SAR Test Report

Report No.: AGC16740250401FH01

FCC ID	:	WQ8-DV2379
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM
BRAND NAME	:	AUTEL
MODEL NAME	:	MaxiSys MS909S2, MaxiSys MS919S2
APPLICANT	:	Autel Intelligent Technology Corp., Ltd.
DATE OF ISSUE	:	Jul. 11, 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.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 11, 2025	Valid	Initial Release

Test Report

Applicant Name	Autel Intelligent Technology Corp., Ltd.
Applicant Address	Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili, Nanshan, Shenzhen 518055, China
Manufacturer Name	Autel Intelligent Technology Corp., Ltd
Manufacturer Address	Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili, Nanshan, Shenzhen 518055, China
Factory Name	Autel Intelligent Technology Corp., Ltd. Guangming Branch
Factory Address	7F&6F, East Wing, Building 2, and 6F of Electronical Building, Yanxiang Industrial Zone, Gaoxin Rd, Dongzhou Community of Guangming New District, Shenzhen
Product Designation	NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM
Brand Name	AUTEL
Model Name	MaxiSys MS909S2
Series Model(s)	MaxiSys MS919S2
Difference Description	The model name and software function configuration are different
EUT Voltage	DC 3.85V by battery
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. 12, 2025 to Jun. 14, 2025
Report Template	AGCRT-US-5G/SAR (2021-04-20)

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

Prepared By — Thea Huang (Project Engineer) Jul. 11, 2025

Reviewed By — Jack Gui (Reviewer) Jul. 11, 2025

Approved By — Angela Li (Authorized Officer) Jul. 11, 2025

TABLE OF CONTENTS

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) Body-worn (with 0mm separation)			SAR Test Limit (W/kg)
	ANT1	ANT2	ANT1+ANT2	
Module AP6398P				
2.4 GHz WIFI-802.11b	0.967	0.879	/	1.6
2.4 GHz WIFI-802.11n20	0.862	0.630	0.965	
5.2 GHz(U-NII-1) WIFI-802.11a	0.932	1.196	/	
5.2 GHz(U-NII-1) WIFI-802.11ac20	1.018	1.330	1.569	
5.8GHz (U-NII-3) WIFI-802.11a	1.411	/	/	
5.8GHz (U-NII-3) WIFI-802.11ac40	/	1.145	/	
5.8GHz (U-NII-3) WIFI-802.11ac40	0.710	1.145	1.555	
Module WCN6856				
2.4 GHz WIFI-802.11b	0.261	0.786	/	1.6
2.4 GHz WIFI-802.11n20	0.196	0.545	0.741	
5.2 GHz(U-NII-1) WIFI-802.11a	0.519	1.460	/	
5.2 GHz(U-NII-1) WIFI-802.11n20	0.690	1.196	1.503	
5.8GHz (U-NII-3) WIFI-802.11a	0.910	1.442	/	
5.8GHz (U-NII-3) WIFI-802.11ac40	0.800	0.745	1.358	
SAR Test Result	PASS			

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/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 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 616217 D04 SAR evaluation requirements for laptop, notebook, notebook and tablet computers

2. GENERAL INFORMATION

2.1. EUT Description

General Information			
Product Designation	NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM		
Test Model	MaxiSys MS909S2		
Hardware Version	DV2379_MAIN_V2		
Software Version	V01.01.00		
Device Category	Portable		
RF Exposure Environment	Uncontrolled		
Antenna Type	PIFA Antenna		
Bluetooth			
Operation Frequency	2402~2480MHz		
Antenna Gain	2.8dBi		
Bluetooth Version	V5.3		
Type of modulation	**BR/EDR**: GFSK, Π/4-DQPSK, 8-DPSK; **BLE:** GFSK		
Max. Average Power (dBm)	**BR/EDR**: -1.276dBm; **BLE:** -1.221dBm		
2.4GHz WIFI			
WIFI Specification	☒802.11b ☒802.11g ☒802.11n(20) ☒802.11n(40) ☒802.11ax(20) ☒802.11ax(40)		
Operation Frequency	2412~2462MHz		
Average Power	Module AP6398P	ANT1	11b:12.82dBm,11g:11.60dBm,11n(20):11.71dBm
		ANT2	11b:12.20dBm,11g:11.78dBm,11n(20):11.79dBm
		MIMO	11n(20):14.76dBm
	Module WCN6856	ANT1	11b:12.10dBm, 11g:11.03dBm, 11n(20):10.86dBm, 11n(40):10.87dBm; 11ax(20):10.85dBm, 11ax(40):10.74dBm;
		ANT2	11b:12.05dBm,11g:10.81dBm,11n(20):10.79dBm,11n(40): 10.50dBm; 11ax(20):9.89dBm,11ax(40):9.43dBm;
		MIMO	11n(20): 13.84Bm, 11n(40):13.70dBm, 11ax(20):13.22dBm, 11ax(40): 13.14dBm;
Antenna Gain	Module AP6398P	ANT1	3.1dBi
		ANT2	2.7dBi
	Module WCN6856	ANT1	2.8dBi
		ANT2	1.1dBi

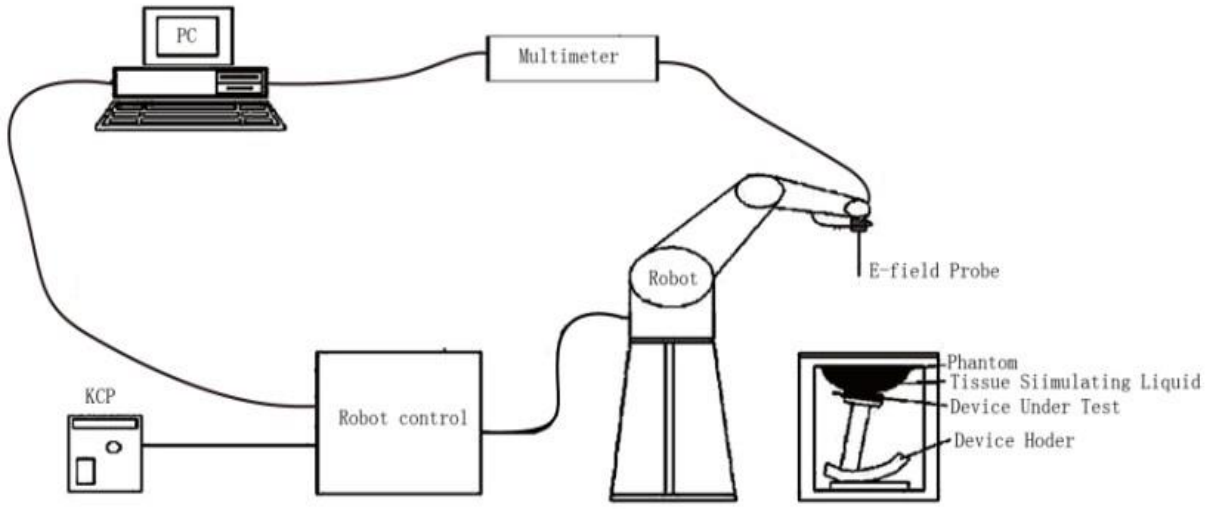
5GHz WIFI			
WIFI Specification	☒802.11a ☒802.11n20 ☒802.11ac20 ☒802.11ax20 ☒802.11n40 ☒802.11ac40 ☒802.11ax40 ☒802.11ac80 ☒802.11ax80		
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-3: 5745MHz~5825MHz;		
Type of modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ax :(1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA		
EIRP	Module AP6398P	ANT1	U-NII-1: 12.44dBm; U-NII-3: 10.07dBm;
		ANT2	U-NII-1: 11.40dBm; U-NII-3: 11.48dBm;
		MIMO	U-NII-1: 13.71dBm; U-NII-3: 13.80dBm;
	Module WCN6856	ANT1	U-NII-1: 12.18dBm; U-NII-3: 12.83dBm;
		ANT2	U-NII-1: 12.13dBm; U-NII-3: 12.58dBm;
		MIMO	U-NII-1: 14.61dBm; U-NII-3: 14.80dBm;
Antenna Gain	Module AP6398P	ANT1	5.2GHz :2.0dBi; 5.8GHz :1.6dBi
		ANT2	5.2GHz :2.6dBi; 5.8GHz :2.3dBi
	Module WCN6856	ANT1	5.2GHz :1.1dBi; 5.8GHz :2.2dBi
		ANT2	5.2GHz :1.6dBi; 5.8GHz :1.3dBi
Battery	Brand name: AUTEL Model No. : DV2379 Voltage and Capacitance: 3.85V & 15000mAh		

Note: 1.The sample used for testing is end product.

2. The test sample has no any deviation to the test method of standard mentioned in page 1.

3. SAR MEASUREMENT SYSTEM

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



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

- The PC. It controls most of the bench devices and stores measurement data.A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.

·The phantom, the device holder and other accessories according to the targeted measurement.

3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. 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. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE1528 etc.)Under ISO17025.The calibration data are in Appendix D.

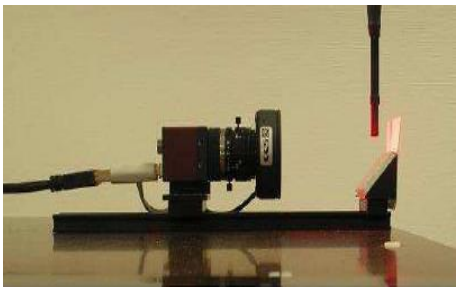
Isotropic E-Field Probe Specification

Model	SSE2	
Manufacture	MVG	
Identification No.	2023-EPGO-414	
Frequency	0.15GHz-7.5GHz Linearity:±0.10dB(0.15GHz-7.5GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.10dB	
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity: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 precisin of better 30%.	

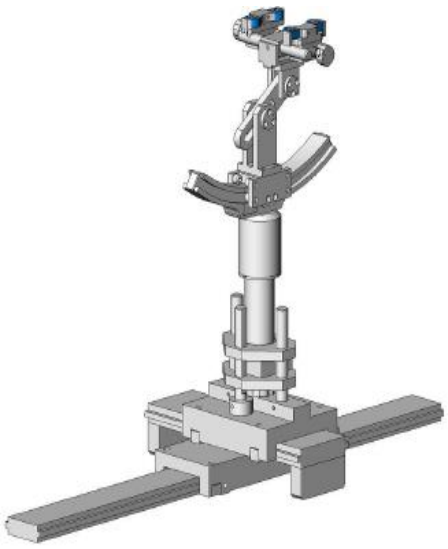
3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO 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	

3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts.The camera is piloted by the main computer with firewire link. 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 probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.	

3.5. Device Holder

The COMOSAR 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 COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity εr =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.	

3.6. 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.

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:

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

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

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

$$SAR = c_h \left.\frac{dT}{dt}\right|_{t=0}$$

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

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 SATIMO 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 standards, 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.

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	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

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.

4.3. RF Exposure Conditions

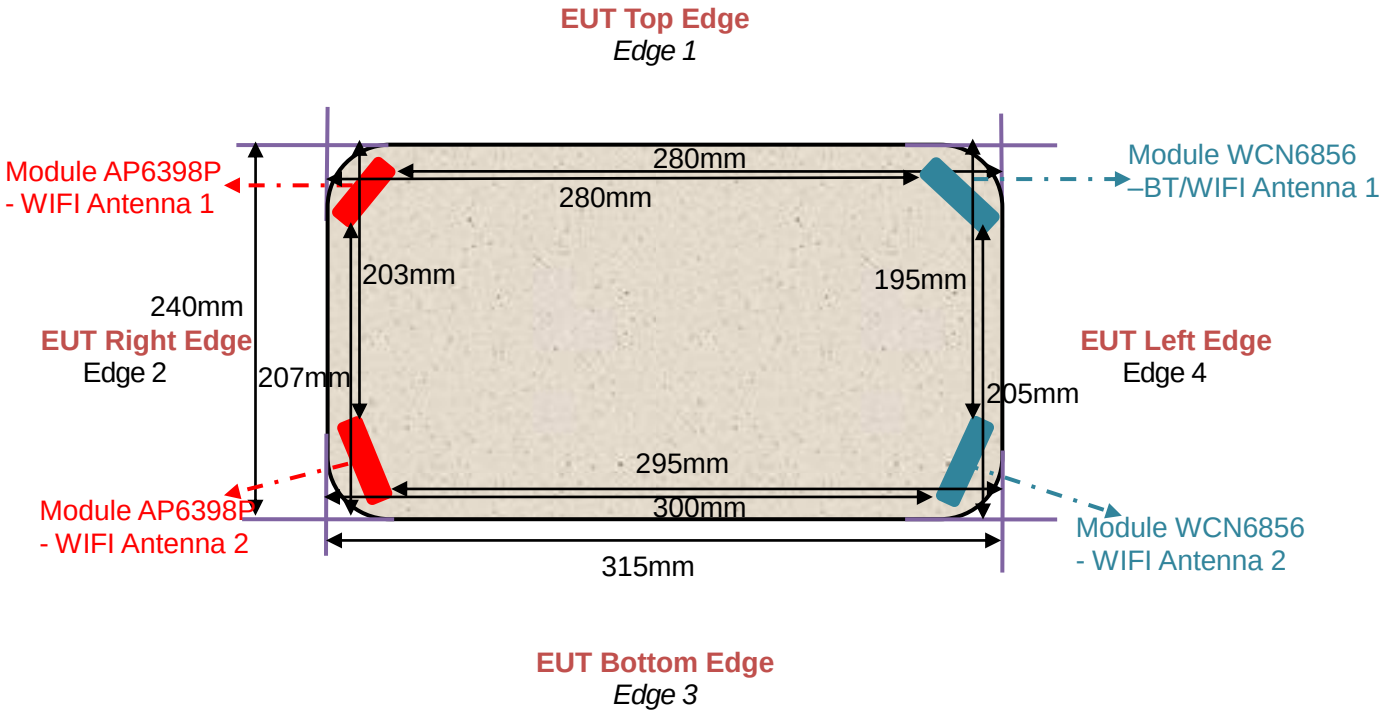
Test Configuration and setting:

The device supports 2.4GHz, 5GHz WIFI and Bluetooth and it is equipped with two modules, and modules 1 and 2 cannot transmit simultaneously.

