically with a standard default audio accessory supplied with the radio.

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10. The EUT only contains the Testing antenna, Standard battery and default body-worn accessory specified by customer.

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13.1.3. Test Result

SAR MEASUREMENT														
Depth of Liquid (cm):>15														
Product: GM-168														
Test Mode: LTE Band 2														
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB Allocation**									
20	**QPSK**	Face Up	1	0	18900	1880	0.10	**0.099**	22.00	21.73	1.064	**0.105**	1.6
		Body back touch with all accessories	1	0	18700	1860	0.19	1.22	22.00	21.99	1.002	1.223	1.6
		Body back touch with all accessories	1	0	18900	1880	0.10	1.26	22.00	21.73	1.064	1.341	1.6
		Body back touch with all accessories	1	0	19100	1900	-0.02	**1.27**	22.00	21.60	1.096	**1.393**	1.6
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**10-g extremity SAR**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB Allocation**									
20	**QPSK**	Hand back	1	0	18900	1880	-0.18	**1**	22.00	21.73	1.064	**1.064**	4.0
		Hand front	1	0	18900	1880	0.10	0.587	22.00	21.73	1.064	0.625	4.0
		Edge 2(Right)	1	0	18900	1880	0.10	0.496	22.00	21.73	1.064	0.528	4.0
		Edge 4(Left)	1	0	18900	1880	0.13	0.437	22.00	21.73	1.064	0.465	4.0

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SAR MEASUREMENT														
Depth of Liquid (cm):>15														
Product: GM-168														
Test Mode: LTE Band 4														
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
20	**QPSK**	Face Up	1	0	20175	1732.5	-0.18	**0.085**	22.50	22.47	1.007	**0.086**	1.6
		Body back touch with all accessories	1	0	20050	1720	0.06	**1.39**	22.10	21.80	1.072	**1.489**	1.6
		Body back touch with all accessories	1	0	20175	1732.5	0.13	1.32	22.50	22.47	1.007	1.329	1.6
		Body back touch with all accessories	1	0	20300	1745	0.11	1.35	22.10	22.07	1.007	1.359	1.6
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**10-g extremity SAR**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
20	**QPSK**	Hand back	1	0	20175	1732.5	0.06	**1.17**	22.50	22.47	1.007	**1.178**	4.0
		Hand front	1	0	20175	1732.5	0.18	0.594	22.50	22.47	1.007	0.598	4.0
		Edge 2(Right)	1	0	20175	1732.5	-0.14	0.560	22.50	22.47	1.007	0.564	4.0
		Edge 4(Left)	1	0	20175	1732.5	0.19	0.416	22.50	22.47	1.007	0.419	4.0

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SAR MEASUREMENT														
Depth of Liquid (cm):>15														
Product: GM-168														
Test Mode: LTE Band 5														
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Face Up	1	0	20525	836.5	-0.07	**0.320**	22.00	21.53	1.114	**0.357**	1.6
		Body back touch with all accessories	1	0	20450	829	0.10	0.878	22.00	21.77	1.054	0.926	1.6
		Body back touch with all accessories	1	0	20525	836.5	-0.05	0.881	22.00	21.53	1.114	**0.982**	1.6
		Body back touch with all accessories	1	0	20600	844	0.15	**0.907**	23.00	22.85	1.035	0.939	1.6
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**10-g extremity SAR**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Hand back	1	0	20525	836.5	-0.17	0.772	22.00	21.53	1.114	0.860	4.0
		Hand front	1	0	20525	836.5	0.04	**1.07**	22.00	21.53	1.114	**1.192**	4.0
		Edge 2(Right)	1	0	20525	836.5	0.10	0.640	22.00	21.53	1.114	0.713	4.0
		Edge 4(Left)	1	0	20525	836.5	0.08	0.843	22.00	21.53	1.114	0.939	4.0

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SAR MEASUREMENT														
Depth of Liquid (cm):>15														
Product: GM-168														
Test Mode: LTE Band 7														
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
20	**QPSK**	Face Up	1	0	21100	2535	-0.11	**0.070**	21.00	20.36	1.159	**0.081**	1.6
		Body back touch with all accessories	1	0	20850	2510	0.15	1.16	22.60	21.90	1.175	1.363	1.6
		Body back touch with all accessories	1	0	21100	2535	0.10	**1.19**	21.00	20.36	1.159	**1.379**	1.6
		Body back touch with all accessories	1	0	21350	2560	0.16	1.16	21.00	20.80	1.047	1.215	1.6
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**10-g extremity SAR**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
20	**QPSK**	Hand back	1	0	21100	2535	0.10	**0.951**	21.00	20.36	1.159	**1.102**	4.0
		Hand front	1	0	21100	2535	-0.06	0.662	21.00	20.36	1.159	0.767	4.0
		Edge 2(Right)	1	0	21100	2535	0.12	0.267	21.00	20.36	1.159	0.309	4.0
		Edge 4(Left)	1	0	21100	2535	0.03	0.349	21.00	20.36	1.159	0.404	4.0

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SAR MEASUREMENT														
Depth of Liquid (cm):>15														
Product: GM-168														
Test Mode: LTE Band 12														
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Face Up	1	0	23095	707.5	0.10	**0.049**	24.60	22.92	1.472	**0.072**	1.6
		Body back touch with all accessories	1	0	23095	707.5	0.16	**0.395**	24.60	22.92	1.472	**0.582**	1.6
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**10-g extremity SAR**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Hand back	1	0	23095	707.5	0.01	**0.481**	24.60	22.92	1.472	**0.708**	4.0
		Hand front	1	0	23095	707.5	-0.19	0.480	24.60	22.92	1.472	0.707	4.0
		Edge 2(Right)	1	0	23095	707.5	0.18	0.195	24.60	22.92	1.472	0.287	4.0
		Edge 4(Left)	1	0	23095	707.5	0.12	0.182	24.60	22.92	1.472	0.268	4.0

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SAR MEASUREMENT														
Depth of Liquid (cm):>15														
Product: GM-168														
Test Mode: LTE Band 38														
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Face Up	1	0	38000	2595	0.14	**0.070**	21.20	21.09	1.026	**0.072**	1.6
		Body back touch with all accessories	1	0	37850	2580	0.06	1	21.20	21.05	1.035	1.035	1.6
		Body back touch with all accessories	1	0	38000	2595	0.07	**1.01**	21.20	21.09	1.026	**1.036**	1.6
		Body back touch with all accessories	1	0	38150	2610	0.10	0.983	21.20	21.02	1.042	1.025	1.6
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**10-g extremity SAR**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Hand back	1	0	38000	2595	0.07	**0.744**	21.20	21.09	1.026	**0.763**	4.0
		Hand front	1	0	38000	2595	-0.09	0.595	21.20	21.09	1.026	0.610	4.0
		Edge 2(Right)	1	0	38000	2595	-0.03	0.234	21.20	21.09	1.026	0.240	4.0
		Edge 4(Left)	1	0	38000	2595	-0.14	0.308	21.20	21.09	1.026	0.316	4.0

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SAR MEASUREMENT														
Depth of Liquid (cm):>15														
Product: GM-168														
Test Mode: LTE Band 41														
BW MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
20	**QPSK**	Face Up	1	0	40620	2593	-0.03	**0.094**	21.30	21.11	1.045	**0.098**	1.6
		Body back touch with all accessories	1	0	39750	2506	0.05	**1.17**	21.30	21.04	1.062	1.242	1.6
		Body back touch with all accessories	1	0	40620	2593	0.07	0.987	21.30	21.11	1.045	1.031	1.6
		Body back touch with all accessories	1	0	41490	2680	0.04	1.13	21.30	20.58	1.180	**1.334**	1.6
BW MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±0.2dB)**	**10-g extremity SAR**	**Max. Tune up Power (dBm)**	**Meas. output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**									
20	**QPSK**	Hand back	1	0	40620	2593	0.09	**1.21**	21.30	21.11	1.045	**1.264**	4.0
		Hand front	1	0	40620	2593	-0.11	0.831	21.30	21.11	1.045	0.868	4.0
		Edge 2(Right)	1	0	40620	2593	0.02	0.382	21.30	21.11	1.045	0.399	4.0
		Edge 4(Left)	1	0	40620	2593	-0.01	0.457	21.30	21.11	1.045	0.477	4.0

Note:
·The test separation for face up is 25mm, for body back with all accessory is 0mm, and for hand is 0mm.

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Repeated SAR												
Product: GM-168												
Test Mode: LTE Band 2& LTE Band 4& LTE Band 5& LTE Band 7& LTE Band 38& LTE Band 41												
Position	**Mode**		**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Third SAR (1g) (W/kg)**	**Limit W/kg**	
	UL RB Allocation	**UL RB START**										
Body back touch with all accessories	1	0	19100	1900	-0.02	1.22	--	--	--	--	1.6	
Body back touch with all accessories	1	0	20050	1720	0.04	1.34	--	--	--	--	1.6	
Body back touch with all accessories	1	0	20600	844	0.17	0.943	--	--	--	--	1.6	
Body back touch with all accessories	1	0	21100	2535	0.08	1.14	--	--	--	--	1.6	
Body back touch with all accessories	1	0	38000	2595	0.18	0.919	--	--	--	--	1.6	
Body back touch with all accessories	1	0	39750	2506	0.15	1.19	--	--	--	--	1.6	

The second repeated SAR judge reference									
Product: GM-168									
Band	**Position**	**Mode**		**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
		UL RB Allocation	**UL RB START**						
LTE Band 2	Body back touch with all accessories	1	0	19100	1900	1.27	1.22	1.041	＜1.2
LTE Band 4	Body back touch with all accessories	1	0	20050	1720	1.39	1.34	1.037	＜1.2
LTE Band 5	Body back touch with all accessories	1	0	20600	844	0.907	0.943	1.040	＜1.2
LTE Band 7	Body back touch with all accessories	1	0	21100	2535	1.19	1.14	1.044	＜1.2
LTE Band 38	Body back touch with all accessories	1	0	38000	2595	1.01	0.919	1.099	＜1.2
LTE Band 41	Body back touch with all accessories	1	0	39750	2506	1.17	1.19	1.017	＜1.2

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APPENDIX A. SAR SYSTEM CHECK DATA

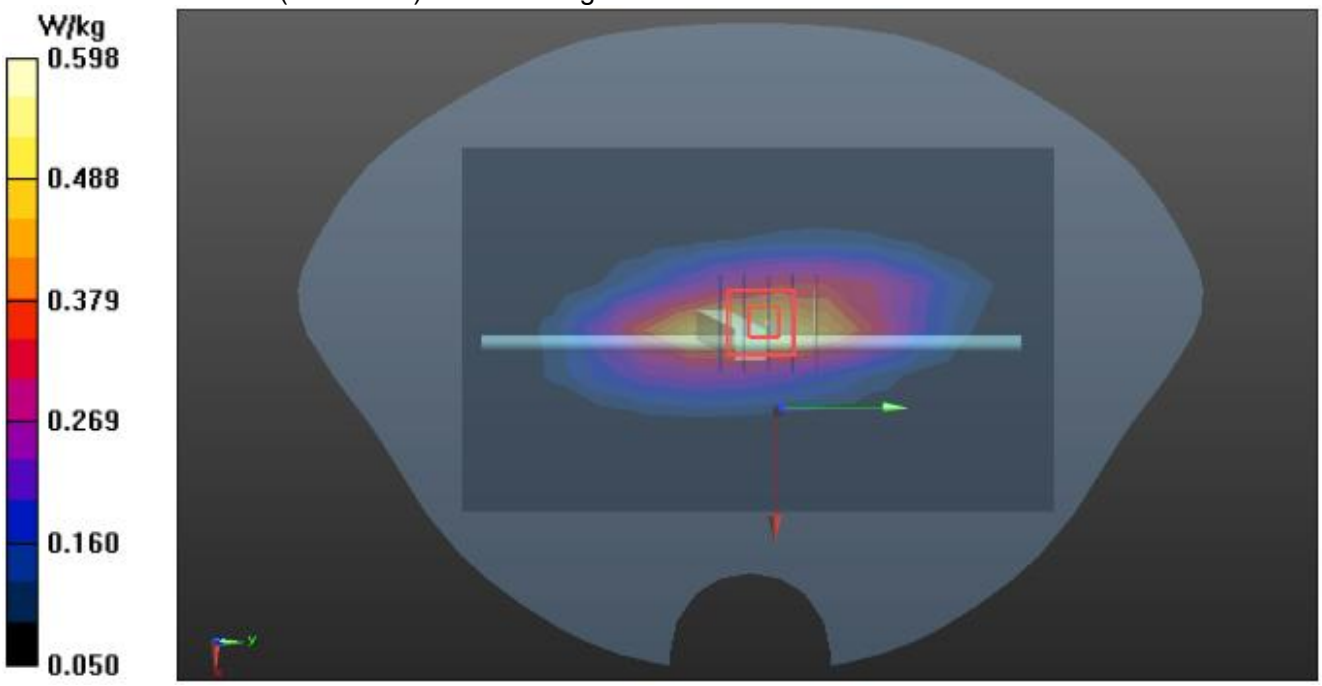
Test Laboratory: AGC Lab **Date: Jun. 07, 2025**
System Check Head 750MHz
DUT: Dipole 750 MHz Type: SID 750

Communication System: CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1;
Frequency: 750 MHz; Medium parameters used: f = 750MHz; σ=0.91 mho/m; εr =41.59; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.38, 10.38, 10.38); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Check Head 750 MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.560 W/kg

System Check Head 750 MHz/1/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.35 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.798 W/kg
SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.359 W/kg
Smallest distance from peaks to all points 3 dB below = 14.4 mm
Ratio of SAR at M2 to SAR at M1 = 62.6%
Maximum value of SAR (measured) = 0.598 W/kg



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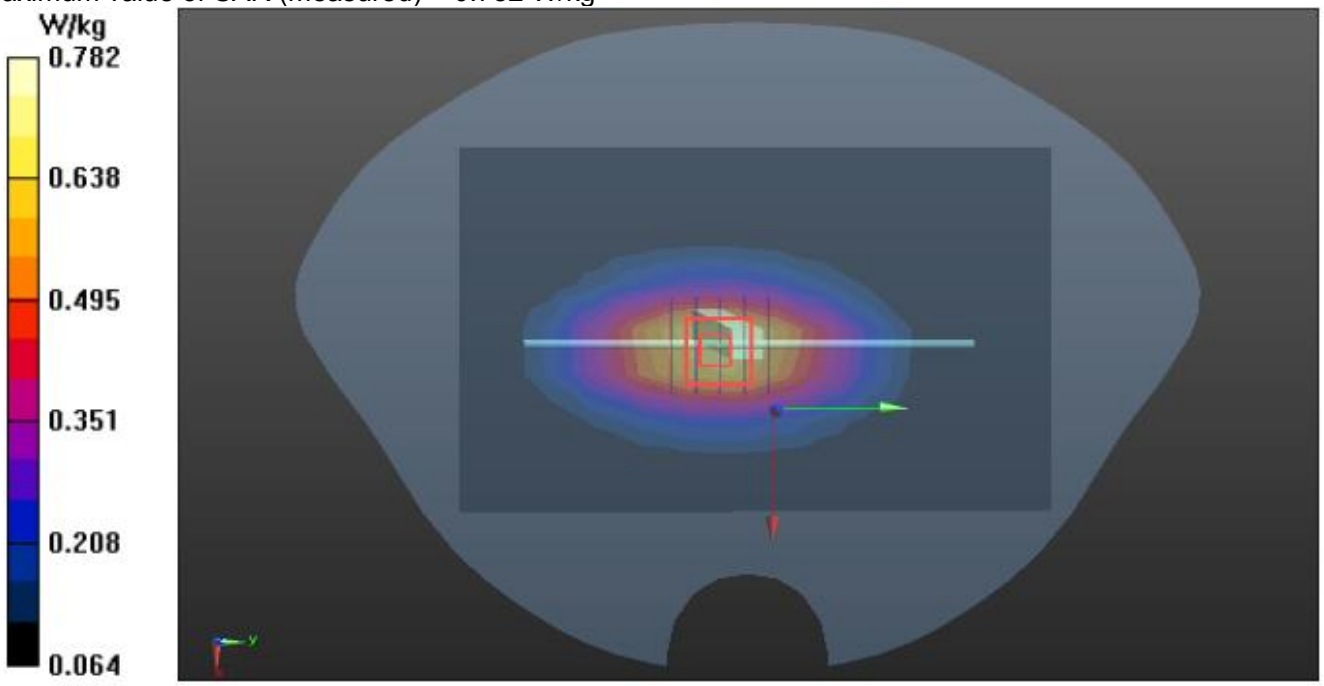
Test Laboratory: AGC Lab **Date: Jun. 08, 2025**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.92 mho/m; εr =40.48; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(9.95, 9.95, 9.95); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Check Head 835MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.693 W/kg
System Check Head 835MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.99 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.02 W/kg
SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.428 W/kg
Smallest distance from peaks to all points 3 dB below = 17.6 mm
Ratio of SAR at M2 to SAR at M1 = 66.2%
Maximum value of SAR (measured) = 0.782 W/kg



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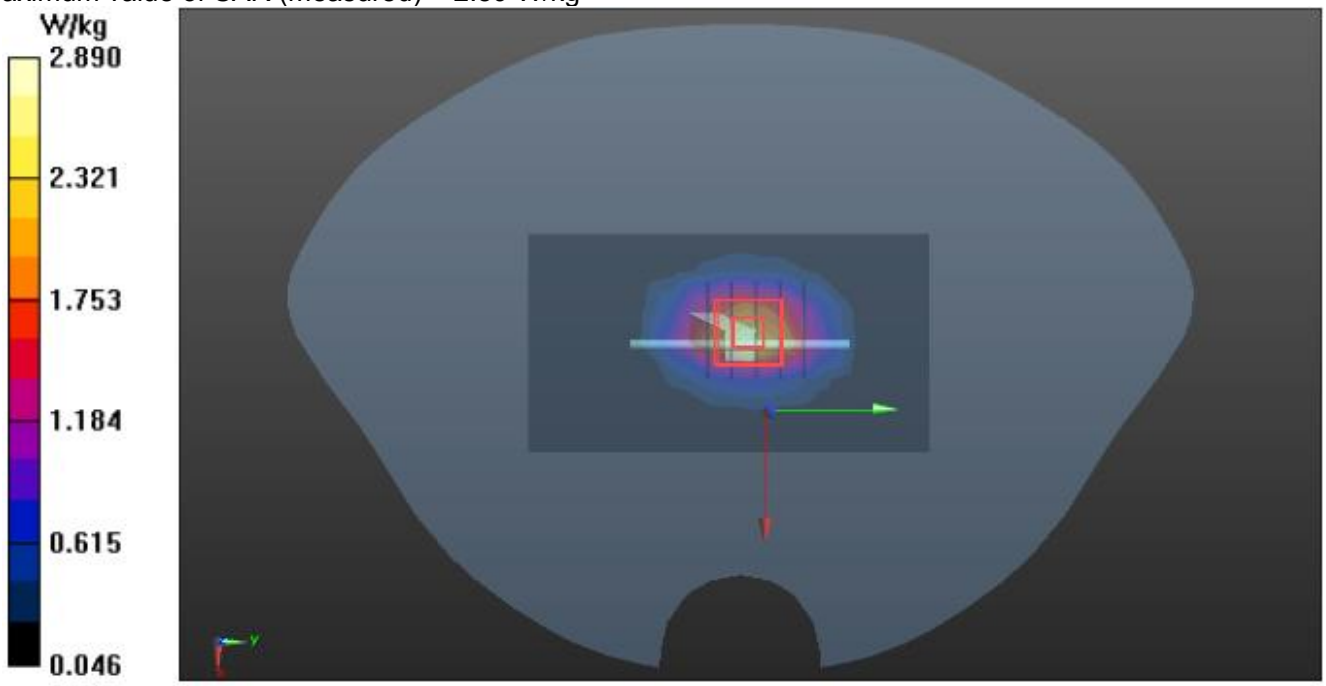
Test Laboratory: AGC Lab **Date: Jun. 03, 2025**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle: 1:1;
Frequency: 1750 MHz; Medium parameters used: f = 1750 MHz; σ=1.38 mho/m; εr =39.65; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.61, 8.61, 8.61); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Check Head 1750 MHz/Area Scan (7x12x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 2.65 W/kg
System Check Head 1750 MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 42.25 V/m; Power Drift = 0.44 dB
Peak SAR (extrapolated) = 4.18 W/kg
SAR(1 g) = 2.29 W/kg; SAR(10 g) = 1.19 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 54.9%
Maximum value of SAR (measured) = 2.89 W/kg



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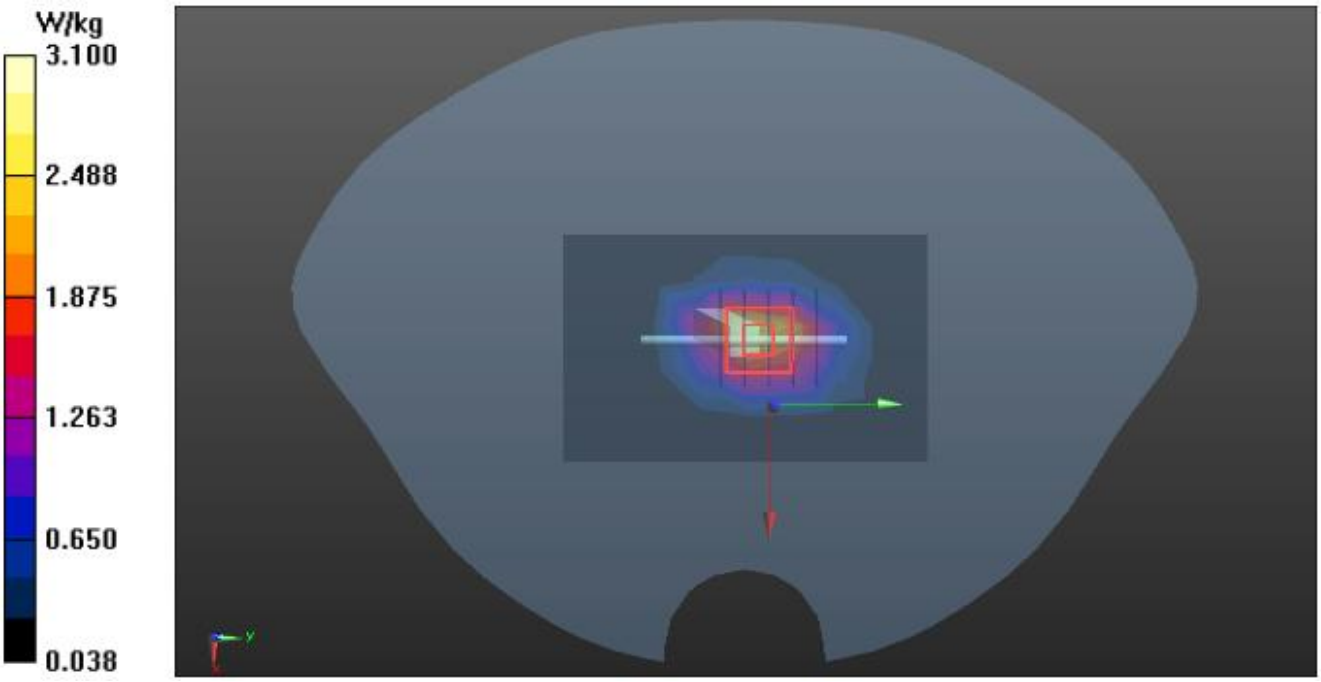
Test Laboratory: AGC Lab **Date: Jun. 04, 2025**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.37 mho/m; εr =39.82;; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.31, 8.31, 8.31); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Check Head 1900 MHz/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.66 W/kg
System Check Head 1900 MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 46.29 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 4.52 W/kg
SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.25 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 53.9%
Maximum value of SAR (measured) = 3.10 W/kg



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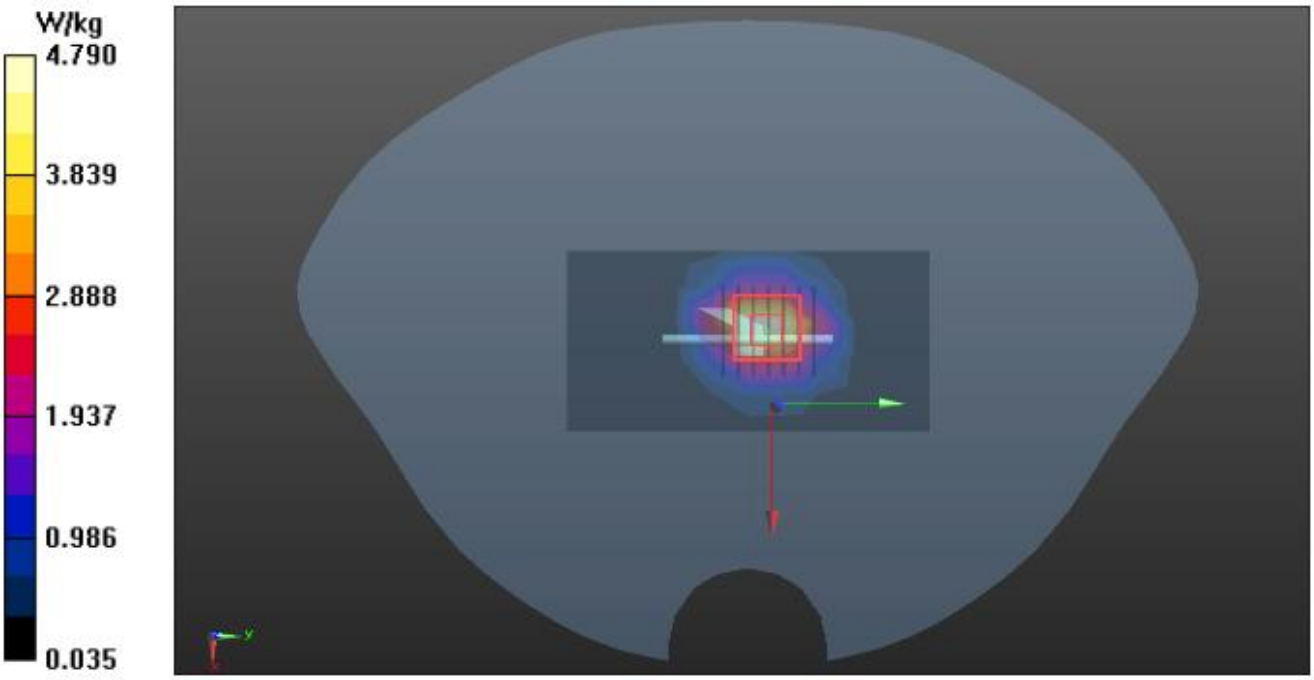
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
System Check Head 2600 MHz
DUT: Dipole 2600 MHz; Type: SID 2600

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1;
Frequency: 2600 MHz; Medium parameters used: f = 2600 MHz; σ=1.91 mho/m; εr =38.27; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Check Head 2600 MHz/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.93 W/kg
System Check Head 2600 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 44.64 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 7.98 W/kg
SAR(1 g) = 3.59 W/kg; SAR(10 g) = 1.67 W/kg
Smallest distance from peaks to all points 3 dB below = 11 mm
Ratio of SAR at M2 to SAR at M1 = 45.2%
Maximum value of SAR (measured) = 4.79 W/kg



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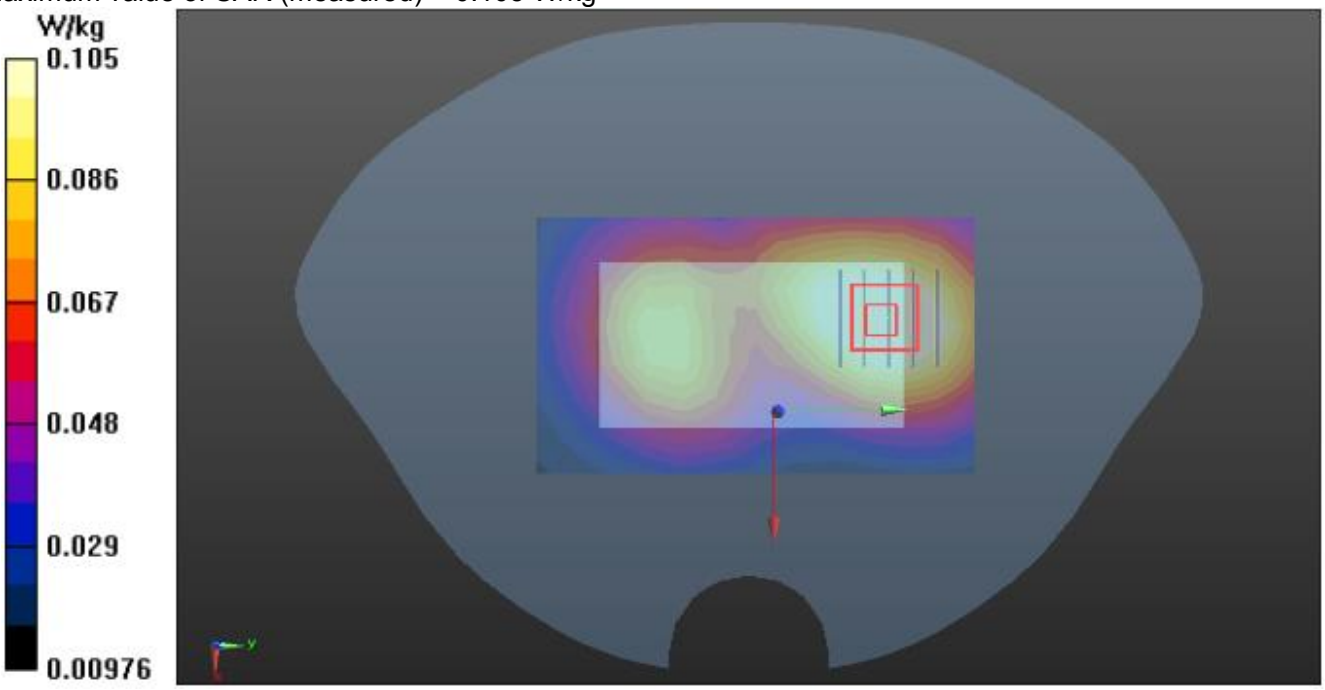
APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab **Date: Jun. 04, 2025**
LTE Band 2 Mid- Face Up (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.35 mho/m; εr =39.99; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.31, 8.31, 8.31); Calibrated: 2024-09-05;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/FRONT-25MM/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.121 W/kg
HOLD TO FACE /FRONT-25MM/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.201 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.145 W/kg
SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.067 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)
Ratio of SAR at M2 to SAR at M1 = 67.1%
Maximum value of SAR (measured) = 0.105 W/kg



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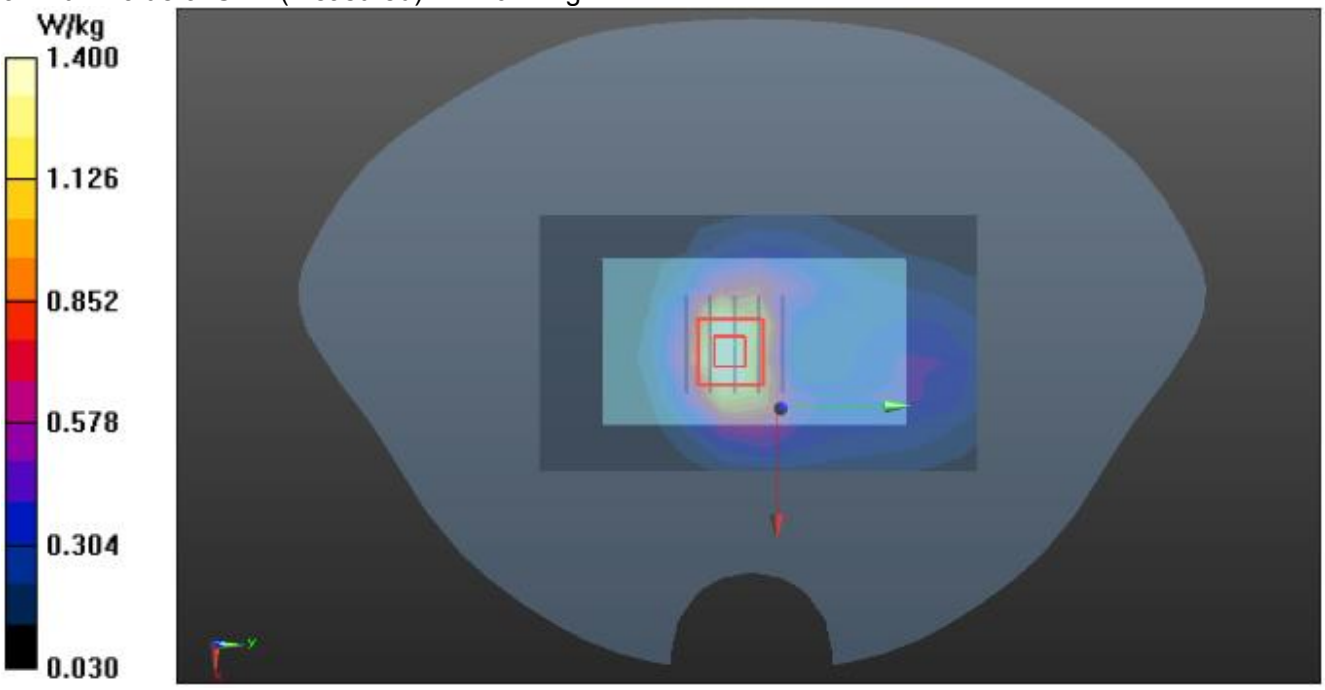
Test Laboratory: AGC Lab **Date: Jun. 04, 2025**
LTE Band 2 High-Body back with all accessories (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ= 1.37 mho/m; εr =39.82; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.31, 8.31, 8.31); Calibrated: 2024-09-05;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP HIGH/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.67 W/kg
BODY/BACK+CLIP HIGH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.13 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.30 W/kg
SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.674 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 55.8%
Maximum value of SAR (measured) = 1.40 W/kg



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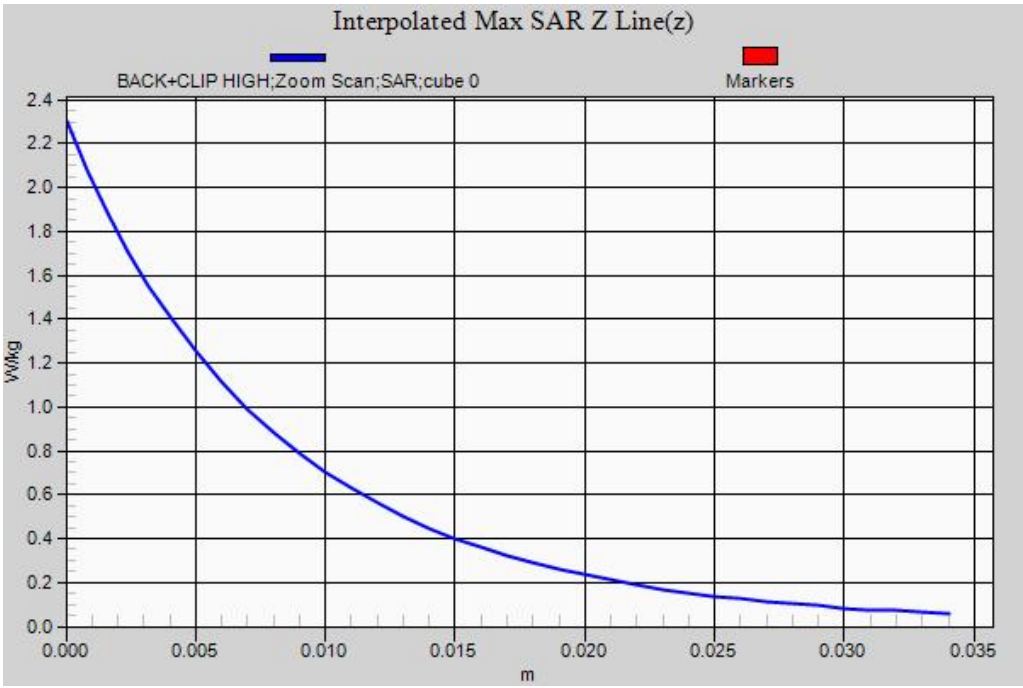

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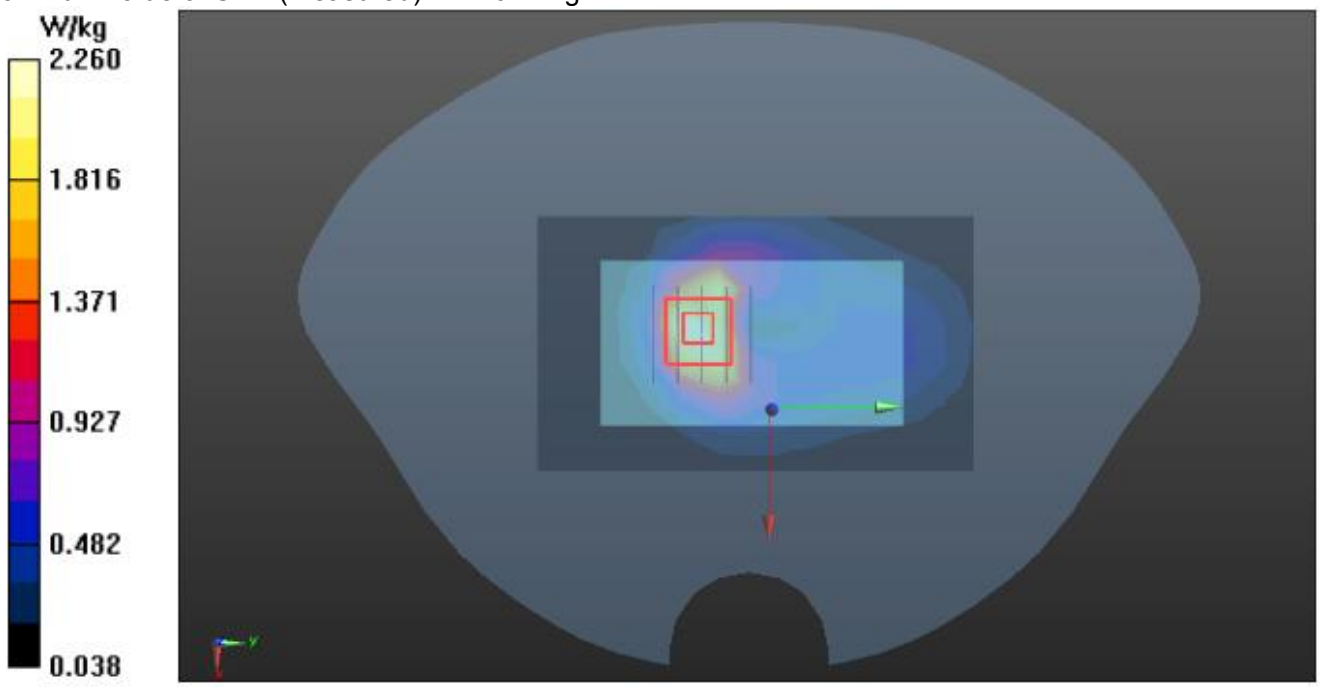
Test Laboratory: AGC Lab **Date: Jun. 04, 2025**
LTE Band 2 Mid-Hand- Back (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.35 mho/m; εr =39.99; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.31, 8.31, 8.31); Calibrated: 2024-09-05;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HAND/BACK/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 2.35 W/kg
HAND/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.15 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 4.01 W/kg
SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 52.6%
Maximum value of SAR (measured) = 2.26 W/kg