For SAR testing, the EUT is configured with the WLAN continuous TX tool through qualcomm software.

Due the BT power is less than exemption limit, SAR is not required.

Antenna Location: (the back view)



SAR Test Exclusion Consideration for Adjacent Edges

Per KDB 447498 D01 cl. 4.3.1:

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for1-g SAR, and ≤ 7.5 for 10-g extremity SAR.

b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)•(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz

2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)•10]} mW, for > 1500 MHz and ≤ 6 GHz

1-g SAR test exclusion thresholds for Module AP6398P					
ANT1					
Test Mode \ Test position		Edge 1 (6mm)	Edge 2 (6mm)	Edge 3 (207mm)	Edge 4 (280mm)
2.4G WIFI	SAR test exclusion thresholds(mW)	11.53	11.53	1666.09	2396.09
	SAR Max. Avg. Burst Power(mW)	19.14	19.14	19.14	19.14
	SAR required (Yes/No)	YES	YES	NO	NO
5.2G WIFI	SAR test exclusion thresholds(mW)	7.91	7.91	1635.91	2365.91
	SAR Max. Avg. Burst Power(mW)	17.54	17.54	17.54	17.54
	SAR required (Yes/No)	YES	YES	NO	NO
5.8G WIFI	SAR test exclusion thresholds(mW)	7.51	7.51	1632.58	2362.58
	SAR Max. Avg. Burst Power(mW)	10.16	10.16	10.16	10.16
	SAR required (Yes/No)	YES	YES	NO	NO
ANT2					
Test Mode \ Test position		Edge 1 (203mm)	Edge 2 (6mm)	Edge 3 (6mm)	Edge 4 (295mm)
2.4G WIFI	SAR test exclusion thresholds(mW)	1626.58	11.59	11.59	2546.58
	SAR Max. Avg. Burst Power(mW)	16.60	16.60	16.60	16.60
	SAR required (Yes/No)	NO	YES	YES	NO
5.2G WIFI	SAR test exclusion thresholds(mW)	1595.91	7.91	7.91	2515.91
	SAR Max. Avg. Burst Power(mW)	13.80	13.80	13.80	13.80
	SAR required (Yes/No)	NO	YES	YES	NO
5.8G WIFI	SAR test exclusion thresholds(mW)	1592.53	7.50	7.50	2512.53
	SAR Max. Avg. Burst Power(mW)	14.06	14.06	14.06	14.06
	SAR required (Yes/No)	NO	YES	YES	NO

1-g SAR test exclusion thresholds for Module WCN6856					
ANT1					
Test Mode \ Test position		Edge 1 (6mm)	Edge 2 (280mm)	Edge 3 (205mm)	Edge 4 (6mm)
2.4G WIFI	SAR test exclusion thresholds(mW)	11.59	2396.58	1646.58	11.59
	SAR Max. Avg. Burst Power(mW)	16.22	16.22	16.22	16.22
	SAR required (Yes/No)	YES	NO	NO	YES
5.2G WIFI	SAR test exclusion thresholds(mW)	7.91	2365.91	1615.91	7.91
	SAR Max. Avg. Burst Power(mW)	16.52	16.52	16.52	16.52
	SAR required (Yes/No)	YES	NO	NO	YES
5.8G WIFI	SAR test exclusion thresholds(mW)	7.46	2362.15	1612.15	7.46
	SAR Max. Avg. Burst Power(mW)	19.19	19.19	19.19	19.19
	SAR required (Yes/No)	YES	NO	NO	YES
ANT2					
Test Mode \ Test position		Edge 1 (195mm)	Edge 2 (300mm)	Edge 3 (6mm)	Edge 4 (6mm)
2.4G WIFI	SAR test exclusion thresholds(mW)	1546.58	2596.58	11.59	11.59
	SAR Max. Avg. Burst Power(mW)	16.03	16.03	16.03	16.03
	SAR required (Yes/No)	NO	NO	YES	YES
5.2G WIFI	SAR test exclusion thresholds(mW)	1515.91	2565.91	7.91	7.91
	SAR Max. Avg. Burst Power(mW)	16.33	16.33	16.33	16.33
	SAR required (Yes/No)	NO	NO	YES	YES
5.8G WIFI	SAR test exclusion thresholds(mW)	1515.40	2565.40	7.85	7.85
	SAR Max. Avg. Burst Power(mW)	9.55	9.55	9.55	9.55
	SAR required (Yes/No)	NO	NO	YES	YES

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	Diethylen glycol monohex ylether
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

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
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
1450	40.5	1.20	40.5	1.20
1800 – 2000	40.0	1.40	40.0	1.40
2450	**39.2**	**1.80**	**52.7**	**1.95**
3000	38.5	2.40	38.5	2.40
5200	**36.0**	**4.66**	**49.0**	**5.30**
5300	**35.9**	**4.76**	**48.9**	**5.42**
5600	**35.5**	**5.07**	**48.5**	**5.77**
5800	**35.3**	**5.27**	**48.2**	**6.00**

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

5.3. Tissue Calibration Result

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

Tissue Stimulant Measurement for 2450MHz							
	Fr. (MHz)	Dielectric Parameters (±5%)		Ambient Temp [℃]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		εr39.2 (37.24-41.16)	δ[s/m]1.80 (1.71-1.89)				
Head	2412	39.37	1.73	21.7	59.3	21.2	Jun. 14, 2025
	2437	39.12	1.75				
	2450	38.66	1.76				
	2462	38.29	1.78				

Tissue Stimulant Measurement for 5200MHz							
	Fr. (MHz)	Dielectric Parameters (±5%)		Ambient Temp [℃]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		εr 36.0 (34.105-37.695)	δ[s/m] 4.66 (4.427-4.893)				
Head	5180	36.24	4.50	21.5	50.4	21.1	Jun. 12, 2025
	5200	35.71	4.52				
	5240	35.11	4.54				

Tissue Stimulant Measurement for 5800MHz							
	Fr. (MHz)	Dielectric Parameters (±5%)		Ambient Temp [℃]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		εr 35.3 (33.535-37.065)	δ[s/m] 5.27 (5.0065-5.5335)				
Head	5745	36.82	5.18	21.8	49.5	21.6	Jun. 13, 2025
	5755	36.69	5.21				
	5785	36.41	5.23				
	5795	36.22	5.27				
	5800	35.69	5.29				
	5825	35.13	5.33				

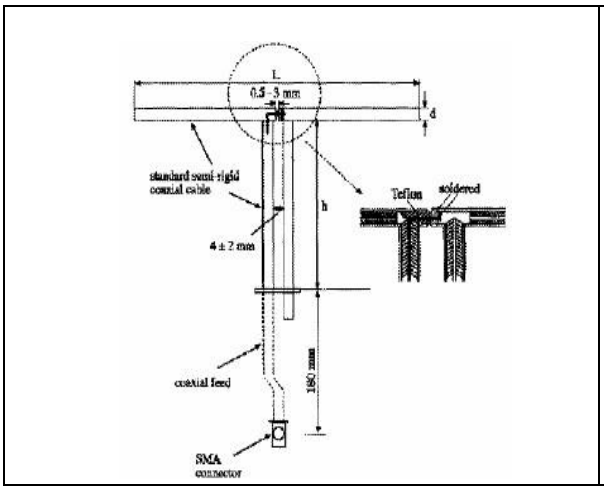
6. SAR SYSTEM CHECK PROCEDURE

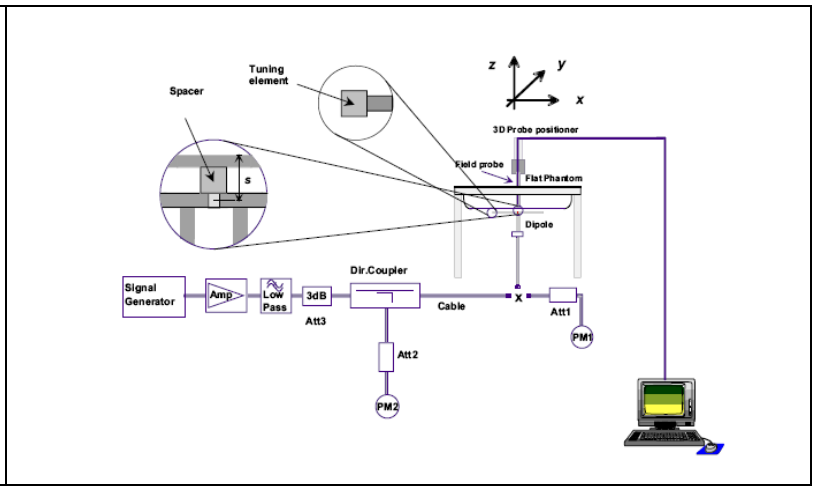
6.1. SAR System Check Procedures

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.

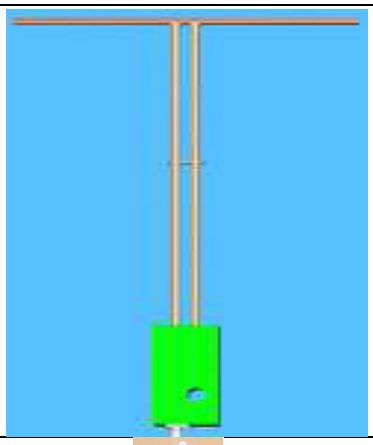
Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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.





6.2. SAR System Check
6.2.1. Dipoles

	The dipoles are based on the IEEE-1528 standard, and are 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.
	The dipole is 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 wave guide.

Frequency	L (mm)	h (mm)	d (mm)
2450MHz	51.5	30.4	3.6
5000MHz	20.6	40.3	3.6

6.2.2. System Check Result

System Performance Check at 2450MHz & 5200-5800MHz for Head							
Validation Kit: SN 2915 DIP 2G450-393 & SN 1722 DIP 5G000-671							
Frequency [MHz]	Target Value(W/kg)		Reference Result (± 10%)		Normalized to 1W(W/kg)		Test time
	1g	10g	1g	10g	1g	10g	
2450	52.85	24.53	47.57-58.14	22.08-26.98	58.03	25.36	Jun. 14, 2025
5200	77.74	22.60	69.97-85.51	20.34-24.86	72.70	24.30	Jun. 12, 2025
5800	75.01	21.84	67.51-82.51	19.66-24.02	70.40	22.80	Jun. 13, 2025

Note:
(1) We use a CW signal of 15dBm/10dBm for system check, and then all SAR values are normalized to 1W forward power. The result must be within ±10% of target value.

7. EUT TEST POSITION

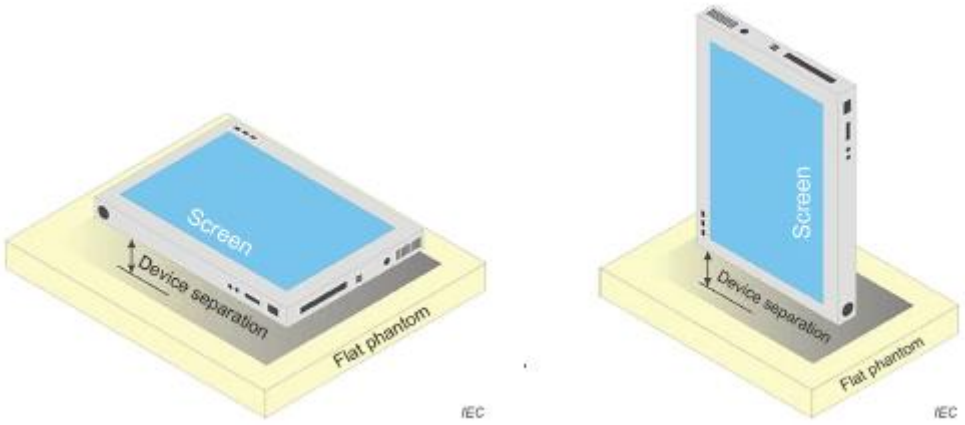
This EUT was tested in **Body back, Body front and 4 edges.**

7.1. Body Worn 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 **0mm.**



8. SAR EXPOSURE LIMITS

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

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

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

10. TEST EQUIPMENT LIST

No.	Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
AGC-HE-A103	SAR Probe	MVG	2023-EPGO-414	N/A	2025-05-06	2026-05-05
AGC-HE-A071	Phantom	SATIMO	SN_2316_ELLI39	N/A	Validated. No cal required.	Validated. No cal required.
AGC-HE-A073	Multimeter	Keithley 2000	4114939	N/A	2025-05-16	2026-05-15
AGC-HE-S003	SAR Software	MVG-OpenSAR	N/A	V5.3.15.8	N/A	N/A
AGC-HE-A061	Dipole	SATIMO SID2450	SN 2915 DIP 2G450-393	N/A	2025-05-16	2028-05-15
AGC-HE-A101	Dipole	SID5000	SN 1722 DIP 5G000-671	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
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 IEC/IEEE 62209-1528 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.