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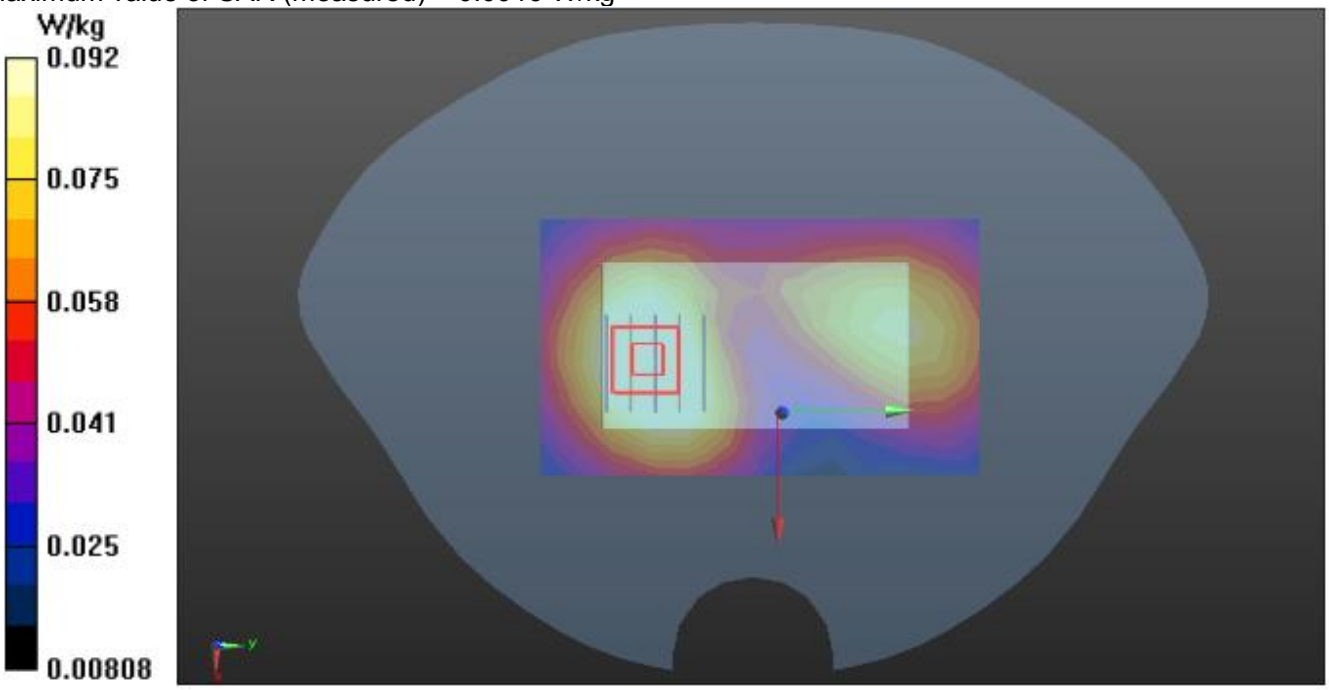
Test Laboratory: AGC Lab **Date: Jun. 03, 2025**
LTE Band 4 Mid- Face Up (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;
Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ= 1.35 mho/m; εr =40.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.61, 8.61, 8.61); Calibrated: 2024-09-05;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/FRONT-25MM/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.114 W/kg
HOLD TO FACE /FRONT-25MM/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.746 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.133 W/kg
SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.055 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)
Ratio of SAR at M2 to SAR at M1 = 63.6%
Maximum value of SAR (measured) = 0.0916 W/kg



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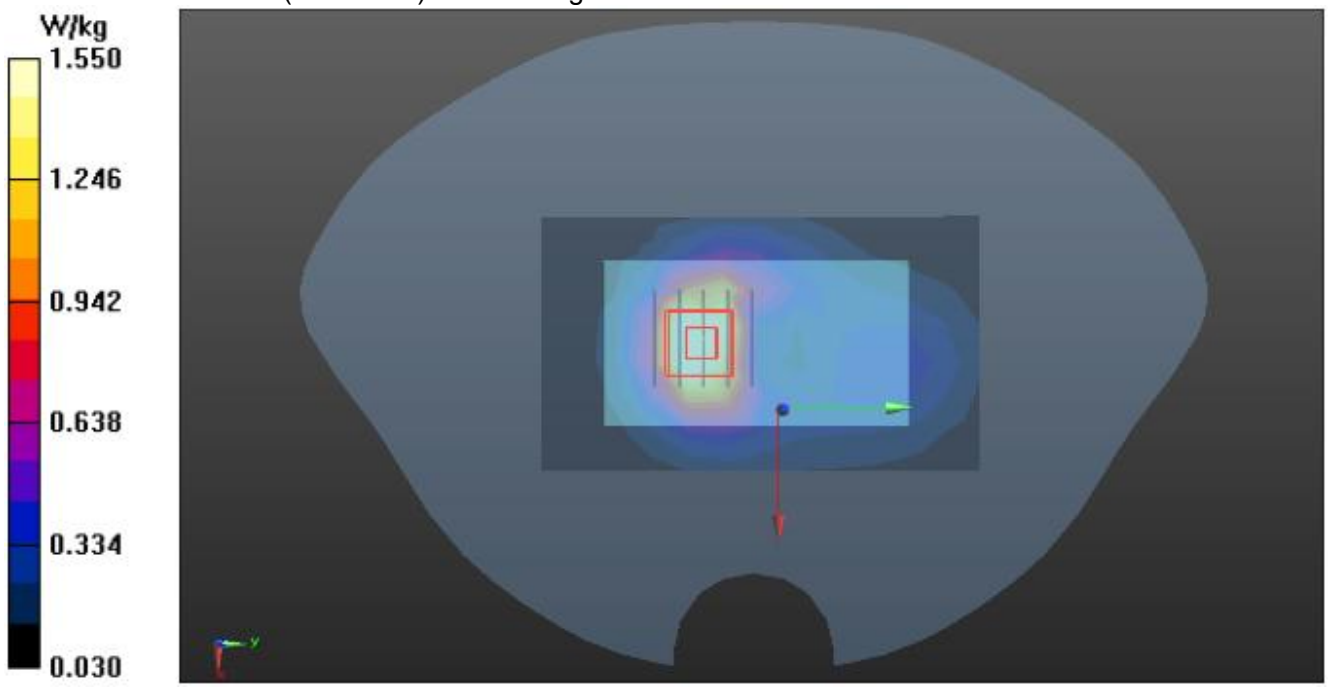
Test Laboratory: AGC Lab **Date: Jun. 03, 2025**
LTE Band 4 Low- Body back with all accessories (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;
Frequency:1720 MHz; Medium parameters used: f = 1750 MHz; σ= 1.33 mho/m; εr =41.39; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.61, 8.61, 8.61); Calibrated: 2024-09-05;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP LOW/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.81 W/kg
BODY/BACK+CLIP LOW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.17 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.56 W/kg
SAR(1 g) = 1.39 W/kg; SAR(10 g) = 0.734 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 55%
Maximum value of SAR (measured) = 1.55 W/kg



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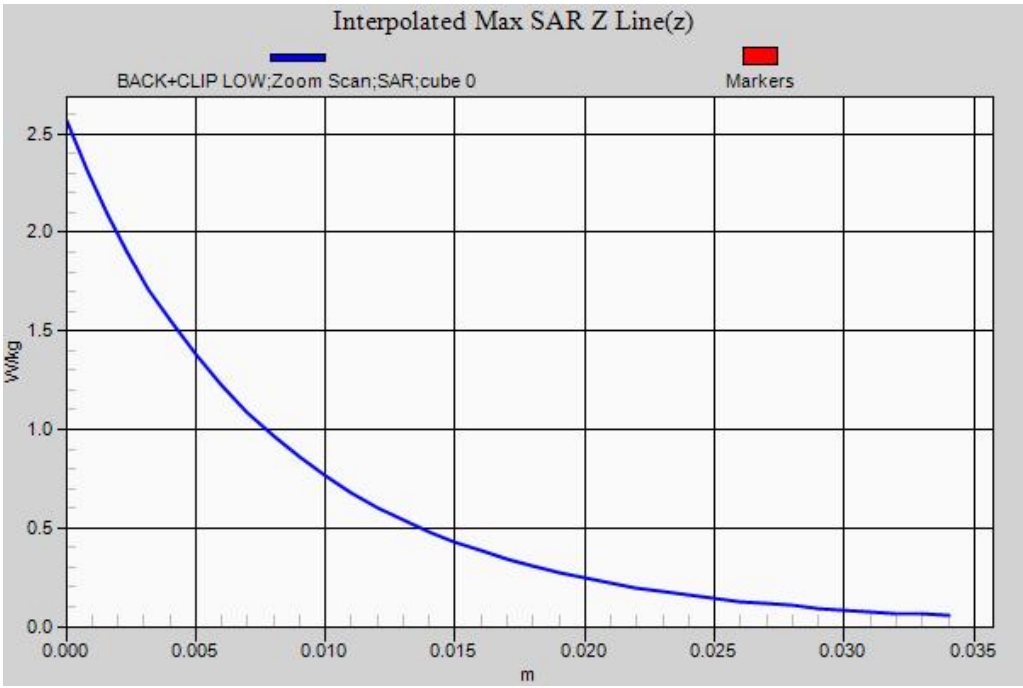

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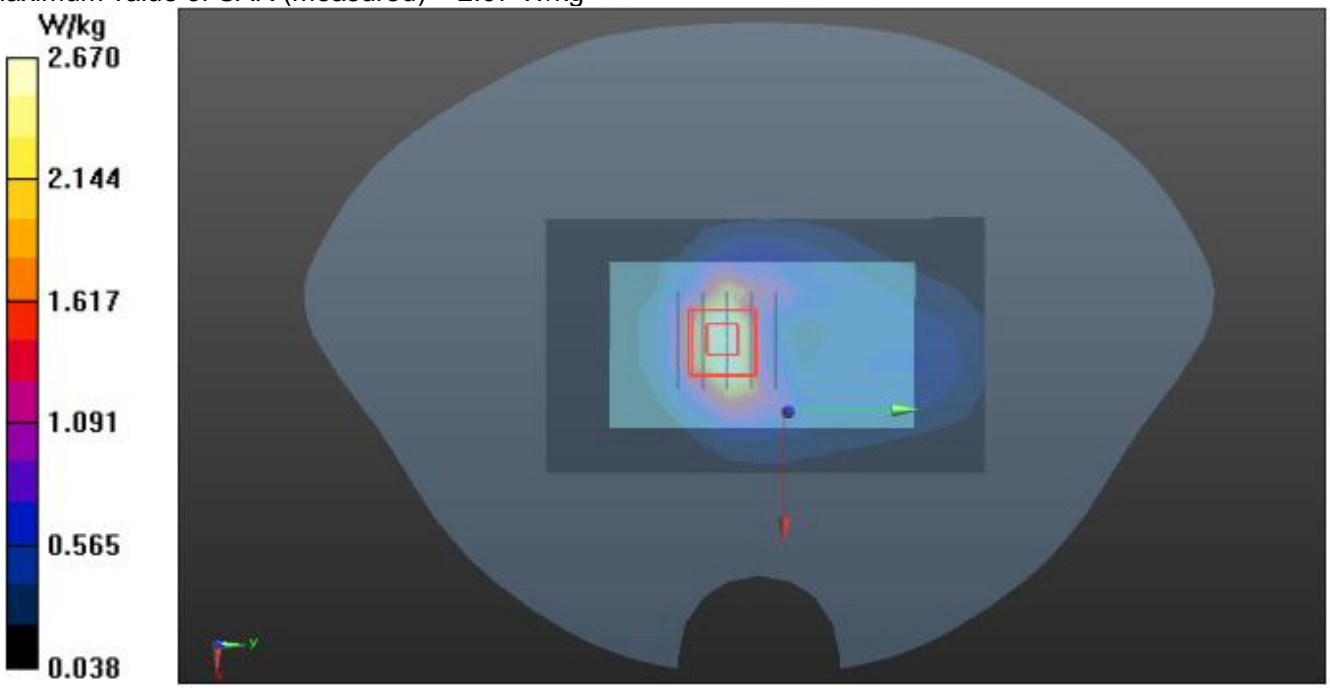
Test Laboratory: AGC Lab **Date: Jun. 03, 2025**
LTE Band 4 Mid-Hand-Back (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;
Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ= 1.35 mho/m; εr =40.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.61, 8.61, 8.61); Calibrated: 2024-09-05;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HAND/BACK/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.35 W/kg
HAND /BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.32 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 4.76 W/kg
SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.17 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 51.5%
Maximum value of SAR (measured) = 2.67 W/kg



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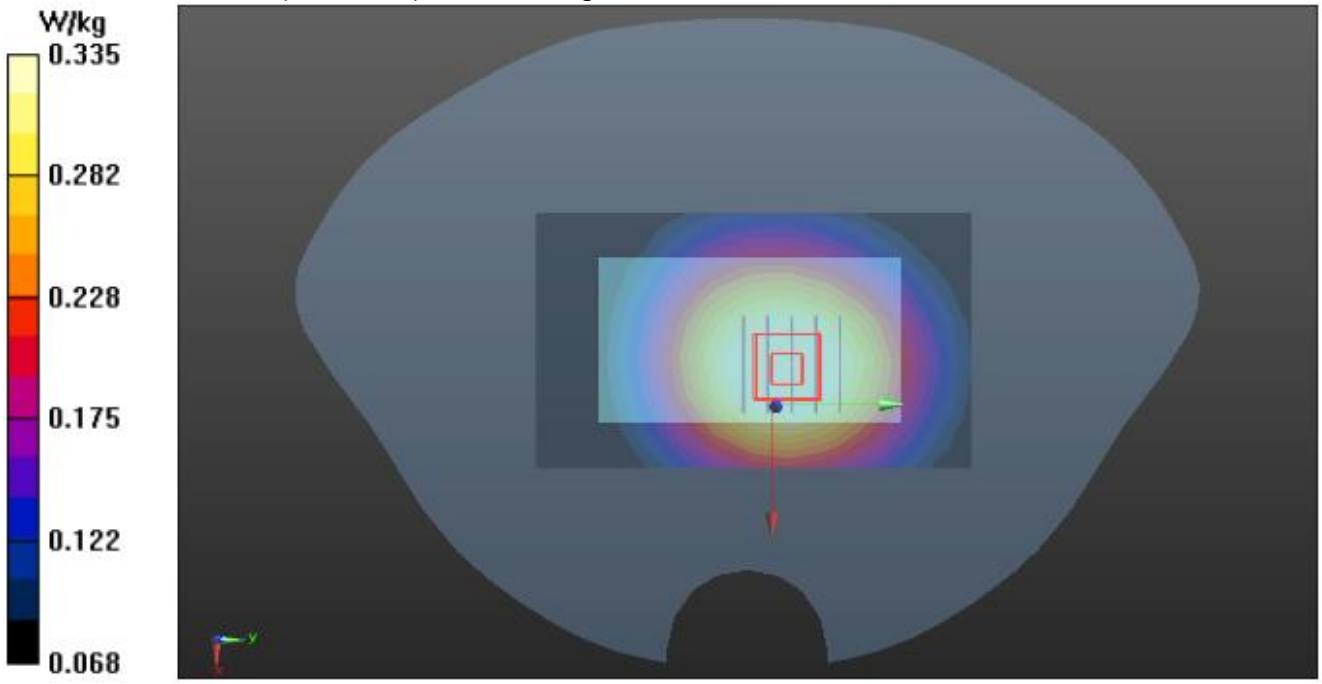
Test Laboratory: AGC Lab **Date: Jun. 08, 2025**
LTE Band 5 Mid- Face Up (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93mho/m; εr =39.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(9.95, 9.95, 9.95); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/FRONT-25MM/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.374 W/kg
HOLD TO FACE /FRONT-25MM/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.56 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.401 W/kg
SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.246 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)
Ratio of SAR at M2 to SAR at M1 = 79%
Maximum value of SAR (measured) = 0.335 W/kg



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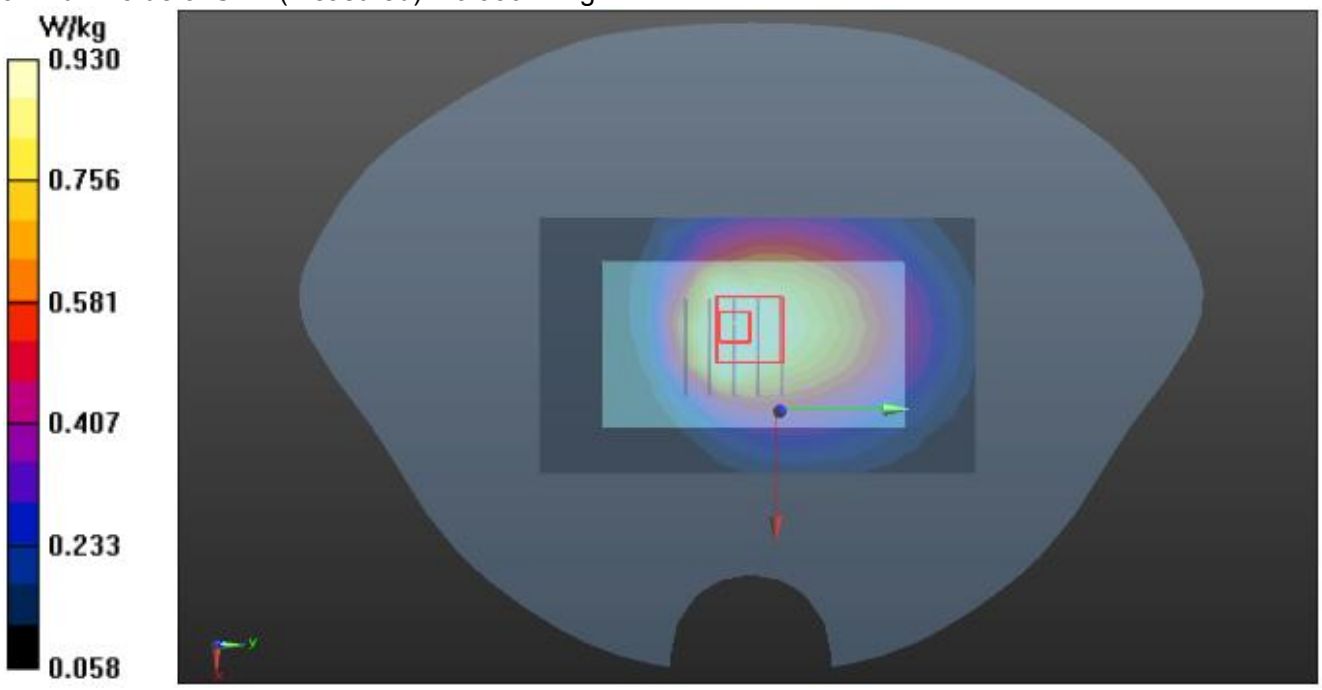
Test Laboratory: AGC Lab **Date: Jun. 08, 2025**
LTE Band 5 Mid- Body back with all accessories (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93mho/m; εr =39.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(9.95, 9.95, 9.95); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.05 W/kg
BODY/BACK+CLIP/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.23 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 1.33 W/kg
SAR(1 g) = 0.881 W/kg; SAR(10 g) = 0.619 W/kg
Smallest distance from peaks to all points 3 dB below = 20 mm
Ratio of SAR at M2 to SAR at M1 = 70.1%
Maximum value of SAR (measured) = 0.930 W/kg



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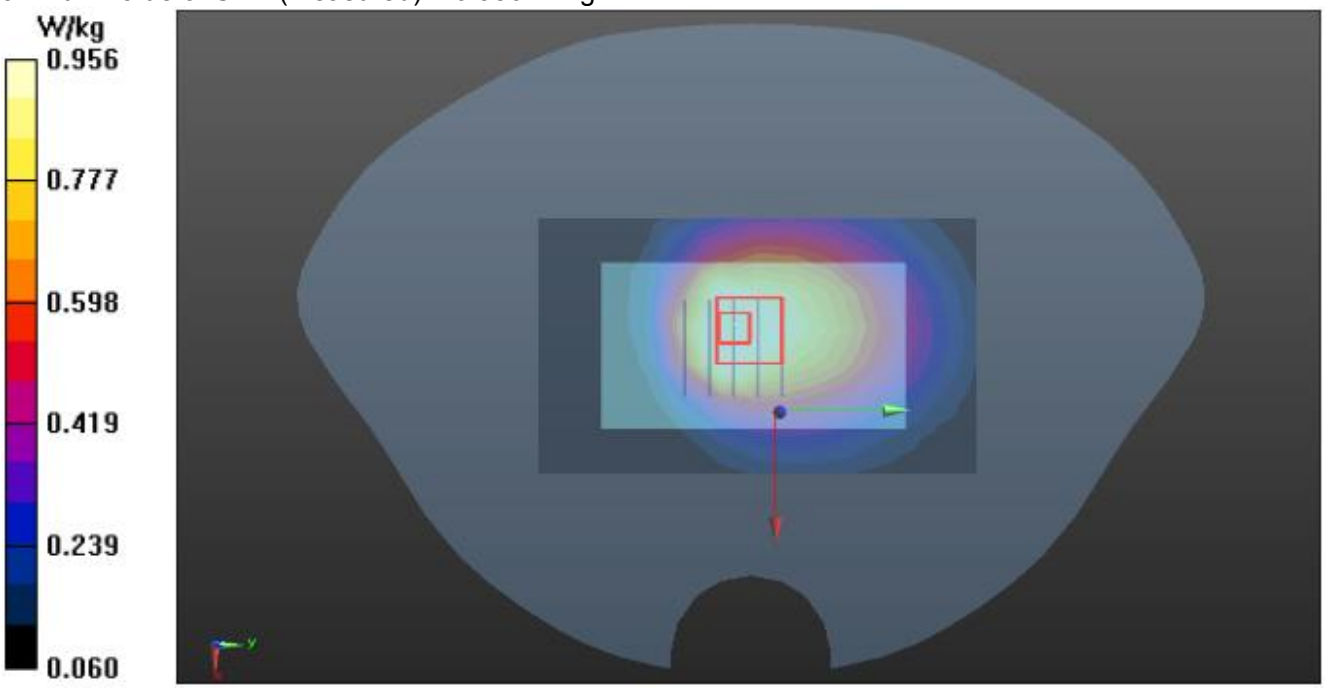
Test Laboratory: AGC Lab **Date: Jun. 08, 2025**
LTE Band 5 High- Body back with all accessories (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency: 844 MHz; Medium parameters used: f = 835 MHz; σ=0.93mho/m; εr =39.51; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(9.95, 9.95, 9.95); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP HIGH/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.09 W/kg
BODY/BACK+CLIP HIGH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.82 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.636 W/kg
Smallest distance from peaks to all points 3 dB below = 20 mm
Ratio of SAR at M2 to SAR at M1 = 70.1%
Maximum value of SAR (measured) = 0.956 W/kg



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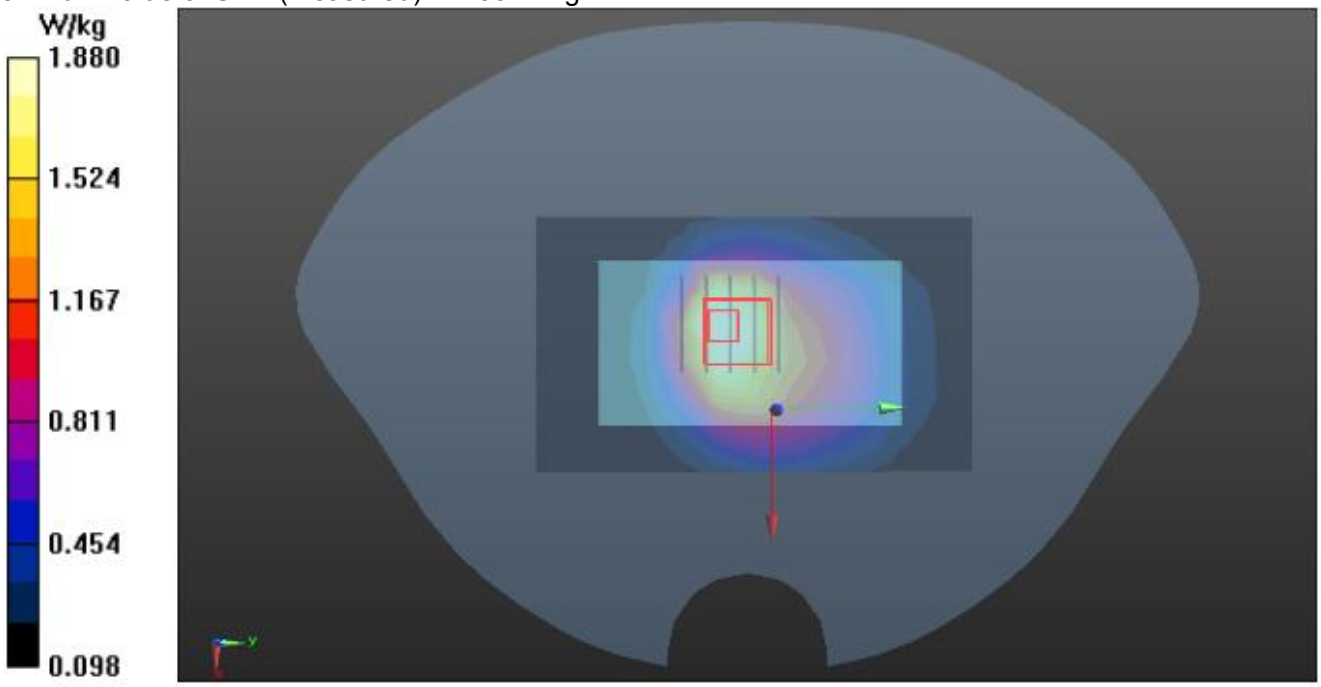
Test Laboratory: AGC Lab **Date: Jun. 08, 2025**
LTE Band 5 Mid- Hand - Front (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93mho/m; εr =39.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(9.95, 9.95, 9.95); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HAND/FRONT/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 2.50 W/kg
HAND /FRONT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 44.16 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.33 W/kg
SAR(1 g) = 1.75 W/kg; SAR(10 g) = 1.07 W/kg
Smallest distance from peaks to all points 3 dB below = 14.3 mm
Ratio of SAR at M2 to SAR at M1 = 59.9%
Maximum value of SAR (measured) = 1.88 W/kg



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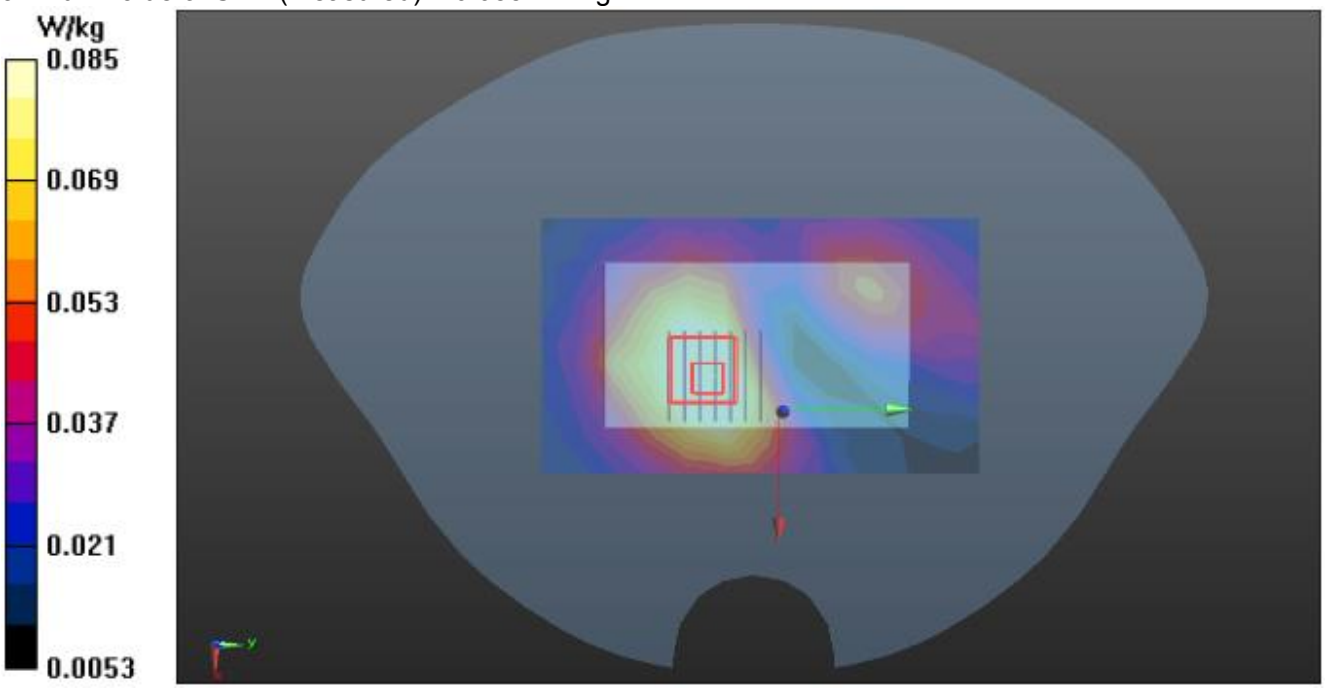
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 7 Mid- Face Up (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.87 mho/m; εr =40.01; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/FRONT-25MM/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0958 W/kg
HOLD TO FACE/FRONT-25MM/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.708 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.130 W/kg
SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.041 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)
Ratio of SAR at M2 to SAR at M1 = 53.4%
Maximum value of SAR (measured) = 0.0854 W/kg



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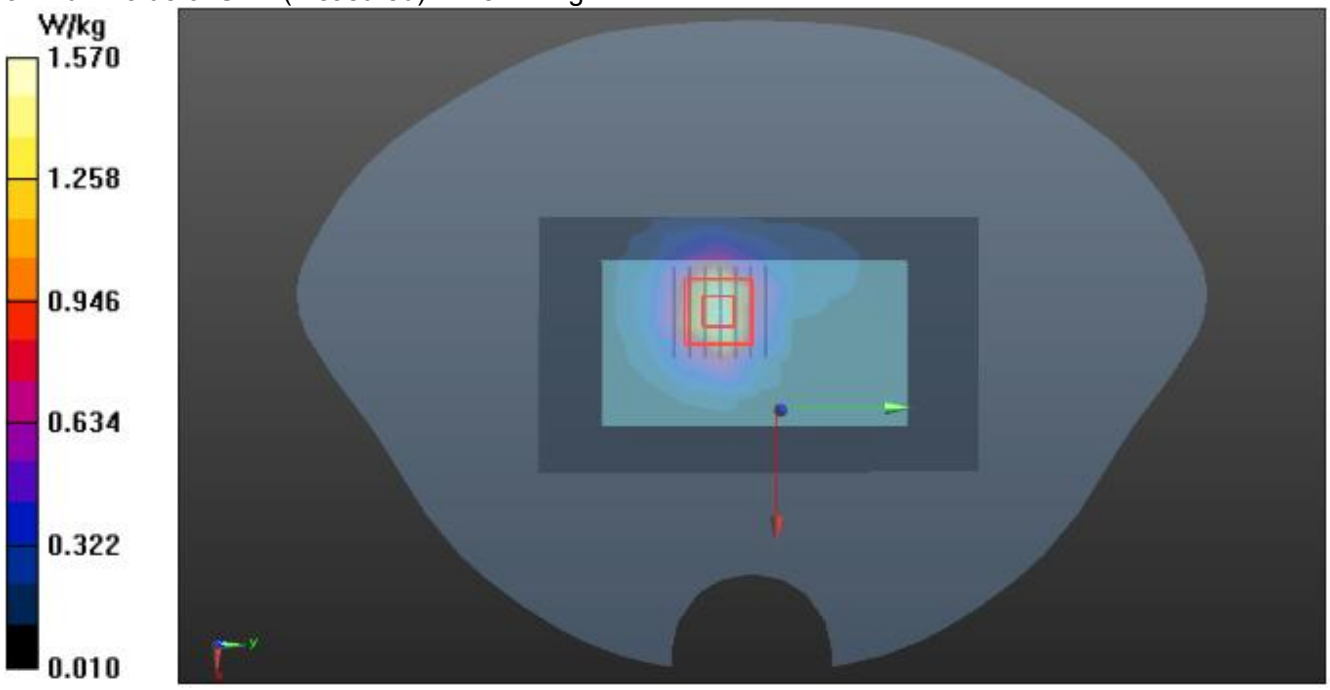
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 7 Mid- Body back with all accessories (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.87 mho/m; εr =40.01; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.65 W/kg
BODY/BACK+CLIP/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.01 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.60 W/kg
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.552 W/kg
Smallest distance from peaks to all points 3 dB below = 12 mm
Ratio of SAR at M2 to SAR at M1 = 45.2%
Maximum value of SAR (measured) = 1.57 W/kg



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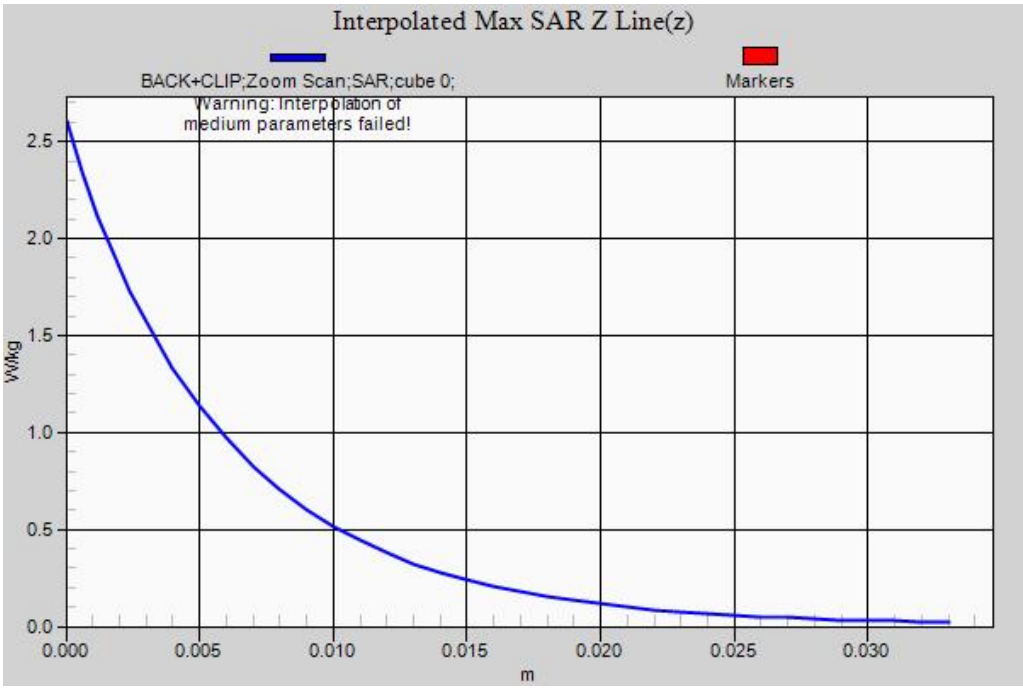