11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- 2023-EPGO-414 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.105	R	1.732	0.707	0.707	0.043	0.043	∞
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0.707	0.707	0.043	0.043	∞
Boundary effect	E.2.3	1.000	R	1.732	1	1	0.577	0.577	∞
Linearity	E.2.4	1.105	R	1.732	1	1	0.638	0.638	∞
System detection limits	E.2.4	1.000	R	1.732	1	1	0.577	0.577	∞
Modulation response	E2.5	3.000	R	1.732	1	1	1.732	1.732	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1	1	1.328	1.328	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.00	3.00	∞
Output power variation—SAR drift measurement	E.2.9	5	R	1.732	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	1.732	1	1	2.89	2.89	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.120	2.840	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	∞
Combined Standard Uncertainty			RSS				10.533	10.348	
Expanded Uncertainty (95% Confidence interval)			K=2				21.065	20.695	

SATIMO Uncertainty- 2023-EPGO-414 System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.105	R	1.732	1.000	1.000	0.061	0.061	∞
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0.000	0.000	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Linearity	E.2.4	1.105	R	1.732	1.000	1.000	0.638	0.638	∞
System detection limits	E.2.4	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Modulation response	E2.5	3.000	R	1.732	0.000	0.000	0.000	0.000	∞
Readout Electronics	E.2.6	0.021	N	1.000	1.000	1.000	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	0.000	0.000	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	0.000	0.000	0.000	0.000	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1.000	1.000	1.328	1.328	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5	N	1	1	1	5	5	∞
Input power and SAR drift measurement	8,6.6.4	5	R	1.732	1	1	2.887	2.887	∞
Dipole axis to liquid distance	8,E.6.6	2	R	1.732	1	1	1.155	1.155	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.9	1.596	∞
Liquid conductivity（temperature uncertainty）	E.3.3	4	N	1	0.78	0.71	3.12	2.84	∞
Liquid conductivity（measured）	E.3.3	5	N	1	0.23	0.26	1.15	1.3	M
Liquid permittivity（temperature uncertainty）	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity（measured）	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.466	10.279	
Expanded Uncertainty (95% Confidence interval)			K=2				20.931	20.559	

SATIMO Uncertainty- 2023-EPGO-414 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	0.500	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	0.105	R	1.732	0	0	0	0	∞
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0	0	0	0	∞
Boundary effect	E.2.3	1.000	R	1.732	0	0	0	0	∞
Linearity	E.2.4	1.105	R	1.732	0	0	0	0	∞
System detection limits	E.2.4	1	R	1.732	0	0	0	0	∞
Modulation response	E2.5	3	R	1.732	0	0	0	0	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0	0	∞
Response Time	E.2.7	0	R	1.732	0	0	0	0	∞
Integration Time	E.2.8	1.4	R	1.732	0	0	0	0	∞
RF ambient conditions-Noise	E.6.1	3	R	1.732	0	0	0	0	∞
RF ambient conditions-reflections	E.6.1	3	R	1.732	0	0	0	0	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.000	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1.000	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1.000	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	M
Combined Standard Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	

12. CONDUCTED POWER MEASUREMENT

2.4GHz WIFI

Mode	Data Rate (Mbps)	Channel	Frequency (MHz)	Average Power [dBm] -ANT1	Average Power [dBm] -ANT2	Average Power [dBm] -MIMO
Module AP6398P						
802.11b	1	1	2412	12.77	**12.20**	N/A
		6	2437	**12.82**	11.12	N/A
		11	2462	12.65	10.01	N/A
802.11g	6	1	2412	11.60	11.78	N/A
		6	2437	11.52	10.57	N/A
		11	2462	11.13	9.48	N/A
802.11n(20)	MCS0	1	2412	11.71	11.79	**14.76**
		6	2437	11.44	10.53	14.02
		11	2462	11.06	9.57	13.39
Module WCN6856						
802.11b	1	1	2412	**12.10**	1**2.05**	N/A
		6	2437	11.59	11.48	N/A
		11	2462	11.82	11.25	N/A
802.11g	6	1	2412	11.03	10.81	N/A
		6	2437	10.52	10.33	N/A
		11	2462	10.78	10.34	N/A
802.11n(20)	MCS0	1	2412	10.86	10.79	**13.84**
		6	2437	10.49	10.23	13.37
		11	2462	10.77	10.15	13.48
802.11n(40)	MCS0	1	2412	10.87	10.50	13.70
		6	2437	10.76	10.51	13.65
		11	2462	10.52	10.25	13.40
802.11ax(20)	MCS0	1	2412	10.85	9.47	13.22
		6	2437	10.51	9.89	13.22
		11	2462	10.76	9.05	13.00
802.11ax(40)	MCS0	1	2412	10.74	9.43	13.14
		6	2437	10.60	9.37	13.04
		11	2462	10.39	9.27	12.88

Bluetooth_V5.2 (BR/EDR)

Modulation	Channel	Frequency(MHz)	Average Power (dBm)
GFSK	0	2402	**-1.276**
	39	2441	-1.762
	78	2480	-2.019
π /4-DQPSK	0	2402	-2.086
	39	2441	-2.516
	78	2480	-2.661
8-DPSK	0	2402	-1.637
	39	2441	-2.182
	78	2480	-2.363

Bluetooth_V5.2 (BLE)

Modulation	Channel	Frequency(MHz)	Average Power (dBm)
GFSK 1M	0	2402	**-1.242**
	19	2440	-1.759
	39	2480	-1.872
GFSK 2M	0	2402	**-1.221**
	19	2440	-1.833
	39	2480	-1.844

BR&EDR:

The result for RF exposure evaluation SAR=(0.745mW /5mm) .[√2.402(GHz)]=0.231<3.0 for 1-g SAR

BLE:

The result for RF exposure evaluation SAR=(0.755mW /5mm) .[√2.402(GHz)]=0.234<3.0 for 1-g SAR.

CONCLUSION

The SAR evaluation of BT is not required.

5GHz WIFI-Module AP6398P

Mode	channel	Frequency	Average Power (dBm)-ANT1							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	**12.44**	12.33	12.23	12.16	12.12	11.95	11.80	11.61
	40	5200	10.42	10.38	10.30	10.23	10.22	10.13	9.94	9.83
	48	5240	9.67	9.50	9.42	9.40	9.33	9.19	9.00	8.99
	149	5745	**10.07**	9.90	9.73	9.62	9.49	9.38	9.30	9.20
	157	5785	9.73	9.64	9.49	9.38	9.25	9.12	9.09	8.92
	165	5825	9.25	9.16	9.14	9.01	8.90	8.72	8.70	8.55
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	10.81	10.71	10.62	10.59	10.49	10.41	10.40	10.27
	40	5200	10.47	10.47	10.37	10.30	10.17	10.13	10.09	9.96
	48	5240	9.71	9.52	9.36	9.28	9.17	9.02	8.92	8.88
	149	5745	10.02	10.02	9.95	9.89	9.74	9.60	9.40	9.26
	157	5785	9.54	9.49	9.34	9.22	9.08	8.94	8.81	8.77
	165	5825	9.13	8.94	8.77	8.69	8.66	8.66	8.57	8.50
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	9.50	9.35	9.24	9.21	9.01	9.00	8.81	8.78
	46	5230	8.69	8.66	8.52	8.46	8.43	8.40	8.20	8.11
	151	5755	10.05	9.93	9.91	9.78	9.76	9.57	9.44	9.35
	159	5795	9.75	9.64	9.64	9.62	9.45	9.30	9.25	9.25
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (20)	36	5180	10.95	10.90	10.75	10.73	10.56	10.36	10.32	10.32
	40	5200	10.66	10.53	10.50	10.44	10.42	10.31	10.17	10.08
	48	5240	9.86	9.79	9.74	9.54	9.50	9.38	9.34	9.15
	149	5745	9.53	9.38	9.34	9.22	9.07	8.95	8.86	8.70
	157	5785	9.84	9.72	9.69	9.53	9.50	9.43	9.30	9.19
	165	5825	9.30	9.28	9.22	9.22	9.15	8.96	8.78	8.67
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (40)	38	5190	9.73	9.62	9.52	9.49	9.44	9.35	9.21	9.13
	46	5230	8.71	8.53	8.42	8.25	8.20	8.15	8.15	8.09
	151	5755	9.98	9.88	9.68	9.64	9.63	9.56	9.46	9.40
	159	5795	9.79	9.74	9.72	9.61	9.49	9.34	9.27	9.21
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (80)	42	5210	8.34	8.18	8.02	7.97	7.94	7.75	7.55	7.43
	155	5775	8.84	8.78	8.68	8.49	8.40	8.25	8.19	8.15

Mode	channel	Frequency	Average Power (dBm)-ANT2							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	**11.40**	11.27	11.21	11.19	11.08	10.91	10.72	10.69
	40	5200	11.34	11.32	11.26	11.11	11.02	10.96	10.85	10.77
	48	5240	11.29	11.18	10.99	10.82	10.76	10.71	10.57	10.50
	149	5745	6.85	6.79	6.76	6.72	6.53	6.45	6.27	6.26
	157	5785	8.01	7.88	7.79	7.65	7.64	7.62	7.44	7.43
	165	5825	8.49	8.37	8.33	8.29	8.10	8.01	7.85	7.68
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	10.44	10.32	10.13	10.08	10.07	9.94	9.79	9.67
	40	5200	10.39	10.27	10.22	10.06	9.87	9.86	9.86	9.83
	48	5240	10.23	10.11	10.10	9.97	9.77	9.65	9.59	9.50
	149	5745	11.12	11.01	10.99	10.80	10.74	10.58	10.42	10.36
	157	5785	10.79	10.72	10.60	10.57	10.47	10.28	10.16	10.13
	165	5825	10.38	10.19	10.13	9.95	9.83	9.63	9.54	9.52
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	10.22	10.11	9.96	9.84	9.66	9.54	9.40	9.37
	46	5230	9.93	9.92	9.85	9.76	9.69	9.51	9.41	9.23
	151	5755	11.40	11.20	11.10	10.92	10.85	10.76	10.58	10.50
	159	5795	11.10	10.94	10.77	10.62	10.53	10.36	10.28	10.24
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (20)	36	5180	10.44	10.25	10.17	10.00	9.89	9.79	9.59	9.47
	40	5200	10.50	10.35	10.22	10.13	10.03	9.87	9.81	9.62
	48	5240	10.26	10.07	9.91	9.72	9.70	9.69	9.52	9.43
	149	5745	11.13	11.01	10.91	10.86	10.82	10.66	10.54	10.36
	157	5785	10.83	10.74	10.60	10.45	10.38	10.19	9.99	9.83
	165	5825	10.38	10.19	10.16	9.98	9.90	9.75	9.56	9.39
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (40)	38	5190	10.21	10.06	10.05	10.04	9.97	9.92	9.72	9.66
	46	5230	9.98	9.85	9.69	9.58	9.53	9.41	9.33	9.28
	151	5755	**11.48**	11.32	11.18	11.02	10.98	10.95	10.78	10.69
	159	5795	11.04	10.87	10.75	10.74	10.67	10.60	10.56	10.56
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (80)	42	5210	9.58	9.51	9.49	9.36	9.27	9.18	9.05	8.87
	155	5775	5.55	5.48	5.29	5.26	5.06	4.95	4.78	4.60

Mode	channel	Frequency	Average Power (dBm)-MIMO							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	40	5200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	48	5240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	149	5745	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	157	5785	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	165	5825	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	13.64	13.53	13.39	13.35	13.30	13.19	13.12	12.99
	40	5200	13.44	13.38	13.31	13.19	13.03	13.01	12.99	12.91
	48	5240	12.99	12.84	12.76	12.65	12.49	12.36	12.28	12.21
	149	5745	13.62	13.55	13.51	13.38	13.28	13.13	12.95	12.86
	157	5785	13.22	13.16	13.03	12.96	12.84	12.67	12.55	12.51
	165	5825	12.81	12.62	12.51	12.38	12.29	12.18	12.09	12.05
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	12.89	12.76	12.63	12.55	12.36	12.29	12.13	12.10
	46	5230	12.36	12.35	12.25	12.17	12.12	12.00	11.86	11.72
	151	5755	13.79	13.62	13.56	13.40	13.35	13.22	13.06	12.97
	159	5795	13.49	13.35	13.25	13.16	13.03	12.87	12.81	12.78
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (20)	36	5180	**13.71**	13.60	13.48	13.39	13.25	13.09	12.98	12.93
	40	5200	13.59	13.45	13.37	13.30	13.24	13.11	13.00	12.87
	48	5240	13.07	12.94	12.84	12.64	12.61	12.55	12.44	12.30
	149	5745	13.41	13.28	13.21	13.13	13.04	12.90	12.79	12.62
	157	5785	13.37	13.27	13.18	13.02	12.97	12.84	12.67	12.53
	165	5825	12.88	12.77	12.73	12.63	12.55	12.38	12.20	12.06
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (40)	38	5190	12.99	12.86	12.80	12.78	12.72	12.65	12.48	12.41
	46	5230	12.40	12.25	12.11	11.98	11.93	11.84	11.79	11.74
	151	5755	**13.80**	13.67	13.50	13.39	13.37	13.32	13.18	13.10
	159	5795	13.47	13.35	13.28	13.22	13.13	13.03	12.97	12.95
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (80)	42	5210	12.01	11.91	11.83	11.73	11.67	11.53	11.37	11.22
	155	5775	10.51	10.45	10.32	10.18	10.05	9.92	9.82	9.74

5GHz WIFI-Module WCN6856

Mode	channel	Frequency	Average Power (dBm)-ANT1							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	**12.18**	12.02	11.92	11.87	11.80	11.71	11.51	11.48
	40	5200	12.03	11.84	11.69	11.68	11.59	11.47	11.41	11.37
	48	5240	11.75	11.75	11.62	11.46	11.38	11.29	11.29	11.21
	149	5745	12.77	12.66	12.62	12.53	12.46	12.42	12.32	12.13
	157	5785	12.62	12.57	12.45	12.27	12.08	12.00	11.81	11.71
	165	5825	**12.83**	12.72	12.72	12.60	12.59	12.50	12.43	12.33
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	12.09	12.01	11.89	11.84	11.64	11.55	11.48	11.31
	40	5200	11.93	11.78	11.76	11.76	11.60	11.56	11.37	11.35
	48	5240	11.62	11.49	11.34	11.26	11.20	11.04	11.02	10.95
	149	5745	11.53	11.49	11.42	11.40	11.20	11.10	11.00	10.82
	157	5785	11.45	11.31	11.28	11.17	11.09	10.92	10.90	10.76
	165	5825	11.71	11.54	11.52	11.34	11.16	10.96	10.93	10.86
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	11.16	11.10	10.91	10.85	10.65	10.61	10.43	10.31
	46	5230	10.90	10.83	10.72	10.66	10.66	10.60	10.50	10.49
	151	5755	11.86	11.75	11.55	11.40	11.32	11.13	11.05	11.03
	159	5795	11.68	11.64	11.47	11.44	11.40	11.22	11.12	11.11
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	11.01	10.88	10.68	10.57	10.47	10.30	10.12	9.99
	40	5200	10.87	10.73	10.62	10.53	10.36	10.34	10.27	10.18
	48	5240	10.56	10.39	10.21	10.17	10.09	9.91	9.87	9.81
	149	5745	11.52	11.48	11.38	11.38	11.34	11.14	11.10	10.94
	157	5785	11.46	11.35	11.22	11.08	10.92	10.77	10.59	10.53
	165	5825	11.70	11.60	11.54	11.47	11.38	11.33	11.31	11.13
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	11.18	11.02	10.97	10.85	10.84	10.80	10.71	10.54
	46	5230	10.88	10.82	10.71	10.56	10.42	10.26	10.11	9.96
	151	5755	11.87	11.77	11.76	11.66	11.50	11.39	11.27	11.17
	159	5795	11.70	11.51	11.45	11.44	11.29	11.24	11.20	11.18
			MCS0	MCS1	11.87	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	10.97	10.90	10.75	10.66	10.60	10.50	10.40	10.27
	155	5775	11.75	11.57	11.57	11.37	11.36	11.24	11.24	11.07
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ax (20)	36	5180	11.07	10.91	10.87	10.69	10.52	10.38	10.22	10.14
	40	5200	10.93	10.78	10.72	10.69	10.62	10.42	10.35	10.22
	48	5240	10.62	10.49	10.39	10.30	10.24	10.16	10.04	9.90
	149	5745	11.59	11.56	11.50	11.48	11.31	11.22	11.06	10.88
	157	5785	11.51	11.32	11.25	11.16	11.10	11.04	10.89	10.86

	165	5825	11.79	11.74	11.57	11.52	11.33	11.24	11.20	11.07
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ax (40)	38	5190	11.06	11.01	10.88	10.71	10.62	10.47	10.29	10.22
	46	5230	10.77	10.60	10.50	10.35	10.21	10.12	9.96	9.88
	151	5755	11.77	11.72	11.57	11.43	11.28	11.23	11.15	11.14
	159	5795	11.60	11.40	11.36	11.27	11.19	11.09	11.02	10.89
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ax (80)	42	5210	11.07	11.01	10.92	10.91	10.80	10.63	10.62	10.46
	155	5775	11.84	11.77	11.74	11.70	11.70	11.56	11.47	11.30

Mode	channel	Frequency	Average Power (dBm)-ANT2							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	**12.13**	12.01	11.82	11.81	11.76	11.57	11.48	11.42
	40	5200	11.88	11.70	11.62	11.48	11.42	11.26	11.16	11.08
	48	5240	11.66	11.66	11.58	11.55	11.54	11.53	11.38	11.30
	149	5745	12.00	11.94	11.94	11.91	11.77	11.75	11.60	11.43
	157	5785	12.10	12.03	11.98	11.94	11.90	11.74	11.70	11.61
	165	5825	**12.58**	12.51	12.51	12.37	12.31	12.23	12.18	12.04
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	11.04	10.92	10.84	10.65	10.48	10.44	10.26	10.24
	40	5200	10.84	10.83	10.65	10.61	10.43	10.30	10.22	10.14
	48	5240	10.58	10.58	10.43	10.28	10.18	10.02	9.85	9.85
	149	5745	11.35	11.34	11.20	11.07	11.04	10.98	10.81	10.74
	157	5785	11.45	11.32	11.19	11.09	10.91	10.82	10.76	10.69
	165	5825	11.46	11.39	11.37	11.29	11.09	11.00	10.97	10.96
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	11.23	11.10	10.99	10.79	10.67	10.54	10.51	10.37
	46	5230	10.91	10.72	10.59	10.49	10.42	10.27	10.20	10.07
	151	5755	9.41	9.36	9.31	9.18	9.08	8.92	8.77	8.62
	159	5795	9.09	8.90	8.78	8.73	8.55	8.35	8.33	8.26
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (20)	36	5180	11.07	11.04	10.94	10.91	10.86	10.75	10.60	10.53
	40	5200	10.86	10.69	10.54	10.48	10.43	10.35	10.23	10.22
	48	5240	10.59	10.53	10.51	10.50	10.34	10.14	9.95	9.91
	149	5745	11.24	11.23	11.23	11.07	11.03	11.03	10.85	10.73
	157	5785	11.42	11.41	11.37	11.18	11.18	11.12	10.99	10.84
	165	5825	11.40	11.36	11.22	11.04	11.02	10.98	10.89	10.87
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (40)	38	5190	11.24	11.06	11.05	10.87	10.78	10.78	10.64	10.57
	46	5230	10.94	10.88	10.71	10.63	10.50	10.49	10.40	10.21
	151	5755	11.70	11.70	11.52	11.34	11.28	11.27	11.18	11.01
	159	5795	11.67	11.57	11.37	11.23	11.13	11.08	10.89	10.83
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (80)	42	5210	11.06	11.03	10.90	10.83	10.65	10.55	10.36	10.29
	155	5775	11.63	11.46	11.39	11.26	11.19	11.15	11.14	11.03
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ax (20)	36	5180	11.17	10.98	10.92	10.91	10.77	10.66	10.60	10.50
	40	5200	10.94	10.76	10.60	10.59	10.45	10.44	10.31	10.18
	48	5240	10.70	10.66	10.56	10.46	10.38	10.30	10.13	9.98
	149	5745	11.30	11.29	11.28	11.23	11.11	11.05	11.01	10.96
	157	5785	11.46	11.31	11.19	10.99	10.89	10.80	10.74	10.72
	165	5825	11.45	11.34	11.16	11.09	10.89	10.79	10.79	10.61

			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ax (40)	38	5190	11.17	11.09	11.05	10.94	10.93	10.77	10.75	10.68
	46	5230	10.94	10.87	10.86	10.72	10.54	10.48	10.39	10.22
	151	5755	11.57	11.41	11.39	11.22	11.10	11.09	10.96	10.76
	159	5795	11.54	11.53	11.37	11.29	11.27	11.08	10.91	10.89
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ax (80)	42	5210	11.18	11.01	10.84	10.84	10.66	10.53	10.45	10.40
	155	5775	11.70	11.58	11.43	11.35	11.23	11.17	11.04	10.87

Mode	channel	Frequency	Average Power (dBm)-MIMO							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	40	5200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	48	5240	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	149	5745	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	157	5785	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	165	5825	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	167	5845	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	173	5865	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	177	5885	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	**14.61**	14.51	14.41	14.30	14.11	14.04	13.92	13.82
	40	5200	14.43	14.34	14.25	14.23	14.06	13.99	13.84	13.80
	48	5240	14.14	14.07	13.92	13.81	13.73	13.57	13.48	13.45
	149	5745	14.45	14.43	14.32	14.25	14.13	14.05	13.92	13.79
	157	5785	14.46	14.33	14.25	14.14	14.01	13.88	13.84	13.74
	165	5825	14.60	14.48	14.46	14.33	14.14	13.99	13.96	13.92
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	14.21	14.11	13.96	13.83	13.67	13.59	13.48	13.35
	46	5230	13.92	13.79	13.67	13.59	13.55	13.45	13.36	13.30
	151	5755	13.82	13.73	13.58	13.44	13.35	13.17	13.07	13.00
	159	5795	13.59	13.49	13.34	13.30	13.22	13.03	12.96	12.93
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (20)	36	5180	14.05	13.97	13.82	13.75	13.68	13.54	13.38	13.28
	40	5200	13.88	13.72	13.59	13.52	13.41	13.36	13.26	13.21
	48	5240	13.59	13.47	13.37	13.35	13.23	13.04	12.92	12.87
	149	5745	14.39	14.37	14.32	14.24	14.20	14.10	13.99	13.85
	157	5785	14.45	14.39	14.31	14.14	14.06	13.96	13.80	13.70
	165	5825	14.56	14.49	14.39	14.27	14.21	14.17	14.12	14.01
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (40)	38	5190	14.22	14.05	14.02	13.87	13.82	13.80	13.69	13.57
	46	5230	13.92	13.86	13.72	13.61	13.47	13.39	13.27	13.10
	151	5755	**14.80**	14.75	14.65	14.51	14.40	14.34	14.24	14.10
	159	5795	14.70	14.55	14.42	14.35	14.22	14.17	14.06	14.02
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (80)	42	5210	14.03	13.98	13.84	13.76	13.64	13.54	13.39	13.29
	155	5775	14.70	14.53	14.49	14.33	14.29	14.21	14.20	14.06
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ax (20)	36	5180	14.13	13.96	13.91	13.81	13.66	13.53	13.42	13.33
	40	5200	13.95	13.78	13.67	13.65	13.55	13.44	13.34	13.21
	48	5240	13.67	13.59	13.49	13.39	13.32	13.24	13.10	12.95

	149	5745	14.46	14.44	14.40	14.37	14.22	14.15	14.05	13.93
	157	5785	14.50	14.33	14.23	14.09	14.01	13.93	13.83	13.80
	165	5825	14.63	14.55	14.38	14.32	14.13	14.03	14.01	13.86
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ax (40)	38	5190	14.13	14.06	13.98	13.84	13.79	13.63	13.54	13.47
	46	5230	13.87	13.75	13.69	13.55	13.39	13.31	13.19	13.06
	151	5755	14.68	14.58	14.49	14.34	14.20	14.17	14.07	13.96
	159	5795	14.58	14.48	14.38	14.29	14.24	14.10	13.98	13.90
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ax (80)	42	5210	14.14	14.02	13.89	13.89	13.74	13.59	13.55	13.44
	155	5775	14.78	14.69	14.60	14.54	14.48	14.38	14.27	14.10

13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

1. Lab use the head liquid with a separation of 0mm at flat phantom to test;

2. For SAR testing, the device was controlled by software to test at reference fixed frequency points.

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. Per KDB 248227 D01 v02r02 Chapter 5.2.2,when SAR measurement is required for 2.4GHz 802.11g/n OFDM configurations, the measurement and test reducing procedures for OFDM are applied. SAR is not required for the following 2.4 GHz OFDM conditions.

   (1) When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.

   (2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is≤1.2 W/kg,

4. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

   (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.

   (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent

test configuration.

(3) When the specified maximum output power is same for both UNII 1 and UNII 2A,begin SAR measuremengs in UNII 2A with the channel with the highest measured output power.If the report SAR for UNII 2A is <1.2W/kg,SAR is nor required for UNII 1;otherwise treat the remaining bands separately and test them independently for SAR.

(4) When the specified maximum output power different between UNII 1 and UNII 2A,begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤1.2W/kg,testing for the band with the lower specicied output power is not required;otherwise test is remaining separately for SAR;

5. Per KDB616217 D04 v01r02, The antennas in tablets are typically located near the back (bottom) surface and/or along the edges of the devices; therefore, SAR evaluation is required for these configurations. Exposures from antennas through the front (top) surface of the display section of a full-size tablet, away from the edges, are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary, except for tablets that are designed to require continuous operations with the hand(s) next to the antenna(s).