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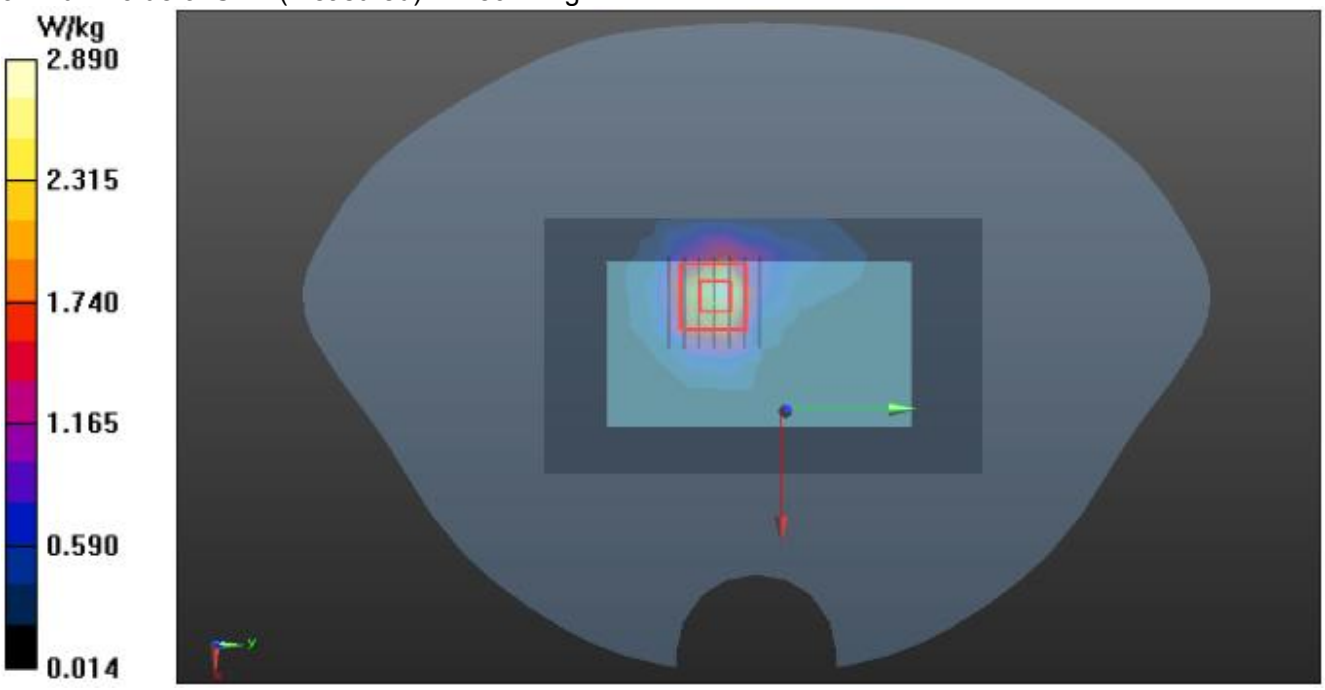
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 7 Mid- Hand- Back(1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.87 mho/m; εr =40.01; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HAND/BACK/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.04 W/kg
HAND/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.70 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 5.05 W/kg
SAR(1 g) = 2.17 W/kg; SAR(10 g) = 0.951 W/kg
Smallest distance from peaks to all points 3 dB below = 9.8 mm
Ratio of SAR at M2 to SAR at M1 = 42.6%
Maximum value of SAR (measured) = 2.89 W/kg



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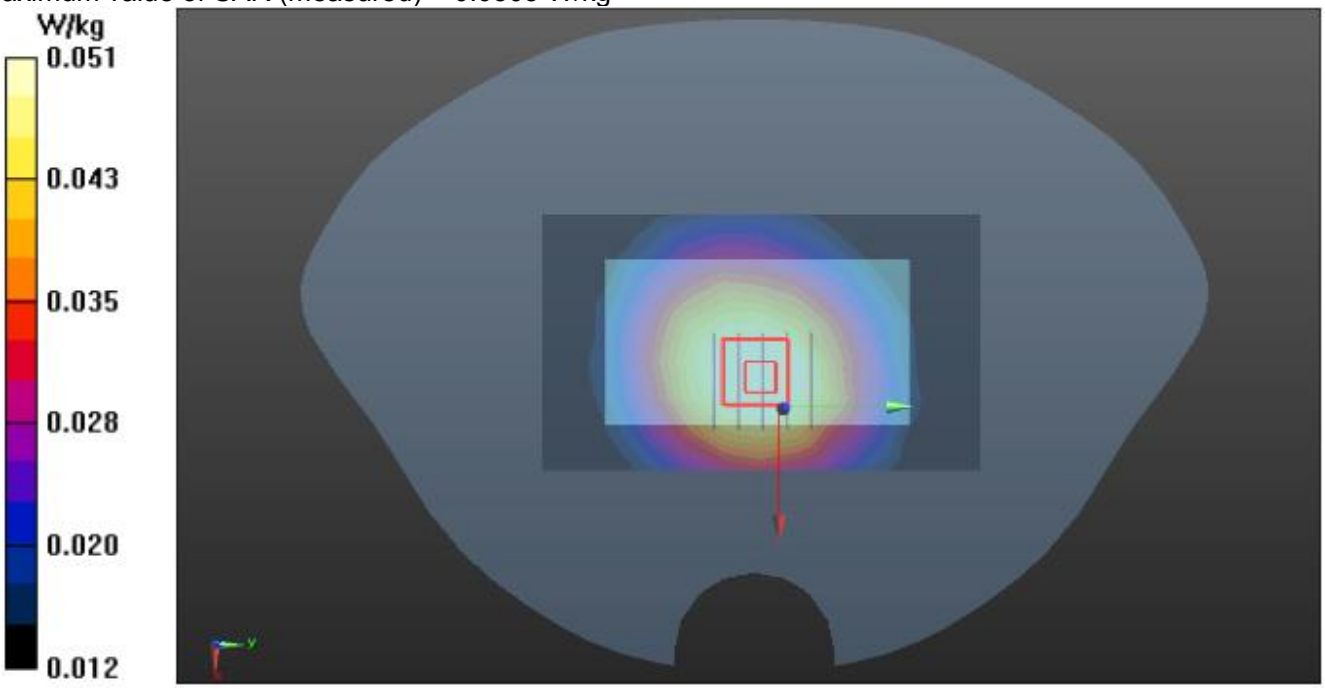
Test Laboratory: AGC Lab **Date: Jun. 07, 2025**
LTE Band 12 Mid- Face Up (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.89 mho/m; εr =42.03; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.38, 10.38, 10.38); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/FRONT-25MM/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0530 W/kg
HOLD TO FACE/FRONT-25MM/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.351 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.0590 W/kg
SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.039 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 16 mm)
Ratio of SAR at M2 to SAR at M1 = 82.1%
Maximum value of SAR (measured) = 0.0505 W/kg



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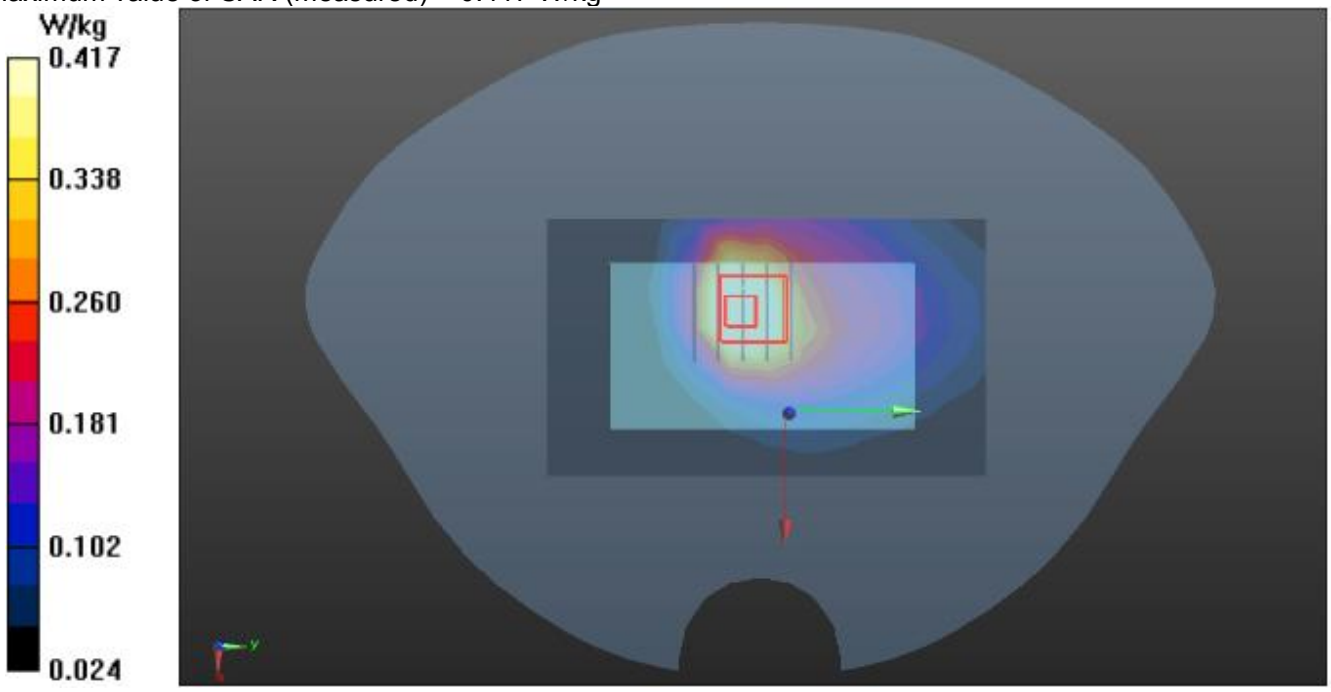
Test Laboratory: AGC Lab **Date: Jun. 07, 2025**
LTE Band 12 Mid- Body back with all accessories (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.89 mho/m; εr =42.03; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.38, 10.38, 10.38); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.537 W/kg
BODY/BACK+CLIP/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.98 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.701 W/kg
SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.248 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) = 0.417 W/kg



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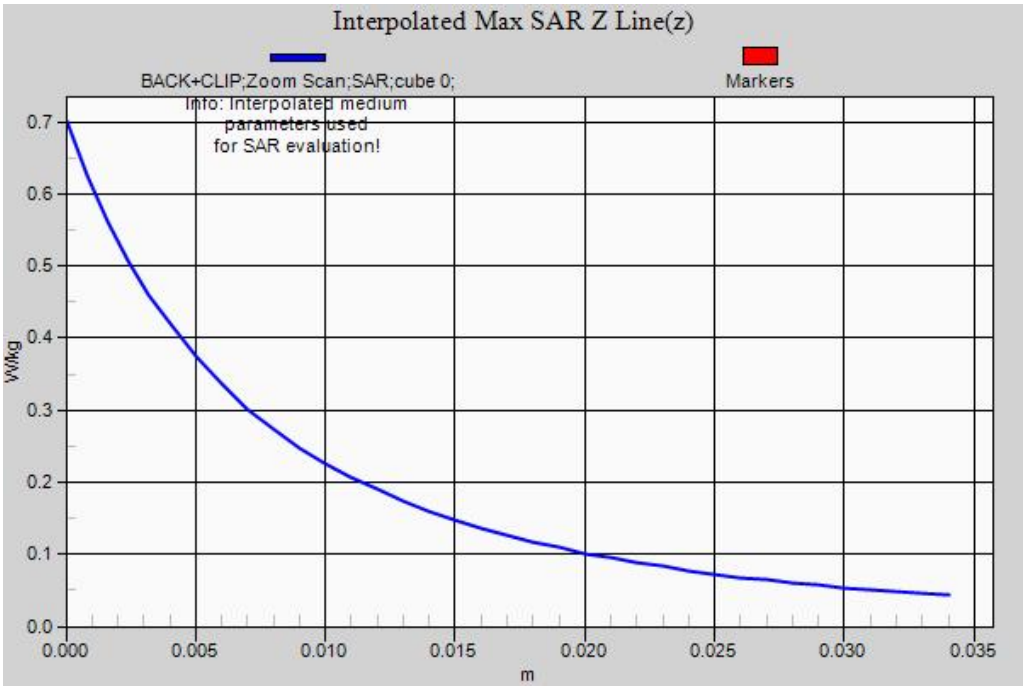

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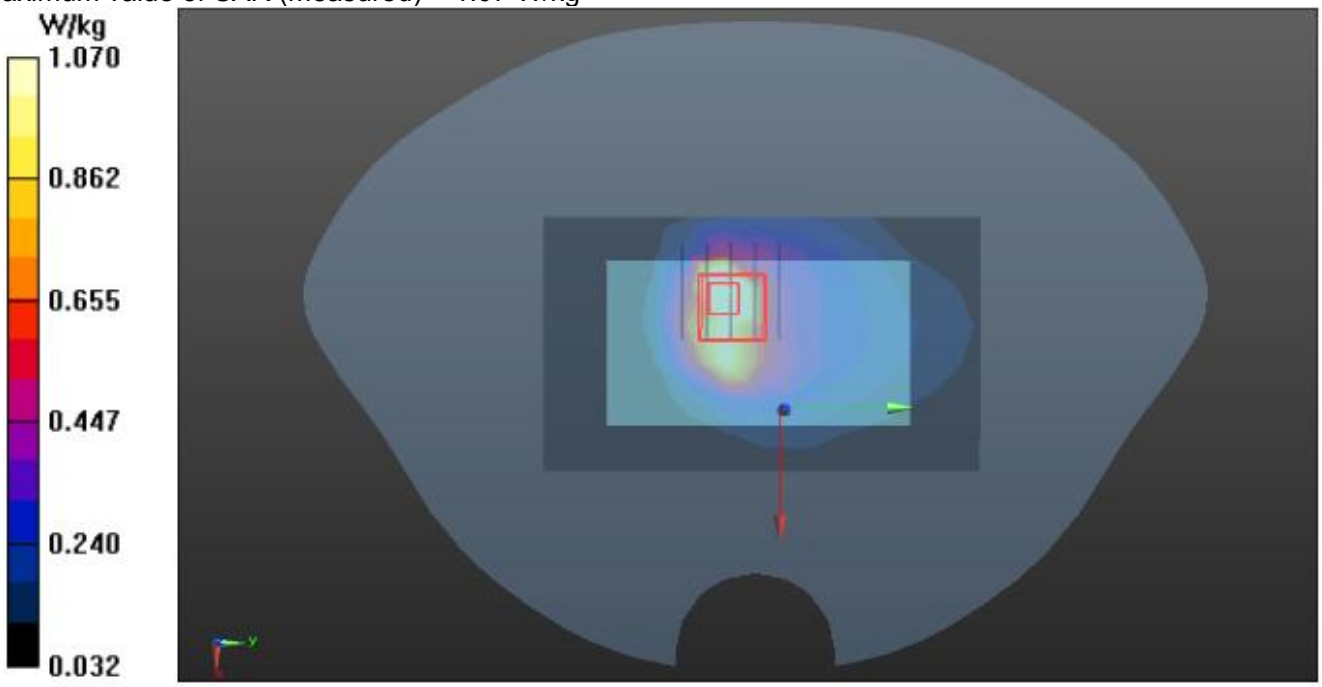
Test Laboratory: AGC Lab **Date: Jun. 07, 2025**
LTE Band 12 Mid- Hand-Back (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.89 mho/m; εr =42.03; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.38, 10.38, 10.38); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HAND/BACK/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.80 W/kg
HAND /BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.99 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.29 W/kg
SAR(1 g) = 0.930 W/kg; SAR(10 g) = 0.481 W/kg
Smallest distance from peaks to all points 3 dB below = 10.7 mm
Ratio of SAR at M2 to SAR at M1 = 45.6%
Maximum value of SAR (measured) = 1.07 W/kg



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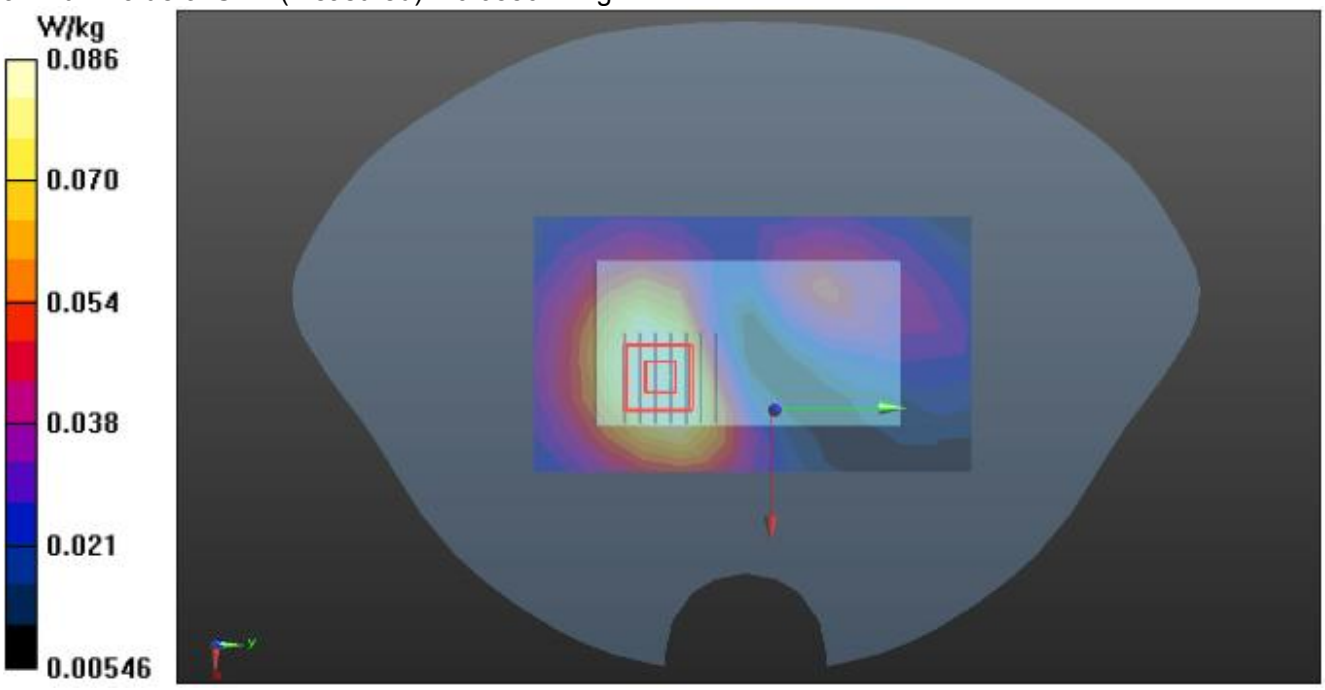
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 38 Mid- Face Up (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58;
Frequency: 2595MHz; Medium parameters used: f =2600 MHz; σ=1.90 mho/m; εr =38.41; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/FRONT-25MM/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0913 W/kg
HOLD TO FACE/FRONT-25MM/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.510 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.134 W/kg
SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.041 W/kg
Smallest distance from peaks to all points 3 dB below: Larger than measurement grid (> 15 mm)
Ratio of SAR at M2 to SAR at M1 = 51.9%
Maximum value of SAR (measured) = 0.0856 W/kg