6. 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)]

13.1.3. SAR Test Results Summary

SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM										
Test Mode: 2.4GHz 802.11b										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. Output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit W/kg**
Module AP6398P-ANT1										
Body back	DTS	1	2412	-0.73	0.872	13.00	12.77	1.054	0.919	1.6
Body back	DTS	6	2437	-0.79	**0.923**	13.00	12.82	1.042	0.962	1.6
Body back	DTS	11	2462	0.93	0.892	13.00	12.65	1.084	**0.967**	1.6
Body front	DTS	6	2437	-0.73	0.297	13.00	12.82	1.042	0.310	1.6
Edge 1 (Top)	DTS	1	2412	-1.21	0.777	13.00	12.82	1.042	0.810	1.6
Edge 1 (Top)	DTS	6	2437	0.40	0.788	13.00	12.82	1.042	0.821	1.6
Edge 1 (Top)	DTS	11	2462	-0.51	0.798	13.00	12.82	1.042	0.832	1.6
Edge 2 (Right)	DTS	6	2437	0.34	0.249	13.00	12.82	1.042	0.260	1.6
Module AP6398P-ANT2										
Body back	DTS	6	2437	-0.92	0.120	11.20	11.12	1.019	0.122	1.6
Body front	DTS	6	2437	-0.76	0.235	11.20	11.12	1.019	0.239	1.6
Edge 2 (Right)	DTS	1	2412	0.70	0.648	12.30	12.20	1.023	0.663	1.6
Edge 2 (Right)	DTS	6	2437	-0.99	0.656	11.20	11.12	1.019	0.668	1.6
Edge 2 (Right)	DTS	11	2462	-0.04	**0.668**	11.20	10.01	1.315	**0.879**	1.6
Edge 3 (Bottom)	DTS	6	2437	0.23	0.055	11.20	11.12	1.019	0.056	1.6
Module WCN6856-ANT1										
Body back	DTS	6	2437	0.71	0.194	12.20	11.59	1.151	0.223	1.6
Body front	DTS	6	2437	-0.73	0.149	12.20	11.59	1.151	0.171	1.6
Edge 1 (Top)	DTS	6	2437	1.07	0.133	12.20	11.59	1.151	0.153	1.6
Edge 4 (Left)	DTS	1	2412	-0.33	0.232	12.20	12.10	1.023	0.237	1.6
Edge 4 (Left)	DTS	6	2437	0.28	0.216	12.20	11.59	1.151	0.249	1.6
Edge 4 (Left)	DTS	11	2462	-0.36	**0.239**	12.20	11.82	1.091	**0.261**	1.6
Module WCN6856-ANT2										
Body back	DTS	6	2437	-0.61	0.106	12.10	11.48	1.153	0.122	1.6
Body front	DTS	6	2437	-0.76	0.232	12.10	11.48	1.153	0.268	1.6
Edge 3 (Bottom)	DTS	6	2437	1.02	0.037	12.10	11.48	1.153	0.043	1.6
Edge 4 (Left)	DTS	1	2412	-0.30	0.629	12.10	12.05	1.012	0.636	1.6
Edge 4 (Left)	DTS	6	2437	-0.49	0.636	12.10	11.48	1.153	0.734	1.6
Edge 4 (Left)	DTS	11	2462	0.42	**0.646**	12.10	11.25	1.216	**0.786**	1.6

SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. Output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit W/kg**
Test Mode: 2.4GHz 802.11n20										
Module AP6398P-ANT1										
Body back	DTS	1	2412	-0.73	0.704	11.80	11.71	1.021	0.719	1.6
Body back	DTS	6	2437	0.90	0.612	11.80	11.44	1.086	0.665	1.6
Body back	DTS	11	2462	-0.61	**0.727**	11.80	11.06	1.186	**0.862**	1.6
Body front	DTS	6	2437	-0.65	0.227	11.80	11.44	1.086	0.247	1.6
Edge 1 (Top)	DTS	6	2437	-0.77	0.597	11.80	11.44	1.086	0.649	1.6
Edge 2 (Right)	DTS	6	2437	0.95	0.188	11.80	11.44	1.086	0.204	1.6
Module AP6398P-ANT2										
Body back	DTS	6	2437	-1.12	0.101	10.60	10.53	1.016	0.103	1.6
Body front	DTS	6	2437	0.18	0.183	10.60	10.53	1.016	0.186	1.6
Edge 2 (Right)	DTS	1	2412	-0.21	0.484	11.80	11.79	1.002	0.485	1.6
Edge 2 (Right)	DTS	6	2437	-0.42	0.489	10.60	10.53	1.016	0.497	1.6
Edge 2 (Right)	DTS	11	2462	-0.96	**0.497**	10.60	9.57	1.268	**0.630**	1.6
Edge 3 (Bottom)	DTS	6	2437	0.16	0.039	10.60	10.53	1.016	0.040	1.6
Test Mode: 2.4GHz 802.11n20										
Module WCN6856-ANT1										
Body back	DTS	6	2437	-0.67	0.140	11.00	10.49	1.125	0.157	1.6
Body front	DTS	6	2437	-0.73	0.122	11.00	10.49	1.125	0.137	1.6
Edge 1 (Top)	DTS	6	2437	0.75	0.105	11.00	10.49	1.125	0.118	1.6
Edge 4 (Left)	DTS	1	2412	-0.87	0.173	11.00	10.86	1.033	0.179	1.6
Edge 4 (Left)	DTS	6	2437	-0.92	0.174	11.00	10.49	1.125	**0.196**	1.6
Edge 4 (Left)	DTS	11	2462	0.12	**0.178**	11.00	10.77	1.054	0.188	1.6
Module WCN6856-ANT2										
Body back	DTS	6	2437	-0.82	0.084	10.80	10.23	1.140	0.096	1.6
Body front	DTS	6	2437	0.93	0.183	10.80	10.23	1.140	0.209	1.6
Edge 3 (Bottom)	DTS	6	2437	-0.30	0.029	10.80	10.23	1.140	0.033	1.6
Edge 4 (Left)	DTS	1	2412	0.35	0.459	10.80	10.79	1.002	0.460	1.6
Edge 4 (Left)	DTS	6	2437	-0.24	0.465	10.80	10.23	1.140	0.530	1.6
Edge 4 (Left)	DTS	11	2462	-1.01	**0.469**	10.80	10.15	1.161	**0.545**	1.6

Note:
·When the 1-g SAR is ≤ 0.8W/kg, testing for low and high channel is optional.
·The test separation of all above table is 0mm.
·Plots are only shown for the bold markered worst case SAR results

SAR MEASUREMENT				
Depth of Liquid (cm):>15				
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM				
Position	**Scaled SAR (1g) (W/kg)-ANT1**	**Scaled SAR (1g) (W/kg)-ANT2**	**Scaled SAR (1g) (W/kg)-MIMO**	**Limit W/kg**
Test Mode:2.4GHz 802.11n20				
Module AP6398P-MIMO				
Body back	0.862	0.103	**0.965**	1.6
Body front	0.247	0.186	0.433	1.6
Edge 2 (Right)	0.204	0.630	0.834	1.6
Test Mode: 2.4GHz 802.11n20				
Module WCN6856-MIMO				
Body back	0.157	0.096	0.253	1.6
Body front	0.137	0.209	0.346	1.6
Edge 2 (Right)	0.196	0.545	**0.741**	1.6

SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM									
Test Mode: 5.2GHz 802.11a									
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. Output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Module AP6398P-ANT1									
Body back	36	5180	-0.79	0.636	12.50	12.44	1.014	0.645	1.6
Body back	40	5200	-0.65	0.632	10.50	10.42	1.019	0.644	1.6
Body back	48	5240	0.73	**0.770**	10.50	9.67	1.211	**0.932**	1.6
Body front	40	5200	-0.82	0.221	10.50	10.42	1.019	0.225	1.6
Edge 1 (Top)	40	5200	0.14	0.455	10.50	10.42	1.019	0.463	1.6
Edge 2 (Right)	40	5200	-0.26	0.385	10.50	10.42	1.019	0.392	1.6
Module AP6398P-ANT2									
Body back	40	5200	-0.73	0.323	11.50	11.34	1.038	0.335	1.6
Body front	40	5200	-0.65	0.634	11.50	11.34	1.038	0.658	1.6
Edge 2 (Right)	36	5180	0.65	0.935	11.50	11.40	1.023	0.957	1.6
Edge 2 (Right)	40	5200	-0.89	1.004	11.50	11.34	1.038	1.042	1.6
Edge 2 (Right)	48	5240	-0.06	**1.140**	11.50	11.29	1.050	**1.196**	1.6
Edge 3 (Bottom)	40	5200	0.40	0.192	11.50	11.34	1.038	0.199	1.6
Module WCN6856-ANT1									
Body back	40	5200	-0.70	0.381	12.20	12.03	1.040	0.396	1.6
Body front	40	5200	0.90	0.301	12.20	12.03	1.040	0.313	1.6
Edge 1 (Top)	40	5200	-0.87	0.359	12.20	12.03	1.040	0.373	1.6
Edge 4 (Left)	36	5180	-0.87	0.376	12.20	12.18	1.005	0.378	1.6
Edge 4 (Left)	40	5200	-0.22	0.438	12.20	12.03	1.040	0.455	1.6
Edge 4 (Left)	48	5240	0.19	**0.468**	12.20	11.75	1.109	**0.519**	1.6
Module WCN6856-ANT2									
Body back	40	5200	-0.69	0.690	12.20	11.88	1.076	0.743	1.6
Body front	36	5180	0.70	0.825	12.20	12.13	1.016	0.838	1.6
Body front	40	5200	-0.72	0.852	12.20	11.88	1.076	0.917	1.6
Body front	48	5240	-0.65	1.013	12.00	11.66	1.081	1.095	1.6
Edge 3 (Bottom)	40	5200	0.62	0.144	12.20	11.88	1.076	0.155	1.6
Edge 4 (Left)	36	5180	-0.93	1.261	12.20	12.13	1.016	1.281	1.6
Edge 4 (Left)	40	5200	0.27	**1.356**	12.20	11.88	1.076	**1.460**	1.6
Edge 4 (Left)	48	5240	-0.26	1.348	12.00	11.66	1.081	1.458	1.6
Edge 4 (Left)+Ear.	36	5180	-0.17	1.138	12.20	12.13	1.016	1.156	1.6
Edge 4 (Left)+Ear.	40	5200	-0.81	1.210	12.20	11.88	1.076	1.303	1.6
Edge 4 (Left)+Ear.	48	5240	0.29	1.251	12.00	11.66	1.081	1.353	1.6

SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM									
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. Output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Test Mode: 5.2GHz 802.11 ac20									
Module AP6398P-ANT1									
Body back	36	5180	-0.80	0.635	11.00	10.95	1.012	0.642	1.6
Body back	40	5200	0.69	0.722	11.00	10.66	1.081	0.781	1.6
Body back	48	5240	-0.87	**0.783**	11.00	9.86	1.300	**1.018**	1.6
Body front	40	5200	-0.76	0.211	11.00	10.66	1.081	0.228	1.6
Edge 1 (Top)	40	5200	-0.86	0.349	11.00	10.66	1.081	0.377	1.6
Edge 2 (Right)	40	5200	0.81	0.303	11.00	10.66	1.081	0.328	1.6
Module AP6398P-ANT2									
Body back	40	5200	-0.83	0.370	10.60	10.50	1.023	0.379	1.6
Body front	40	5200	-0.71	0.607	10.60	10.50	1.023	0.621	1.6
Edge 2 (Right)	36	5180	0.78	1.186	10.60	10.44	1.038	1.231	1.6
Edge 2 (Right)	40	5200	-0.64	1.193	10.60	10.50	1.023	1.221	1.6
Edge 2 (Right)	48	5240	-1.01	**1.230**	10.30	10.26	1.009	**1.241**	1.6
Edge 3 (Bottom)	40	5200	0.02	0.174	10.60	10.50	1.023	0.178	1.6
Edge 2 (Right)+Ear.	36	5180	-0.31	1.194	10.60	10.44	1.038	1.239	1.6
Edge 2 (Right)+Ear.	40	5200	-0.33	1.199	10.60	10.50	1.023	1.227	1.6
Edge 2 (Right)+Ear.	48	5240	0.90	1.213	10.30	10.26	1.009	1.224	1.6
Test Mode: 5.2GHz 802.11n20									
Module WCN6856-ANT1									
Body back	40	5200	-0.71	0.489	12.10	11.93	1.040	0.509	1.6
Body front	40	5200	-0.64	0.290	12.10	11.93	1.040	0.302	1.6
Edge 1 (Top)	36	5180	-1.11	0.500	12.10	12.09	1.002	0.501	1.6
Edge 1 (Top)	40	5200	0.21	0.551	12.10	11.93	1.040	0.573	1.6
Edge 1 (Top)	48	5240	-0.15	**0.618**	12.10	11.62	1.117	**0.690**	1.6
Edge 4 (Left)	40	5200	0.20	0.295	12.10	11.93	1.040	0.307	1.6
Module WCN6856-ANT2									
Body back	40	5200	-0.70	0.432	11.10	10.84	1.062	0.459	1.6
Body front	40	5200	0.82	0.583	11.10	10.84	1.062	0.619	1.6
Edge 3 (Bottom)	40	5200	-0.92	0.093	11.10	10.84	1.062	0.099	1.6
Edge 4 (Left)	36	5180	-0.73	1.061	11.10	11.04	1.014	1.076	1.6
Edge 4 (Left)	40	5200	-0.69	1.055	11.10	10.84	1.062	1.120	1.6
Edge 4 (Left)	48	5240	1.01	**1.086**	11.00	10.58	1.102	**1.196**	1.6