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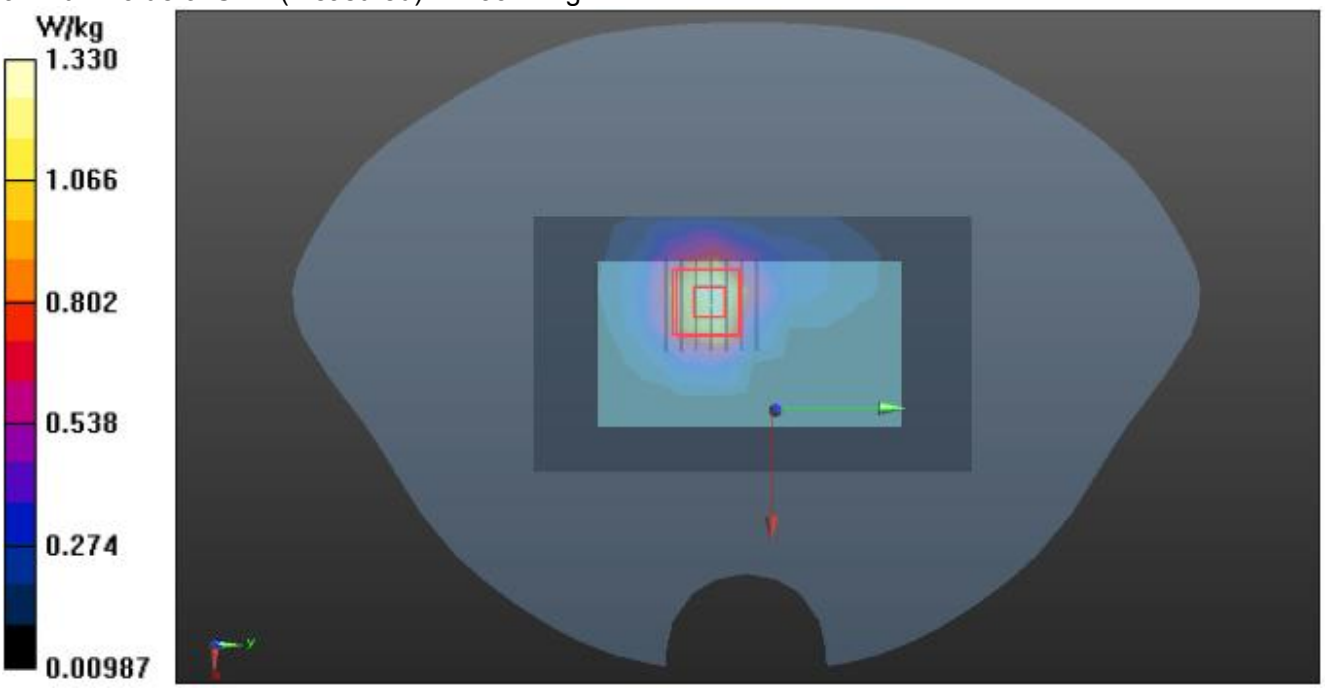
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 38 Mid- Body back with all accessories (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58;
Frequency: 2595MHz; Medium parameters used: f =2600 MHz; σ=1.90 mho/m; εr =38.41; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.46 W/kg
BODY/BACK+CLIP/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.20 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.469 W/kg
Smallest distance from peaks to all points 3 dB below = 11.7 mm
Ratio of SAR at M2 to SAR at M1 = 44.6%
Maximum value of SAR (measured) = 1.33 W/kg



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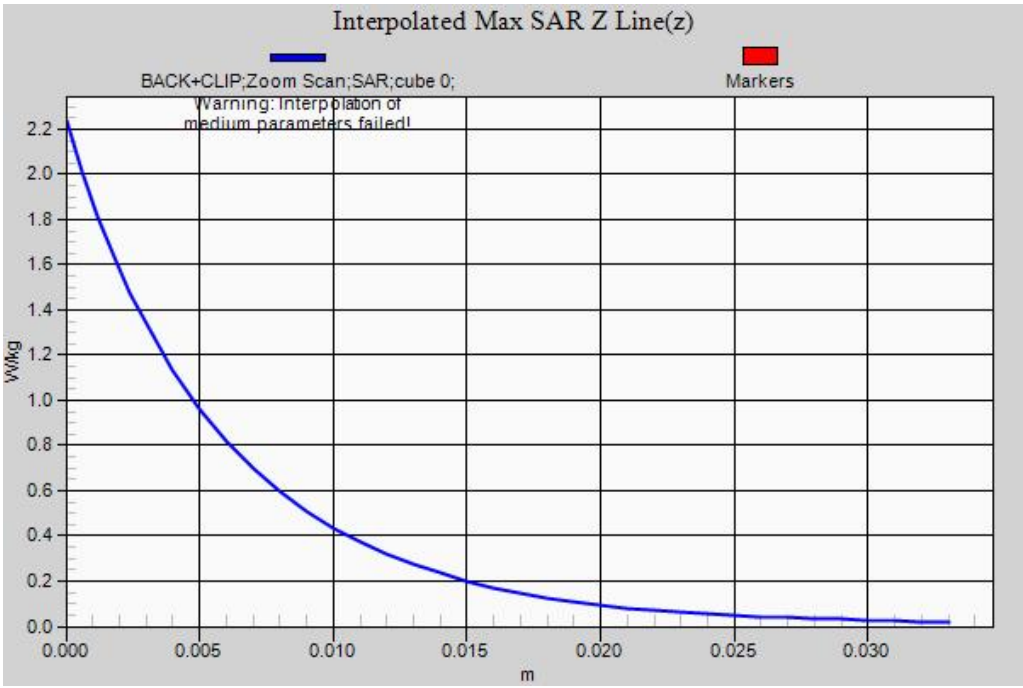

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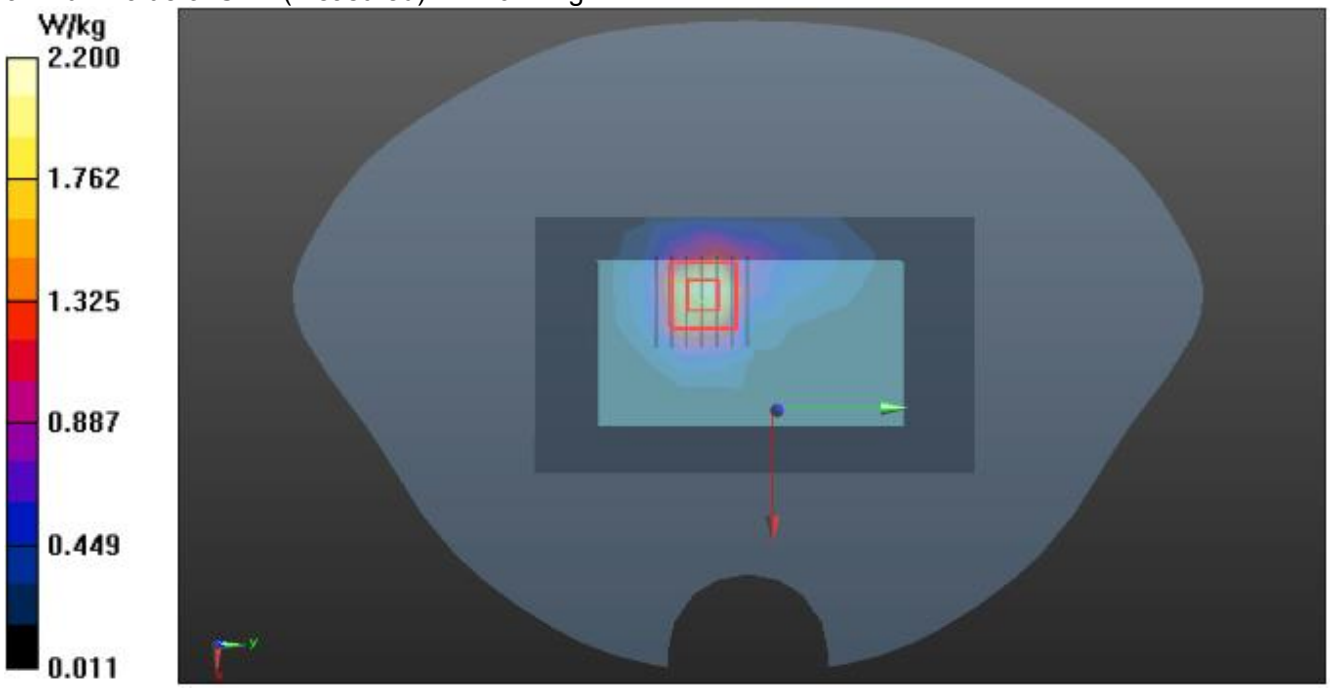
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 38 Mid- Hand- Back (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58;
Frequency: 2595MHz; Medium parameters used: f =2600 MHz; σ=1.90 mho/m; εr =38.41; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 2.23 W/kg
BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.435 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 3.76 W/kg
SAR(1 g) = 1.67 W/kg; SAR(10 g) = 0.744 W/kg
Smallest distance from peaks to all points 3 dB below = 10.8 mm
Ratio of SAR at M2 to SAR at M1 = 43.8%
Maximum value of SAR (measured) = 2.20 W/kg



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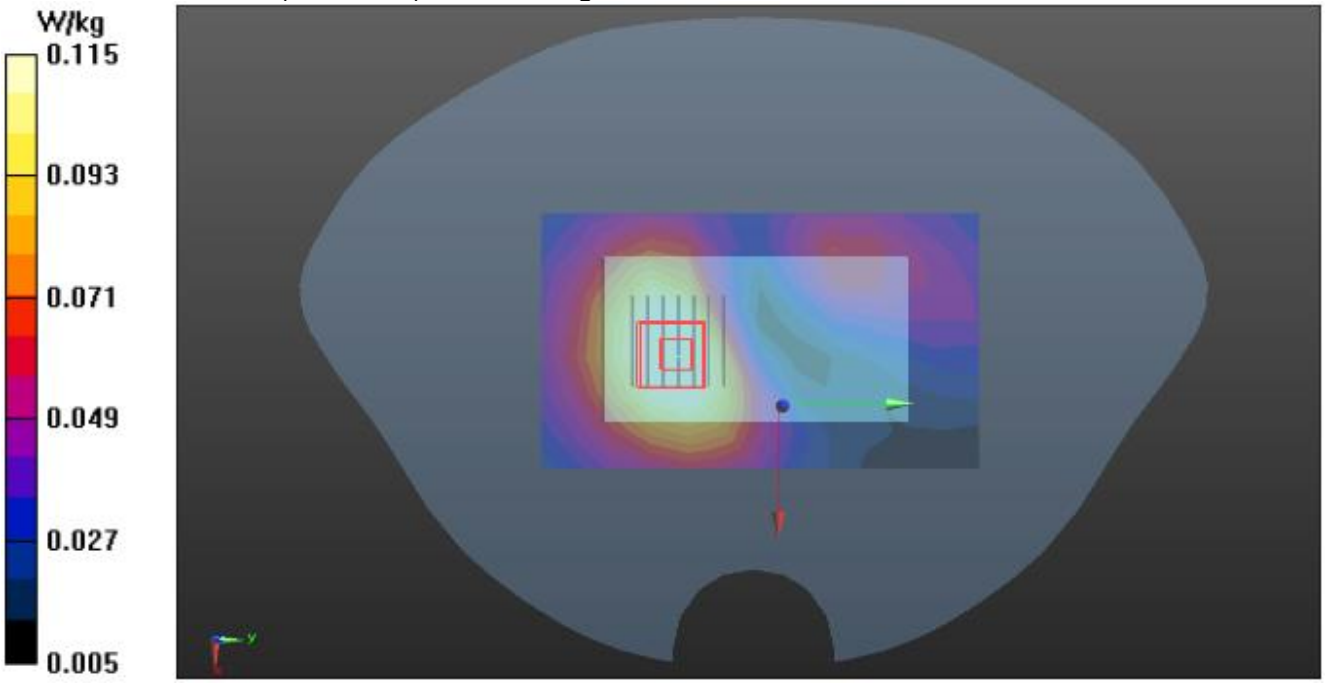
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 41 Mid- Face Up (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58;
Frequency: 2593MHz; Medium parameters used: f =2600 MHz; σ=1.89 mho/m; εr =38.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/FRONT-25MM/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.127 W/kg
HOLD TO FACE /FRONT-25MM/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.297 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.181 W/kg
SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.054 W/kg
Smallest distance from peaks to all points 3 dB below = 18.6 mm
Ratio of SAR at M2 to SAR at M1 = 50.3%
Maximum value of SAR (measured) = 0.115 W/kg



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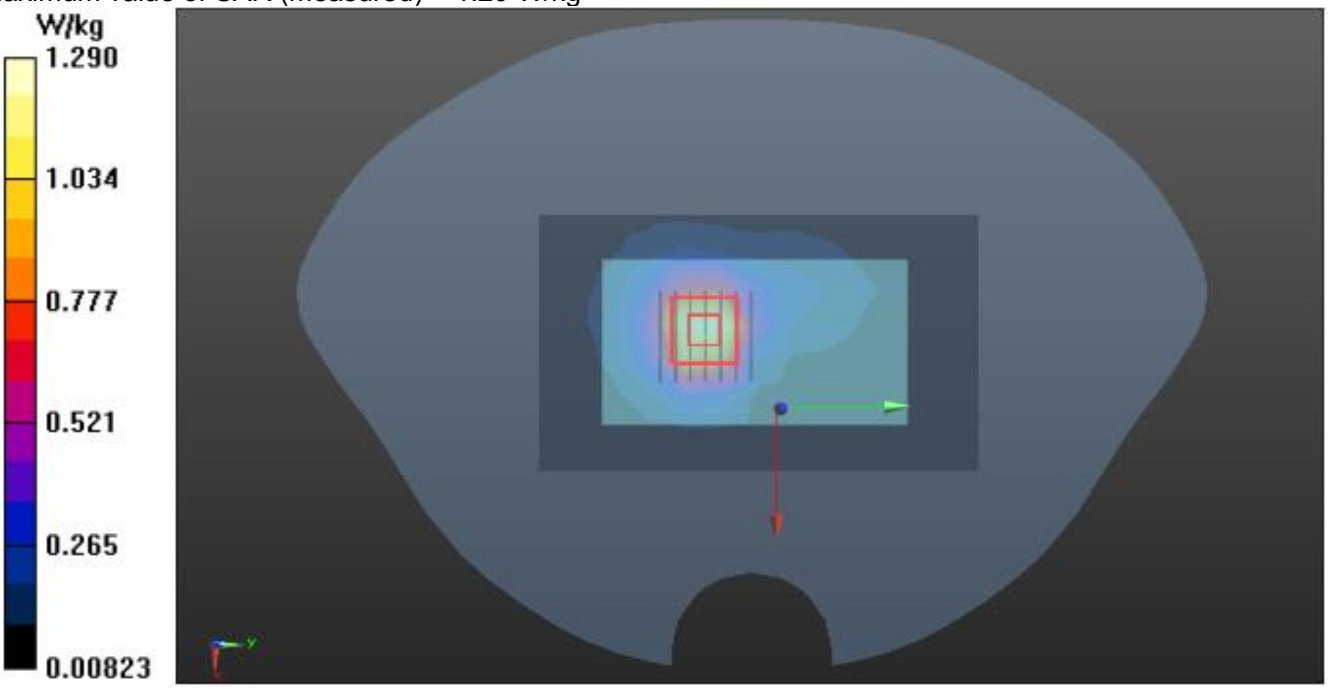
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 41 Mid- Body back with all accessories (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58;
Frequency: 2593MHz; Medium parameters used: f =2600 MHz; σ=1.89 mho/m; εr =38.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.28 W/kg
BODY/BACK+CLIP/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.63 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.15 W/kg
SAR(1 g) = 0.987 W/kg; SAR(10 g) = 0.458 W/kg
Smallest distance from peaks to all points 3 dB below = 12.1 mm
Ratio of SAR at M2 to SAR at M1 = 45.2%
Maximum value of SAR (measured) = 1.29 W/kg



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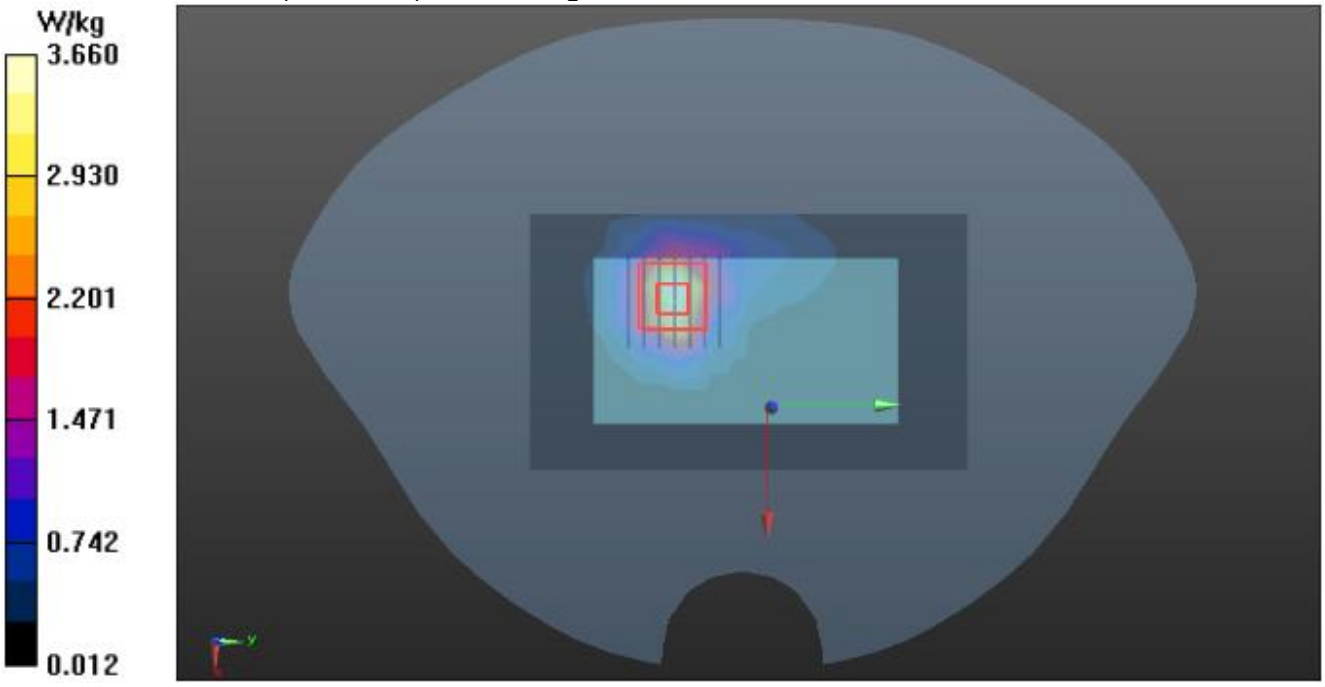
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 41 Mid- Hand- Back (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58;
Frequency: 2593MHz; Medium parameters used: f =2600 MHz; σ=1.89 mho/m; εr =38.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.07 W/kg
BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.59 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 6.27 W/kg
SAR(1 g) = 2.74 W/kg; SAR(10 g) = 1.21 W/kg
Smallest distance from peaks to all points 3 dB below = 10.8 mm
Ratio of SAR at M2 to SAR at M1 = 43%
Maximum value of SAR (measured) = 3.66 W/kg