Note:
·When the 1-g SAR is ≤ 0.8W/kg, testing for low and high channel is optional.
·The test separation of all above table is 0mm.
·Plots are only shown for the bold markered worst case SAR results

SAR MEASUREMENT				
Depth of Liquid (cm):>15				
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM				
Position	**Scaled SAR (1g) (W/kg)-ANT1**	**Scaled SAR (1g) (W/kg)-ANT2**	**Scaled SAR (1g) (W/kg)-MIMO**	**Limit W/kg**
Test Mode: 5.2GHz 802.11 ac20				
Module AP6398P-MIMO				
Body back	1.018	0.379	1.397	1.6
Body front	0.228	0.621	0.849	1.6
Edge 2 (Right)	0.328	1.241	**1.569**	1.6
Test Mode: 5.2GHz 802.11 n20				
Module WCN6856-MIMO				
Body back	0.509	0.459	0.968	1.6
Body front	0.302	0.619	0.921	1.6
Edge 4 (Left)	0.307	1.196	**1.503**	1.6

SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM									
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. Output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Test Mode: 5.8GHz 802.11a									
Module AP6398P-ANT1									
Body back	149	5745	-0.89	1.066	10.10	10.07	1.007	1.073	1.6
Body back	157	5785	0.62	1.069	10.10	9.73	1.089	1.164	1.6
Body back	165	5825	-0.87	1.093	10.10	9.25	1.216	1.329	1.6
Body front	157	5785	-0.94	0.419	10.10	9.73	1.089	0.456	1.6
Edge 1 (Top)	149	5745	0.03	1.138	10.10	10.07	1.007	1.146	1.6
Edge 1 (Top)	157	5785	-0.19	1.153	10.10	9.73	1.089	1.256	1.6
Edge 1 (Top)	165	5825	0.31	**1.160**	10.10	9.25	1.216	**1.411**	1.6
Edge 2 (Right)	157	5785	0.89	0.558	10.10	9.73	1.089	0.608	1.6
Test Mode: 5.8GHz 802.11ac40									
Module AP6398P-ANT2									
Body back	151	5755	-0.70	0.290	11.50	11.48	1.005	0.291	1.6
Body front	151	5755	-0.83	0.290	11.50	11.48	1.005	0.291	1.6
Edge 2 (Right)	151	5755	-0.89	1.115	11.50	11.48	1.005	1.120	1.6
Edge 2 (Right)	159	5795	0.04	**1.129**	11.10	11.04	1.014	**1.145**	1.6
Edge 3 (Bottom)	151	5755	0.17	0.363	11.50	11.48	1.005	0.365	1.6
Test Mode: 5.8GHz 802.11a									
Module WCN6856-ANT1									
Body back	149	5745	-0.81	0.771	12.90	12.77	1.030	0.794	1.6
Body back	157	5785	-0.61	0.779	12.90	12.62	1.067	0.831	1.6
Body back	165	5825	0.69	0.785	12.90	12.83	1.016	0.798	1.6
Body front	157	5785	-0.85	0.612	12.90	12.62	1.067	0.653	1.6
Edge 1 (Top)	149	5745	0.18	0.833	12.90	12.77	1.030	0.858	1.6
Edge 1 (Top)	157	5785	-0.22	0.853	12.90	12.62	1.067	**0.910**	1.6
Edge 1 (Top)	165	5825	-0.43	**0.859**	12.90	12.83	1.016	0.873	1.6
Edge 4 (Left)	149	5745	0.82	0.792	12.90	12.77	1.030	0.816	1.6
Edge 4 (Left)	157	5785	-0.27	0.801	12.90	12.62	1.067	0.854	1.6
Edge 4 (Left)	165	5825	0.07	0.771	12.90	12.83	1.016	0.784	1.6
Test Mode: 5.8GHz 802.11a									
Module WCN6856-ANT2									
Body back	157	5785	-0.91	0.583	12.10	12.10	1.000	0.583	1.6
Body front	149	5745	-0.11	0.822	12.10	12.00	1.023	0.841	1.6
Body front	157	5785	0.98	0.822	12.10	12.10	1.000	0.822	1.6
Body front	165	5825	-0.19	0.837	12.60	12.58	1.005	0.841	1.6
Edge 3 (Bottom)	157	5785	-0.19	0.039	12.10	12.10	1.000	0.039	1.6
Edge 4 (Left)	149	5745	0.40	1.409	12.10	12.00	1.023	**1.442**	1.6
Edge 4 (Left)	157	5785	-1.03	1.351	12.10	12.10	1.000	1.351	1.6
Edge 4 (Left)	165	5825	-0.12	**1.425**	12.60	12.58	1.005	1.432	1.6
Edge 4 (Left)+Ear.	149	5745	-0.24	1.386	12.10	12.00	1.023	1.418	1.6
Edge 4 (Left)+Ear.	157	5785	0.04	1.391	12.10	12.10	1.000	1.391	1.6
Edge 4 (Left)+Ear.	165	5825	0.31	1.410	12.60	12.58	1.005	1.417	1.6

SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM									
Test Mode: 5.8GHz 802.11ac40									
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. Output Power (dBm)**	**Tune-up Scaling factor**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Module AP6398P-ANT1									
Body back	151	5755	-0.89	**0.707**	10.00	9.98	1.005	**0.710**	1.6
Body back	159	5795	0.61	0.606	10.00	9.79	1.050	0.636	1.6
Body front	151	5755	0.88	0.185	10.00	9.98	1.005	0.186	1.6
Edge 1 (Top)	151	5755	0.66	0.381	10.00	9.98	1.005	0.383	1.6
Edge 2 (Right)	151	5755	-0.82	0.408	10.00	9.98	1.005	0.410	1.6
Module AP6398P-ANT2									
Body back	151	5755	-0.70	0.290	11.50	11.48	1.005	0.291	1.6
Body front	151	5755	-0.83	0.290	11.50	11.48	1.005	0.291	1.6
Edge 2 (Right)	151	5755	-0.89	1.115	11.50	11.48	1.005	1.120	1.6
Edge 2 (Right)	159	5795	0.04	**1.129**	11.10	11.04	1.014	**1.145**	1.6
Edge 3 (Bottom)	151	5755	0.17	0.363	11.50	11.48	1.005	0.365	1.6
Module WCN6856-ANT1									
Body back	151	5755	-0.85	0.501	11.90	11.87	1.007	0.504	1.6
Body front	151	5755	0.69	0.522	11.90	11.87	1.007	0.526	1.6
Edge 1 (Top)	151	5755	-0.91	0.701	11.90	11.87	1.007	0.706	1.6
Edge 1 (Top)	159	5795	0.83	**0.764**	11.90	11.70	1.047	**0.800**	1.6
Edge 4 (Left)	151	5755	-0.10	0.609	11.90	11.87	1.007	0.613	1.6
Module WCN6856-ANT2									
Body back	151	5755	-0.62	0.273	11.80	11.70	1.023	0.279	1.6
Body front	151	5755	0.81	0.325	11.80	11.70	1.023	0.333	1.6
Edge 3 (Bottom)	151	5755	-0.95	0.045	11.80	11.70	1.023	0.046	1.6
Edge 4 (Left)	151	5755	-0.31	0.604	11.80	11.70	1.023	0.618	1.6
Edge 4 (Left)	159	5795	0.24	**0.723**	11.80	11.67	1.030	**0.745**	1.6

Note:
·When the 1-g SAR is ≤ 0.8W/kg, testing for low and high channel is optional.
·The test separation of all above table is 0mm.
·Plots are only shown for the bold markered worst case SAR results

SAR MEASUREMENT				
Depth of Liquid (cm):>15				
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM				
Position	**Scaled SAR (1g) (W/kg)-ANT1**	**Scaled SAR (1g) (W/kg)-ANT2**	**Scaled SAR (1g) (W/kg)-MIMO**	**Limit W/kg**
Test Mode: 5.8GHz 802.11ac40				
Module AP6398P-MIMO				
Body back	0.710	0.291	1.001	1.6
Body front	0.186	0.291	0.477	1.6
Edge 2 (Right)	0.410	1.145	**1.555**	1.6
Test Mode: 5.8GHz 802.11ac40				
Module WCN6856-MIMO				
Body back	0.504	0.279	0.783	1.6
Body front	0.526	0.333	0.859	1.6
Edge 4 (Left)	0.613	0.745	**1.358**	1.6

Repeated SAR									
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM									
Position	**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**
Test Mode: **Module AP6398P-ANT1-**2.4GHz 802.11b &5.8GHz 802.11a									
Body back	6	2437	-0.12	0.889	--	--	--	--	1.6
Edge 1 (Top)	165	5825	-0.31	1.149	--	--	--	--	1.6
Test Mode: **Module AP6398P-ANT2-**5.2GHz 802.11a&5.2GHz 802.11 ac20&5.8GHz 802.11ac40									
Edge 2 (Right)	48	5240	0.11	1.150	--	--	--	--	1.6
Edge 2 (Right)	48	5240	-0.10	1.234	--	--	--	--	1.6
Edge 2 (Right)	165	5825	0.21	1.107	--	--	--	--	1.6
Test Mode: **WCN6856-ANT1-**5.8GHz 802.11a&5.8GHz 802.11ac40									
Edge 1 (Top)	165	5825	0.09	1.340	--	--	--	--	1.6
Edge 1 (Top)	165	5825	0.18	0.771	--	--	--	--	1.6
Test Mode: **WCN6856-ANT2-**5.2GHz 802.11a&5.2GHz 802.11 ac20&5.8GHz 802.11a									
Edge 4 (Left)	40	5200	0.13	1.340	--	--	--	--	1.6
Edge 4 (Left)	48	5240	0.20	1.074	--	--	--	--	1.6
Edge 4 (Left)	165	5825	0.16	1.425	--	--	--	--	1.6

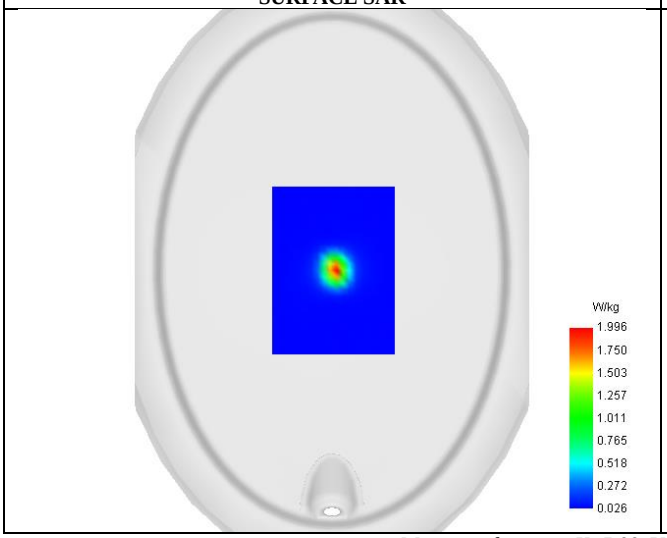
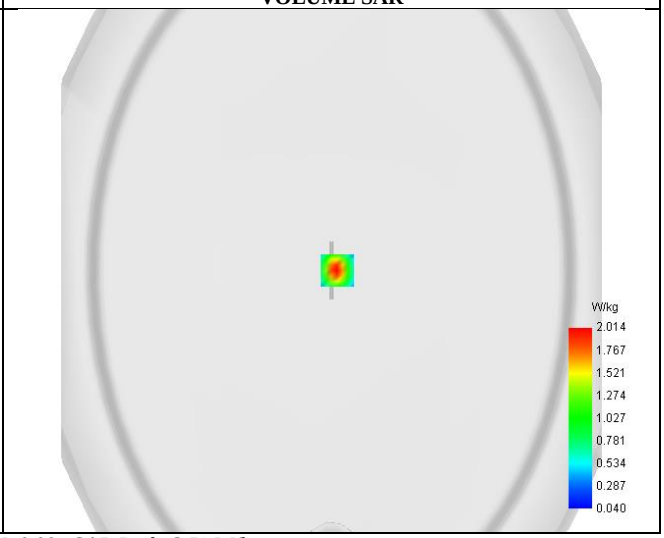
The second repeated SAR judge reference							
Product: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM							
Band	**Position**	**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
Test Mode: **Module AP6398P-ANT1-**2.4GHz 802.11b &5.8GHz 802.11a							
2.4GHz 802.11b	Body back	6	2437	0.923	0.889	1.038	<1.2
5.8GHz 802.11a	Edge 1 (Top)	165	5825	1.160	1.149	1.010	<1.2
Test Mode: **Module AP6398P-ANT2-**5.2GHz 802.11a&5.2GHz 802.11 ac20							
5.2GHz 802.11a	Edge 2 (Right)	48	5240	1.140	1.150	1.009	<1.2
5.8GHz 802.11a	Edge 2 (Right)	48	5240	1.230	1.234	1.003	<1.2
.8GHz 802.11ac40	Edge 2 (Right)	165	5825	1.129	1.107	1.020	<1.2
Test Mode: **WCN6856-ANT1-**5.8GHz 802.11a&5.8GHz 802.11ac40							
5.2GHz 802.11a	Edge 1 (Top)	165	5825	0.859	0.839	1.024	<1.2
5.8GHz 802.11ac40	Edge 1 (Top)	165	5825	0.764	0.771	1.009	<1.2
Test Mode: **WCN6856-ANT2-**5.2GHz 802.11a&5.2GHz 802.11 ac20&5.8GHz 802.11a							
5.2GHz 802.11a	Edge 2 (Right)	48	5240	1.356	1.340	1.012	<1.2
5.2GHz 802.11 ac20	Edge 4 (Left)	48	5240	1.086	1.074	1.011	<1.2
5.8GHz 802.11a	Edge 4 (Left)	165	5825	1.425	1.425	1.000	<1.2

APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: SID 2450
Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.29
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ =1.76 mho/m; εr =38.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

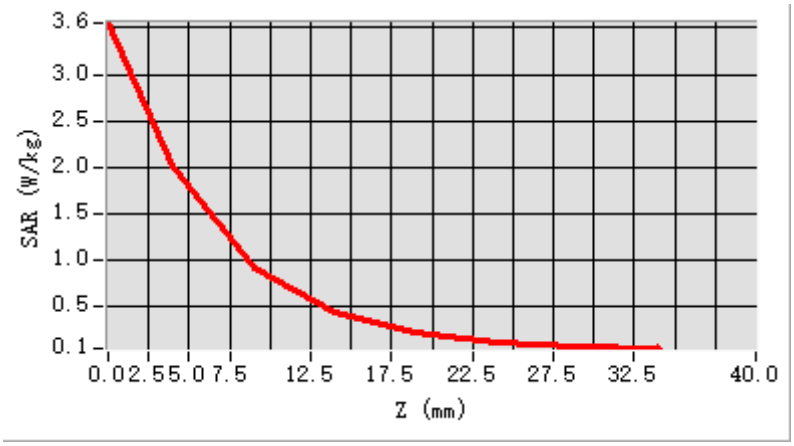
Configuration/System Check 2450 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2450 MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

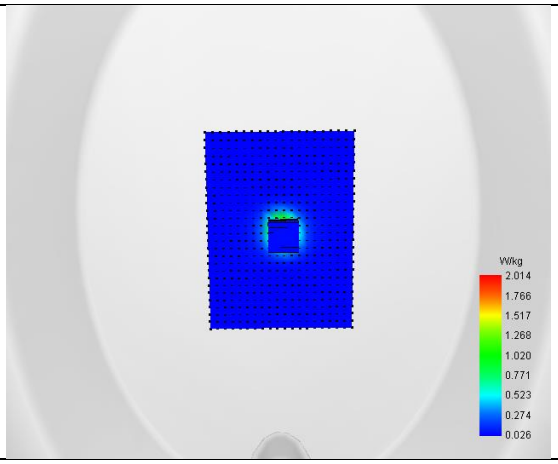
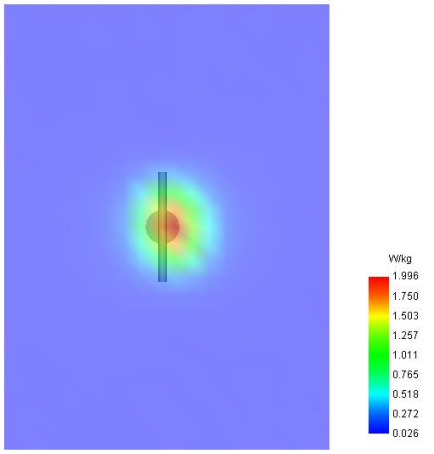
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=0.00 ; SAR Peak: 3.52 W/kg

SAR 10g (W/Kg)	0.802
SAR 1g (W/Kg)	1.835
Variation (%)	-4.750
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	45.637160

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.528	2.004	0.897	0.423	0.193	0.107	0.049

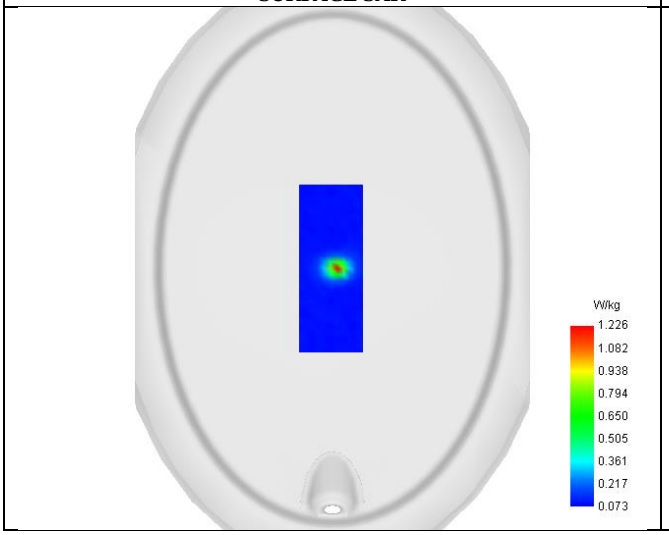
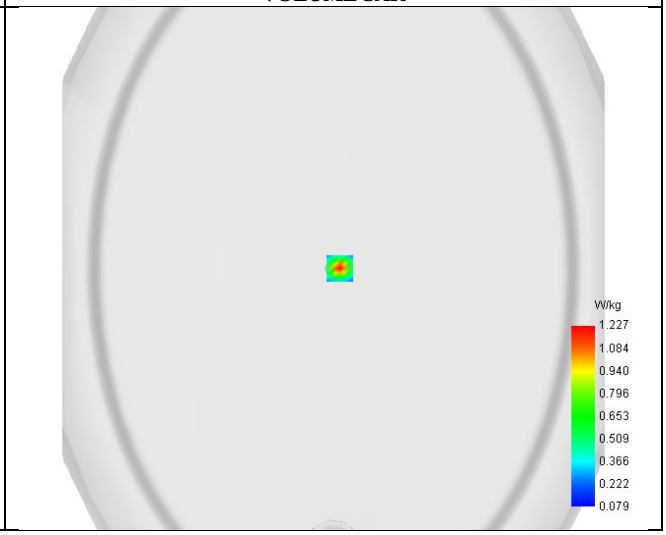


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
System Check Head 5200 MHz
DUT: Dipole 5000MHz Type: SID5000
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.54
Frequency: 5200 MHz; Medium parameters used: f = 5250 MHz; σ =4.52 mho/m; εr =35.71; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=10dBm

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

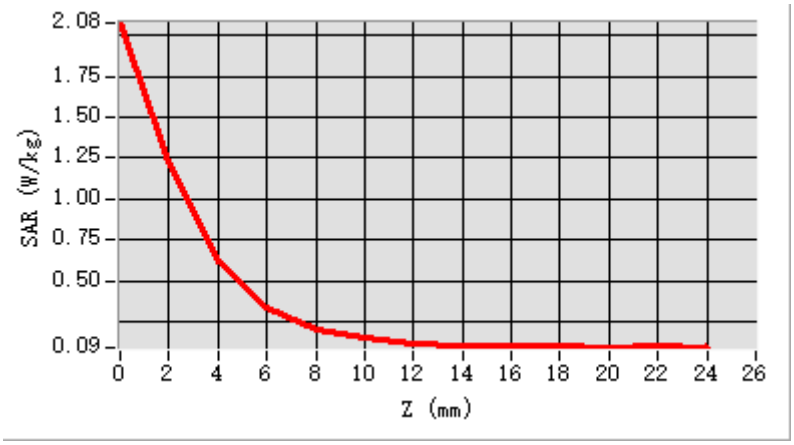
Configuration/System Check 5200 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

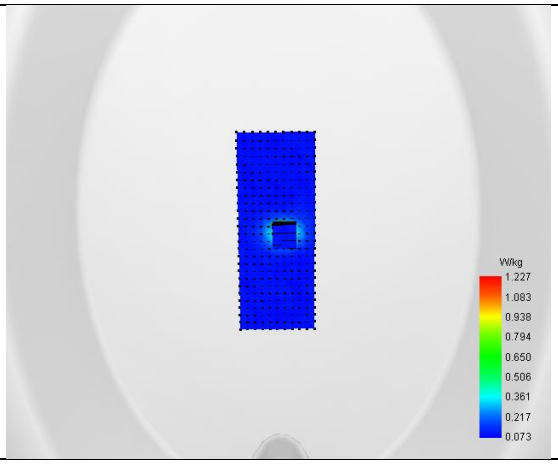
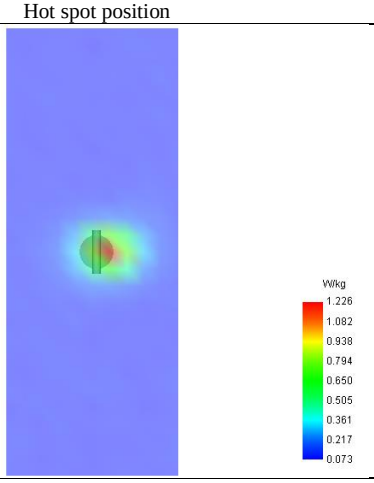
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=0.00 ; SAR Peak: 2.25 W/kg

SAR 10g (W/Kg)	0.243
SAR 1g (W/Kg)	0.727
Variation (%)	-3.690
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	49.868847

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.094	1.244	0.630	0.358	0.213	0.177	0.137	0.120	0.129	0.115	0.108	0.105

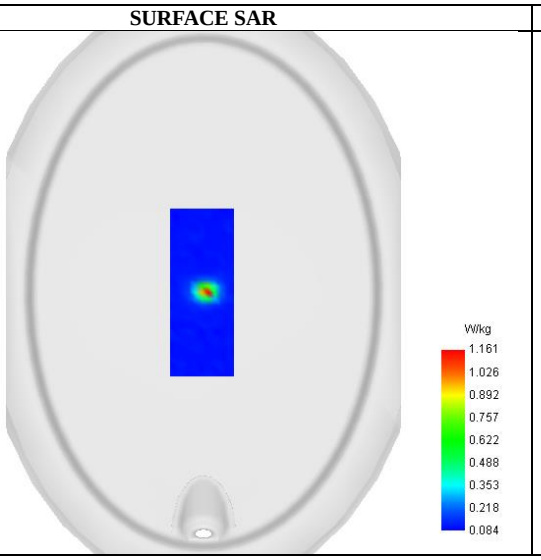
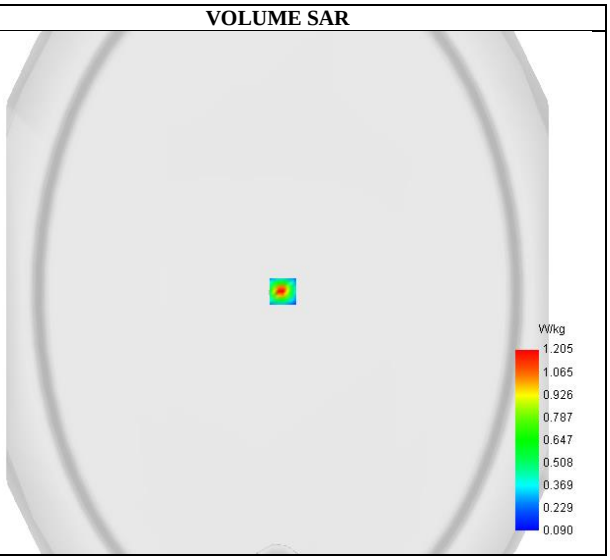


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SID5000
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.41
Frequency: 5800 MHz; Medium parameters used: f = 5800 MHz; σ =5.29 mho/m; εr =35.69; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

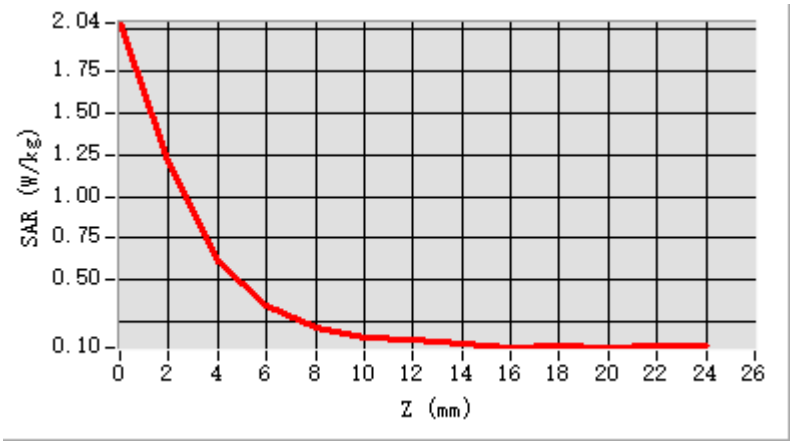
Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