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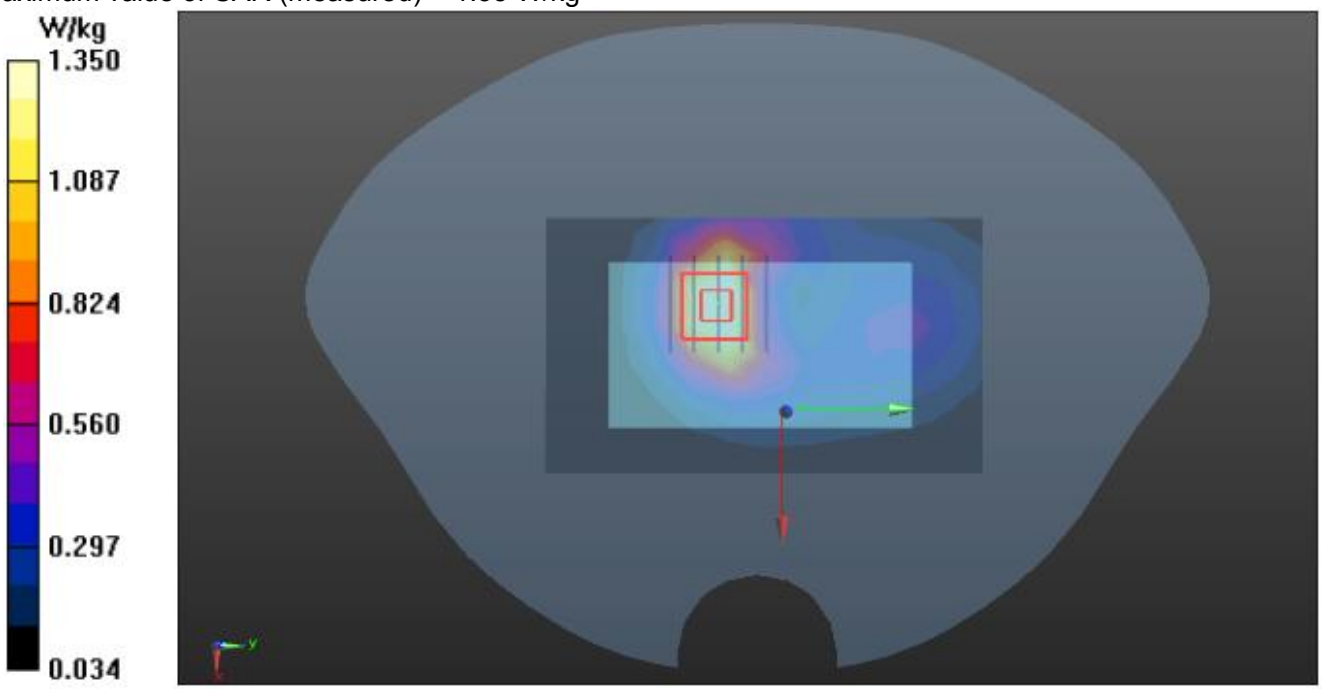
Repeated SAR
Test Laboratory: AGC Lab **Date: Jun. 04, 2025**
LTE Band 2 High-Body back with all accessories (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ= 1.37 mho/m; εr =39.82; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.31, 8.31, 8.31); Calibrated: 2024-09-05;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP HIGH REPEAT/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.56 W/kg
BODY/BACK+CLIP HIGH REPEAT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.36 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.19 W/kg
SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.662 W/kg
Smallest distance from peaks to all points 3 dB below = 12.8 mm
Ratio of SAR at M2 to SAR at M1 = 56.6%
Maximum value of SAR (measured) = 1.35 W/kg



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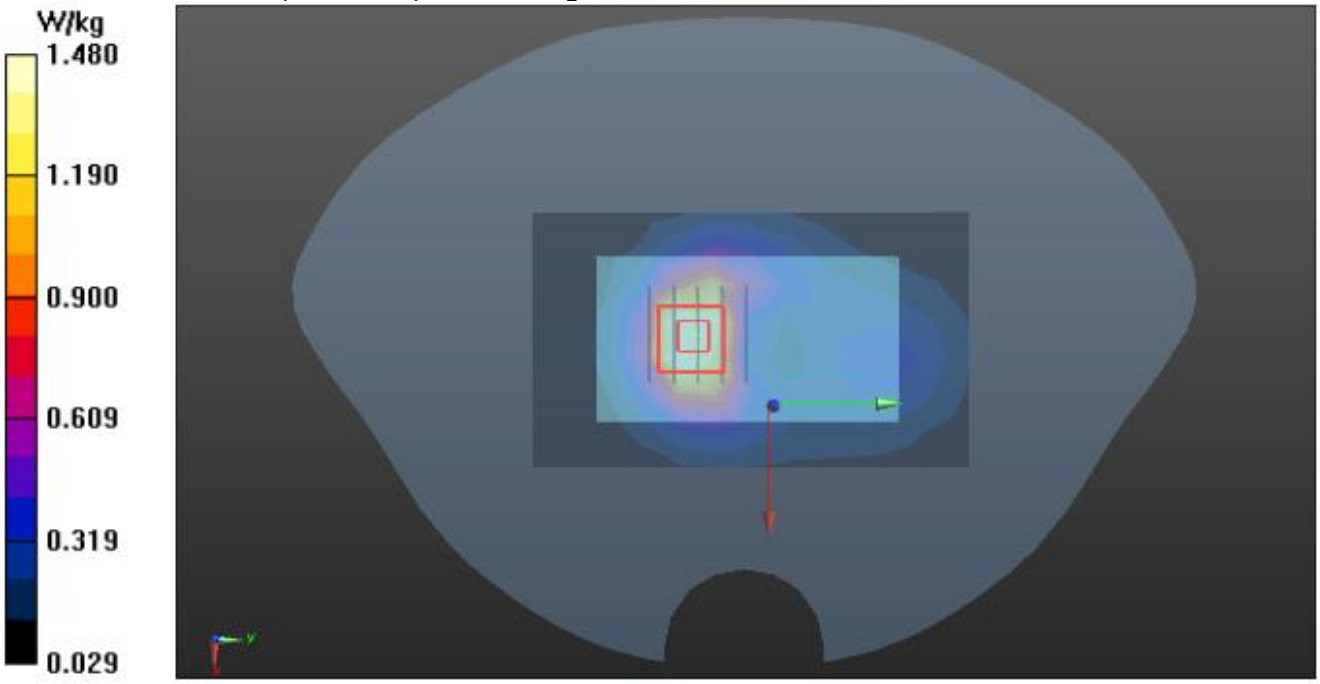
Test Laboratory: AGC Lab **Date: Jun. 03, 2025**
LTE Band 4 Low- Body back with all accessories (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;
Frequency:1720 MHz; Medium parameters used: f = 1750 MHz; σ= 1.33 mho/m; εr =41.39; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.61, 8.61, 8.61); Calibrated: 2024-09-05;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP LOW Repeat/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.56 W/kg
BODY/BACK+CLIP LOW Repeat/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.46 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.46 W/kg
SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.706 W/kg
Smallest distance from peaks to all points 3 dB below = 12.8 mm
Ratio of SAR at M2 to SAR at M1 = 55.1%
Maximum value of SAR (measured) = 1.48 W/kg



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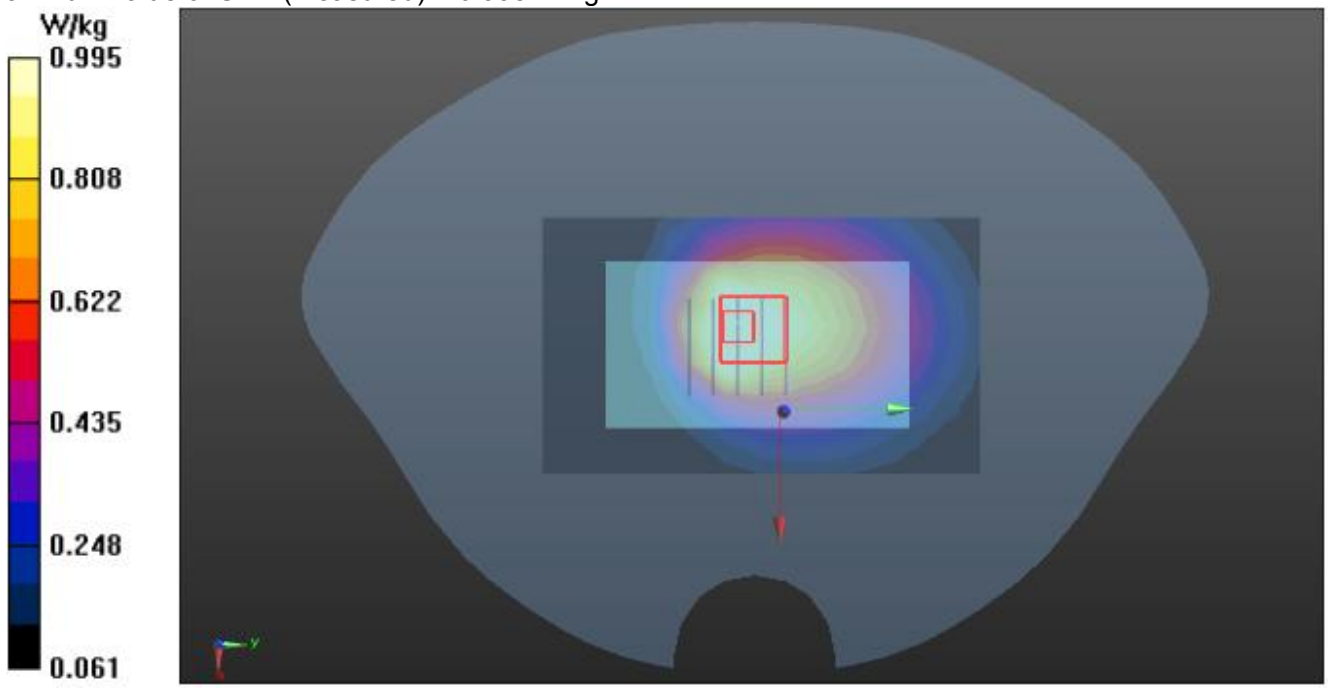
Test Laboratory: AGC Lab **Date: Jun. 08, 2025**
LTE Band 5 Mid- Body back with all accessories (1 RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93mho/m; εr =39.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(9.95, 9.95, 9.95); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP HIGH REPEAT/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.10 W/kg
BODY/BACK+CLIP HIGH REPEAT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.04 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.42 W/kg
SAR(1 g) = 0.943 W/kg; SAR(10 g) = 0.661 W/kg
Smallest distance from peaks to all points 3 dB below = 20 mm
Ratio of SAR at M2 to SAR at M1 = 70.1%
Maximum value of SAR (measured) = 0.995 W/kg



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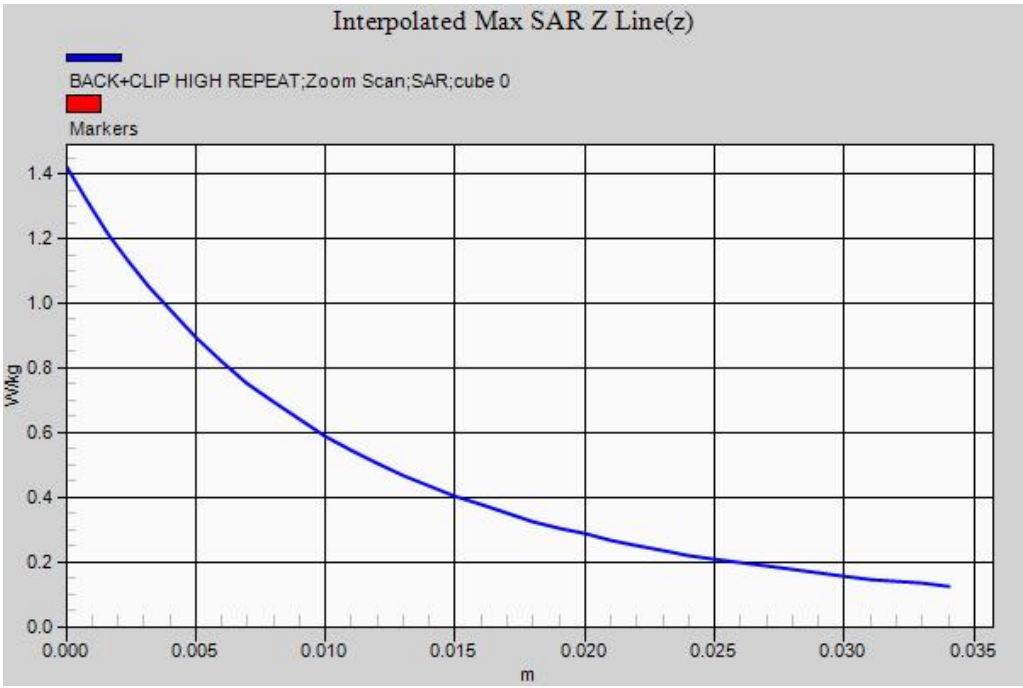

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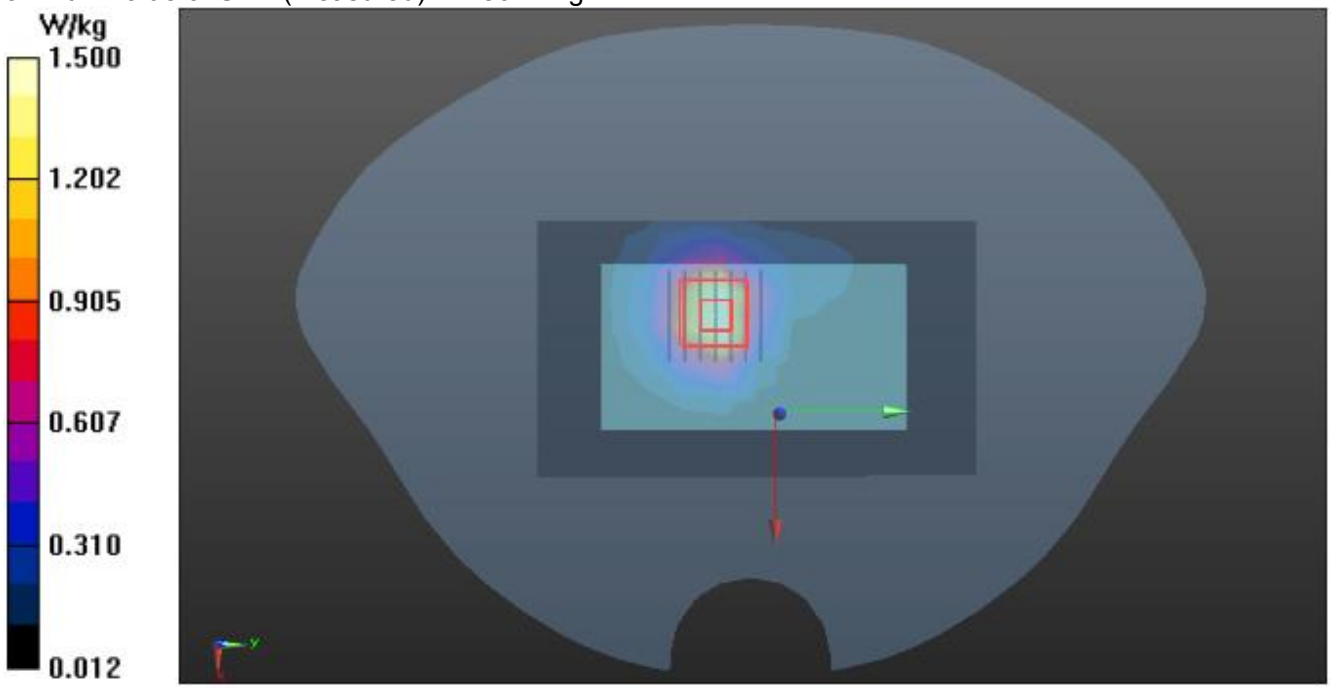
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 7 Mid- Body back with all accessories (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.87 mho/m; εr =40.01; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP REPEAT/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.60 W/kg
BODY/BACK+CLIP REPEAT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.93 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.50 W/kg
SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.527 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 45.3%
Maximum value of SAR (measured) = 1.50 W/kg



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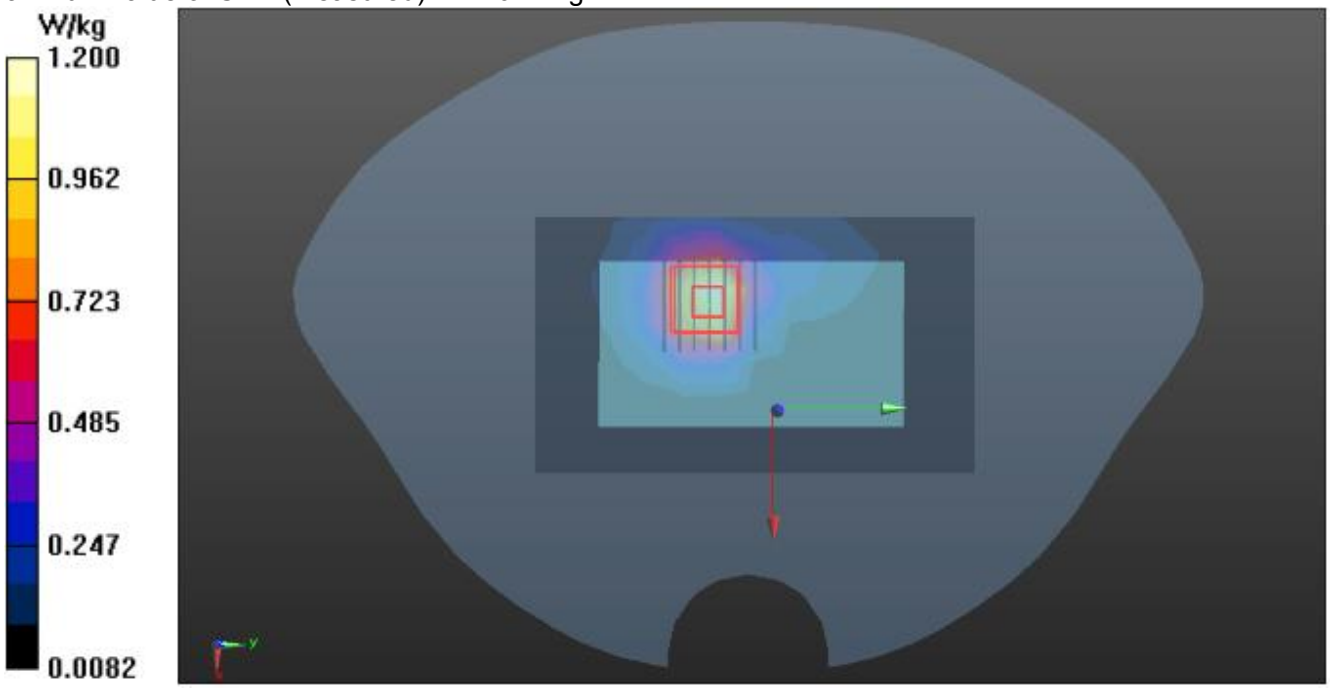
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 38 Mid- Body back with all accessories (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58;
Frequency: 2595MHz; Medium parameters used: f =2600 MHz; σ=1.90 mho/m; εr =38.41; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP REPEAT/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.26 W/kg
BODY/BACK+CLIP REPEAT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.611 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 0.919 W/kg; SAR(10 g) = 0.430 W/kg
Smallest distance from peaks to all points 3 dB below = 12 mm
Ratio of SAR at M2 to SAR at M1 = 46%
Maximum value of SAR (measured) = 1.20 W/kg



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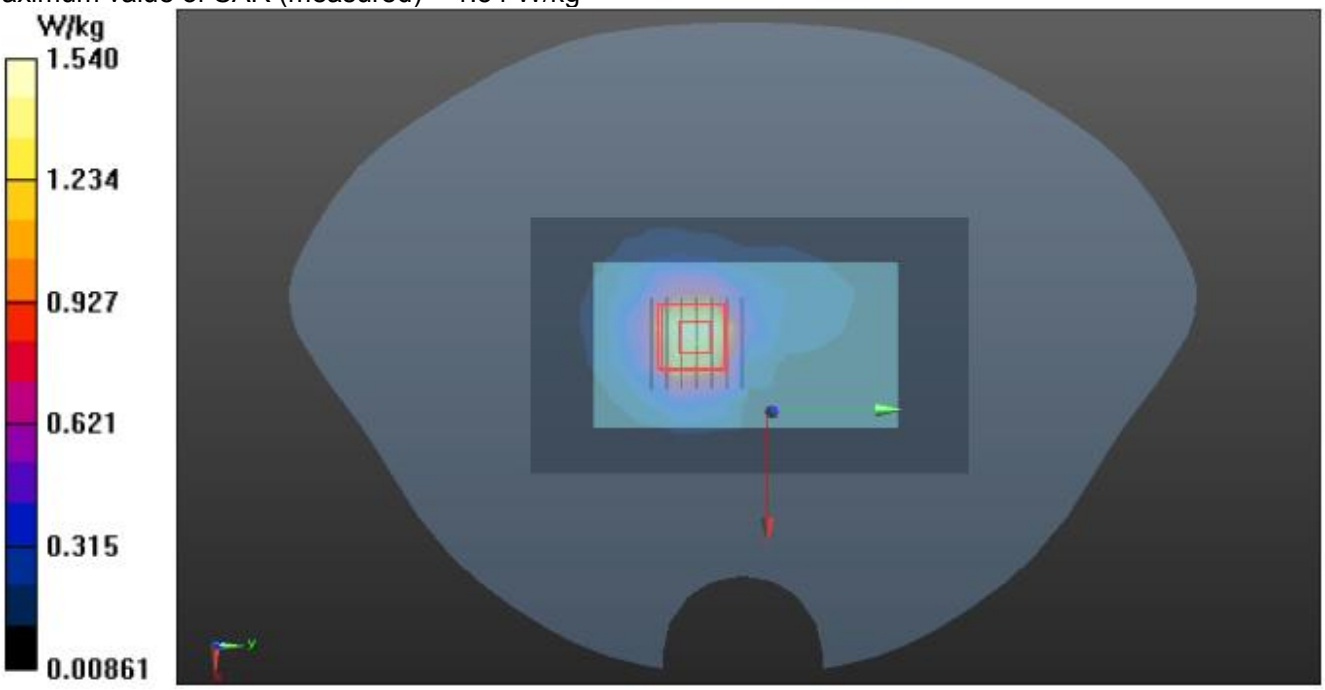
Test Laboratory: AGC Lab **Date: Jun. 05, 2025**
LTE Band 41 Mid- Body back with all accessories (1RB#0)
DUT: GM-168; Type: GM-168

Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58;
Frequency: 2593MHz; Medium parameters used: f =2600 MHz; σ=1.89 mho/m; εr =38.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.70, 7.70, 7.70); Calibrated: 2024-09-05;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 2025-05-09
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK+CLIP LOW REPEAT/Area Scan (8x13x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.50 W/kg
BODY/BACK+CLIP LOW REPEAT/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.60 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 2.56 W/kg
SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.550 W/kg
Smallest distance from peaks to all points 3 dB below = 12.1 mm
Ratio of SAR at M2 to SAR at M1 = 45.3%
Maximum value of SAR (measured) = 1.54 W/kg



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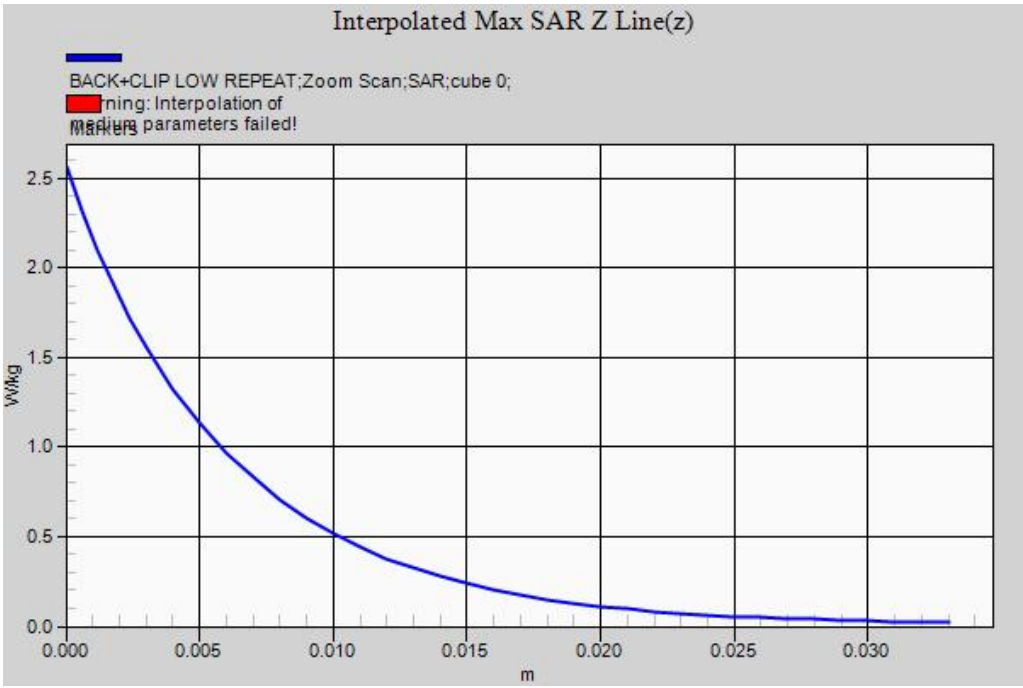

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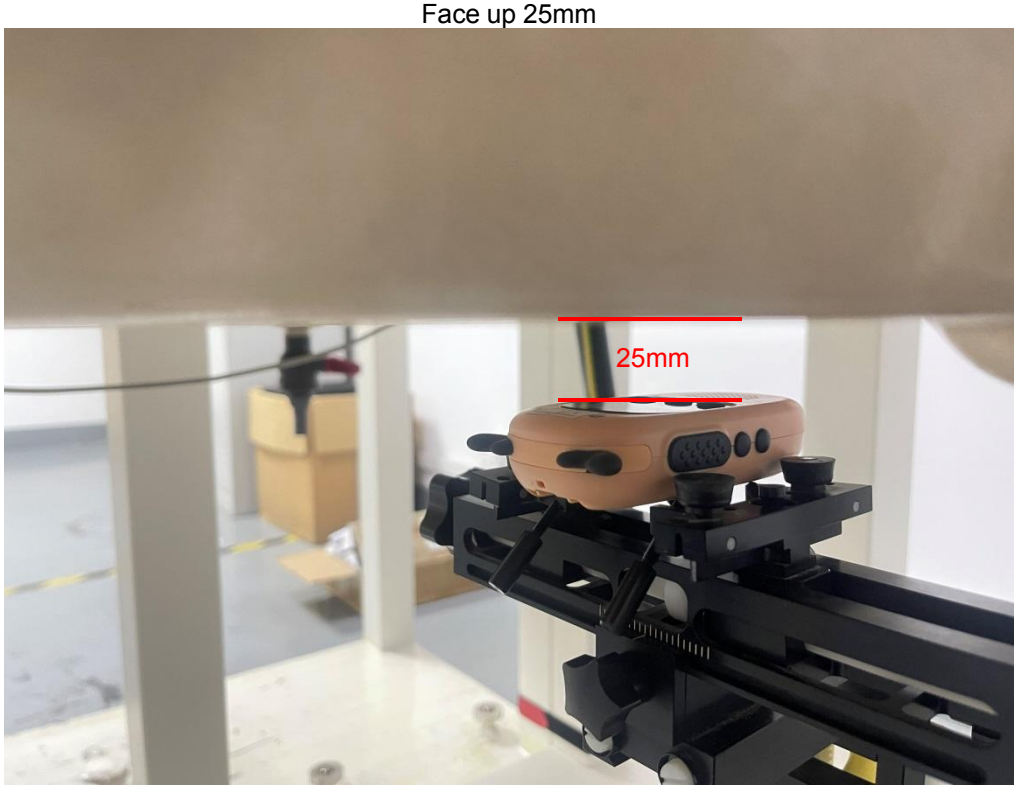
APPENDIX C. TEST SETUP PHOTOGRAPHS

Face up 25mm



Body Back with all accessory 0mm

The thickness of EUT without Belt Clip is 2.5 cm

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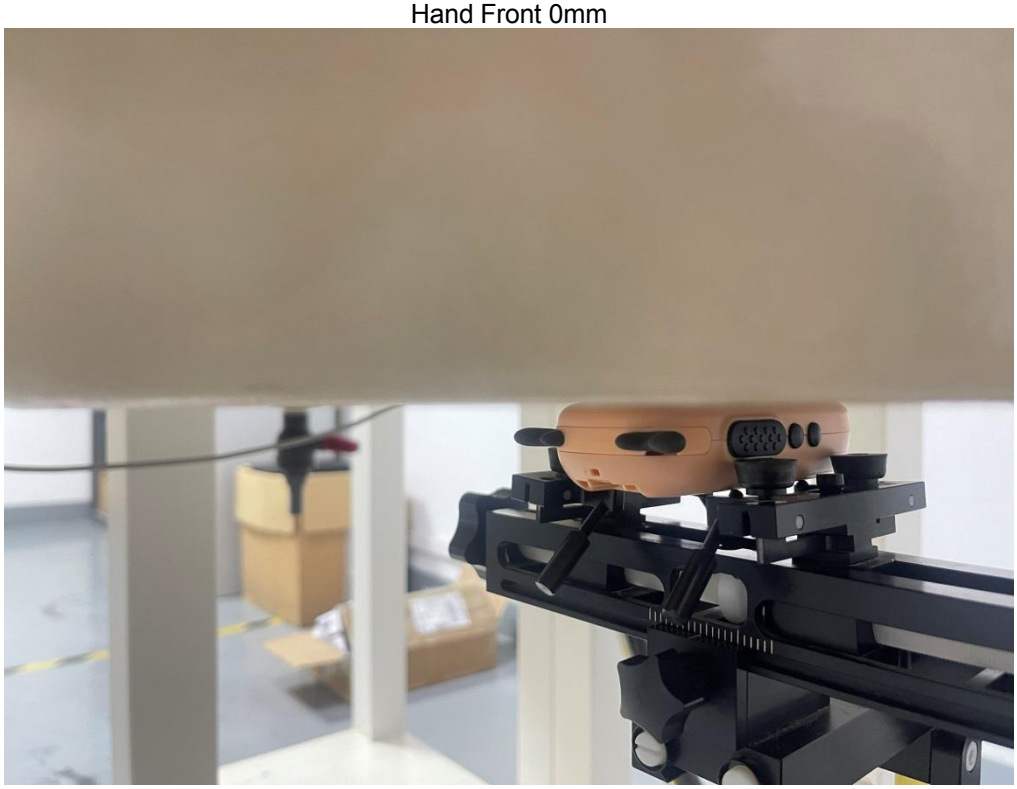
Hand Back 0mm

Hand Front 0mm



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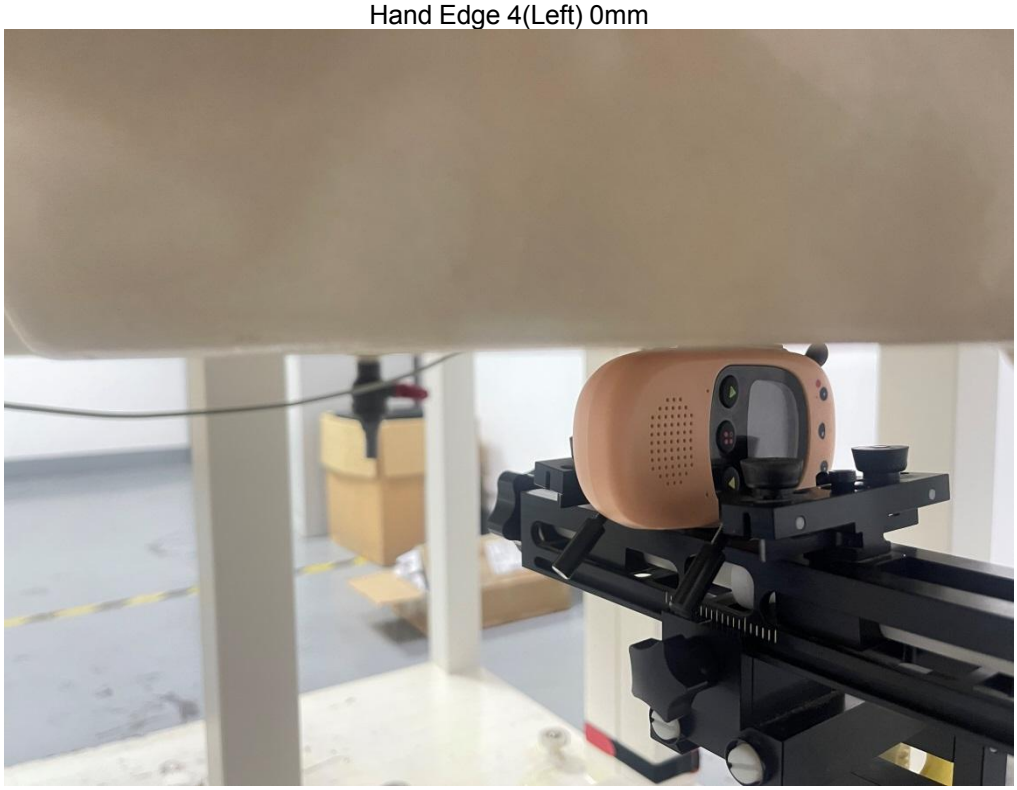
Hand Edge 2(Right) 0mm

Hand Edge 4(Left) 0mm



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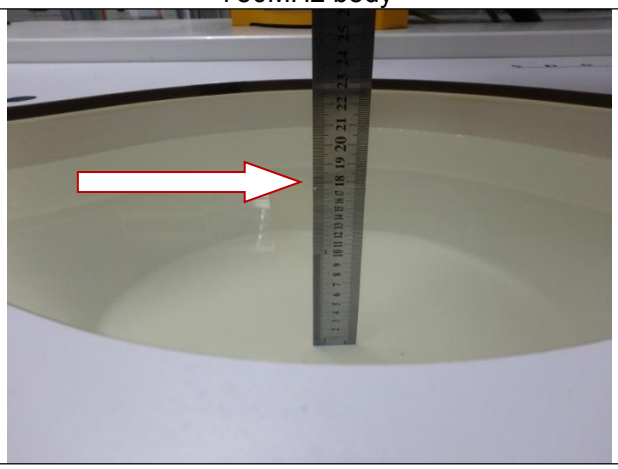
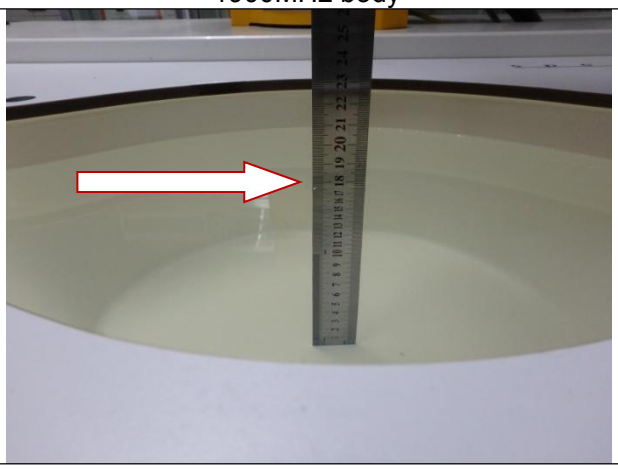
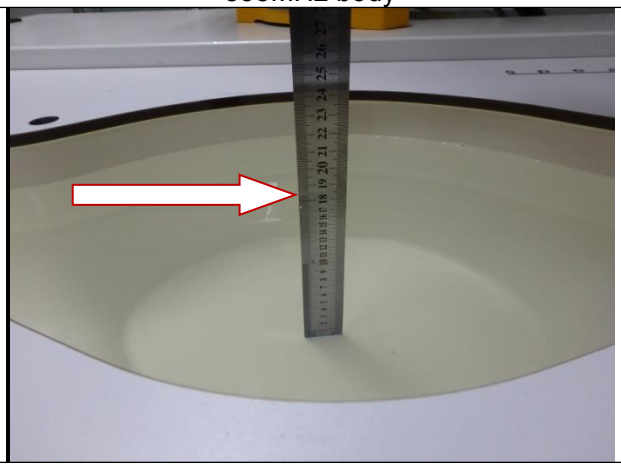
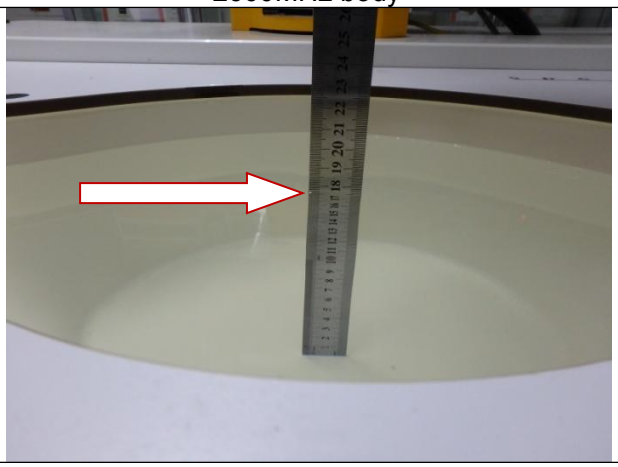
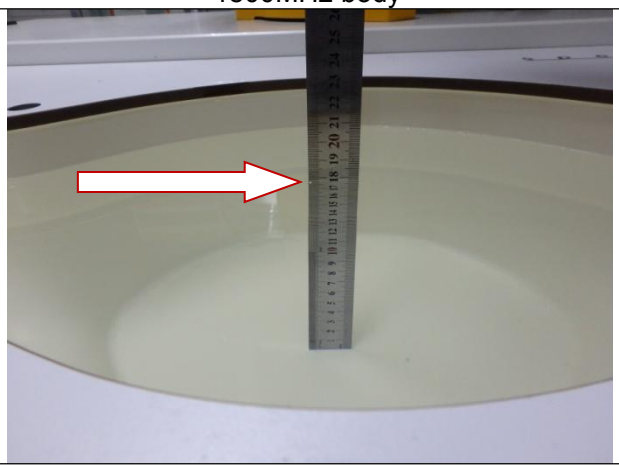
DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note：The position used in the measurement were according to IEEE 1528-2013

750MHz body	1900MHz body
	
835MHz body	**2600MHz body**
	
1800MHz body	
	

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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

APPENDIX E. EUT PHOTOS

Refer to Attached files.

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

----END OF REPORT----

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.