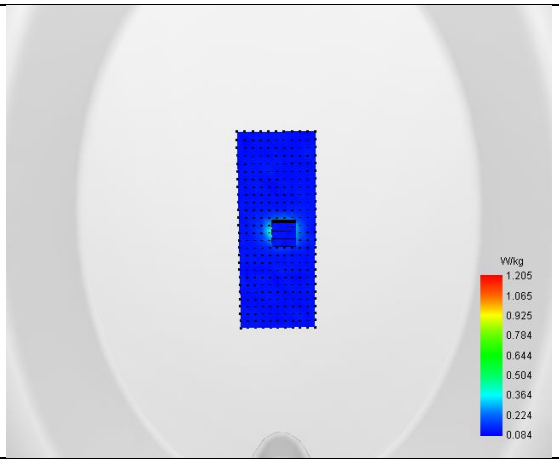
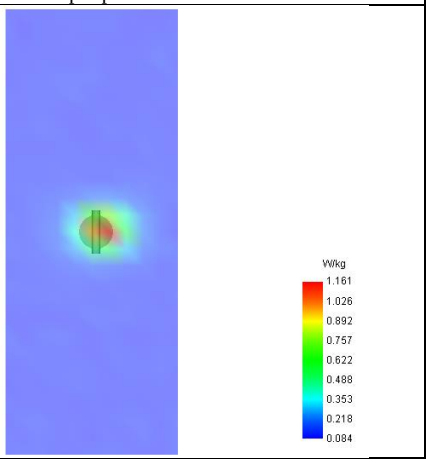
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=1.00 ; SAR Peak: 2.29 W/kg

SAR 10g (W/Kg)	0.228
SAR 1g (W/Kg)	0.704
Variation (%)	6.500
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.803933

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.011	1.196	0.602	0.327	0.201	0.149	0.122	0.105	0.091	0.099	0.087	0.109



3D screen shot	Hot spot position
	

APPENDIX B. SAR MEASUREMENT DATA

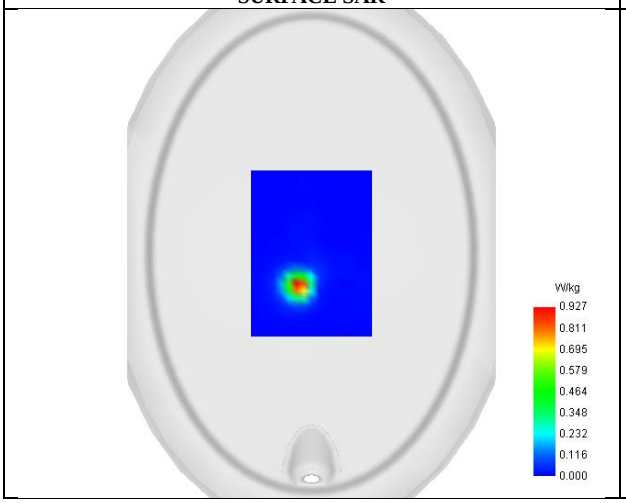
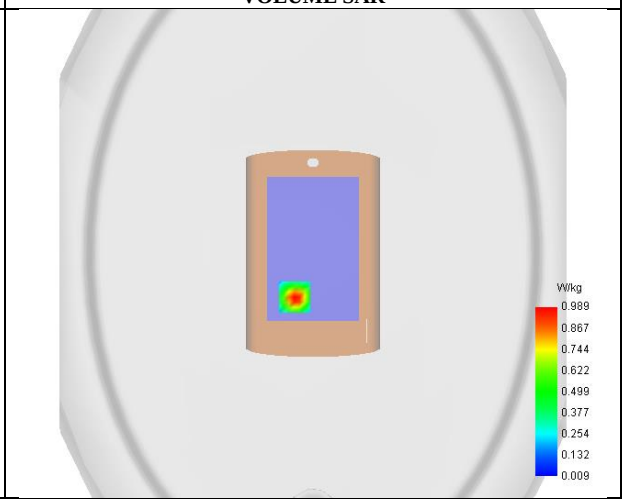
2.4GHz
Module AP6398P-ANT1
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11b Mid- Body back
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ= 1.75mho/m; ε_r =39.12; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11b Mid- Body back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Mid- Body back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

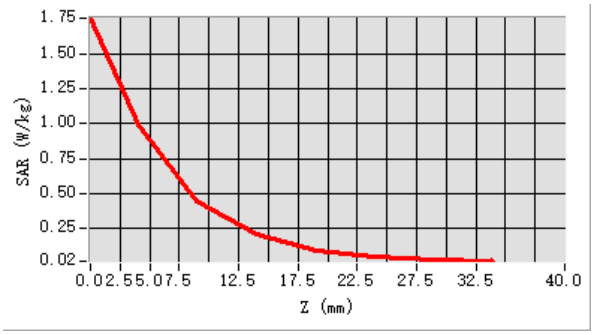
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI39
Device Position	Body back
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0

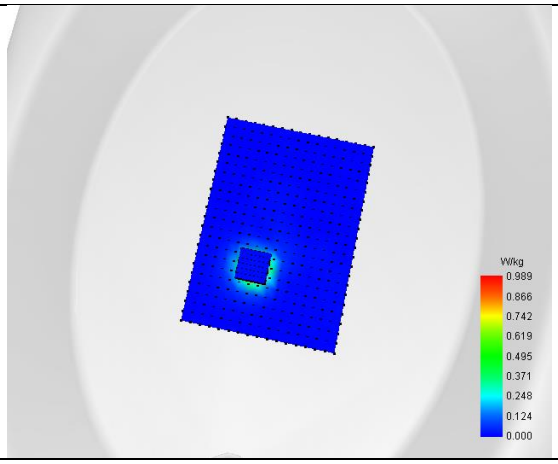
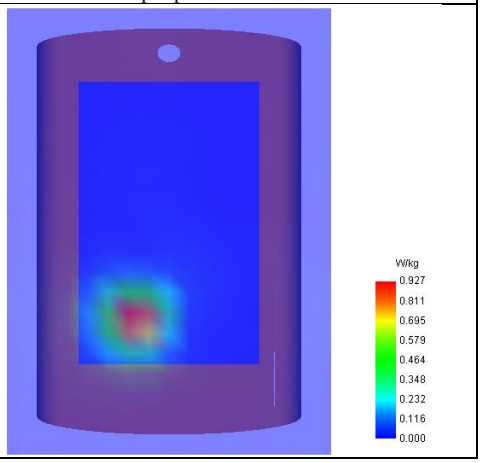
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-18.00, Y=-42.00 ; SAR Peak: 1.75 W/kg

SAR 10g (W/Kg)	0.414
SAR 1g (W/Kg)	0.923
Variation (%)	-16.590
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	44.824871

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.754	0.989	0.443	0.207	0.096	0.044	0.026



3D screen shot	Hot spot position
	

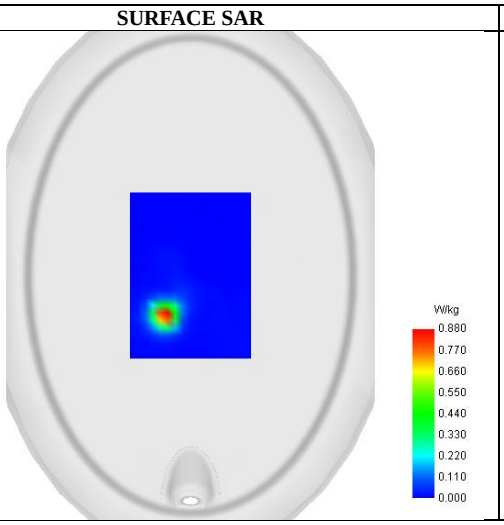
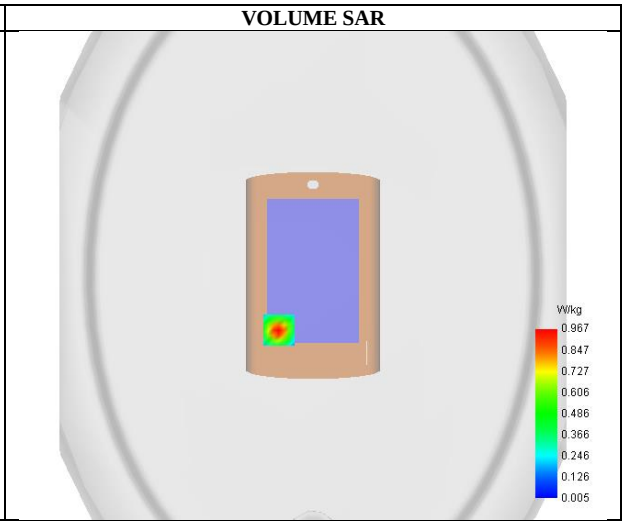
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11b High- Body back
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ= 1.78mho/m; ε_r =38.29; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11b High - Body back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b High - Body back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

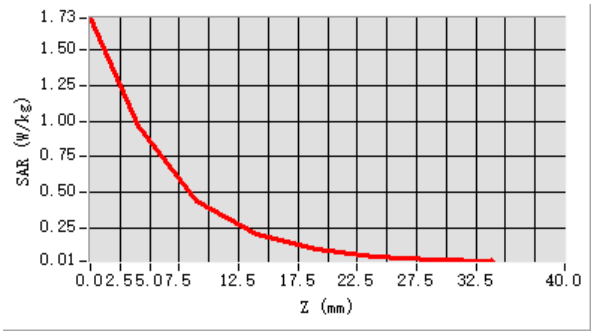
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI39
Device Position	Body back
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0

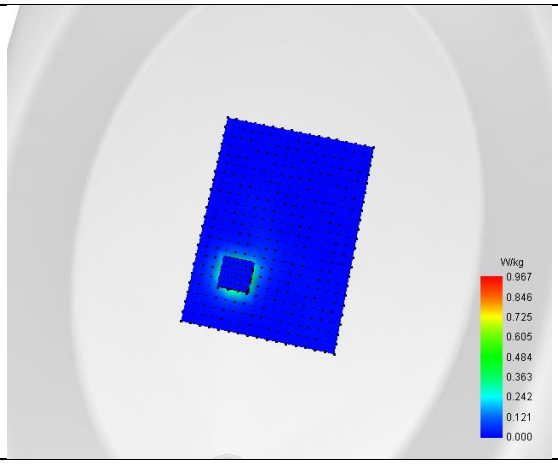
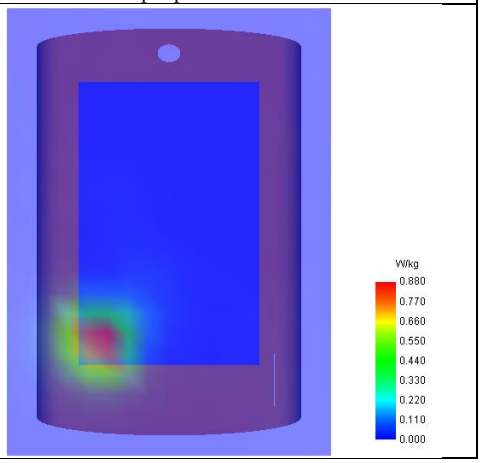
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-33.00, Y=-53.00 ; SAR Peak: 1.70 W/kg

SAR 10g (W/Kg)	0.398
SAR 1g (W/Kg)	0.892
Variation (%)	-9.830
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	44.670081

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.726	0.967	0.432	0.199	0.093	0.042	0.019



3D screen shot	Hot spot position
	

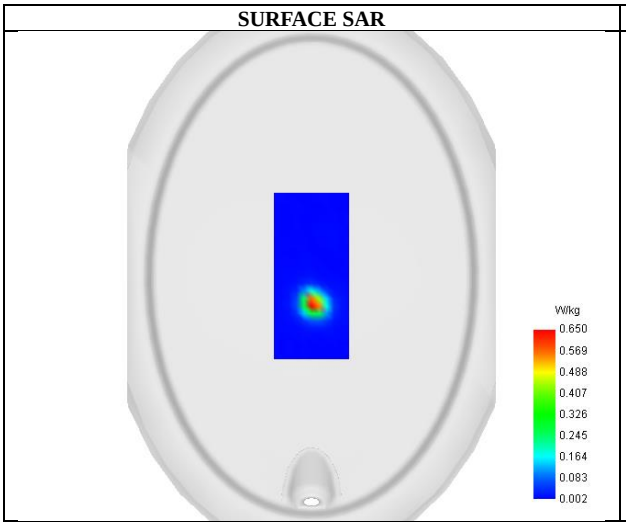
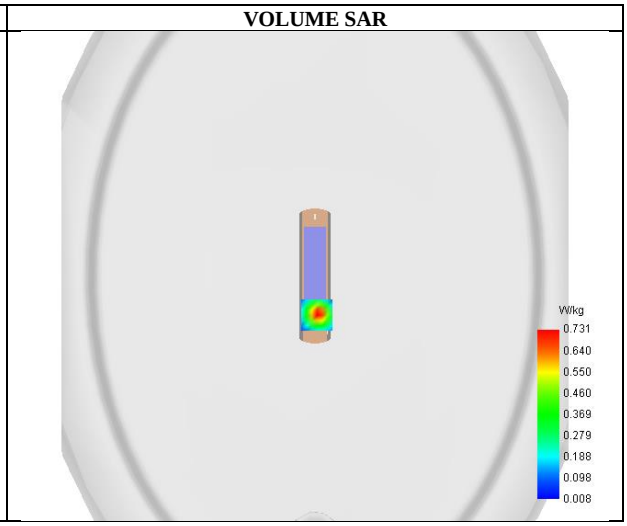
Module AP6398P-ANT2
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11b High- Edge 2 (Right)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ= 1.78mho/m; εr =38.29; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11b High - Edge 2 (Right) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b High - Edge 2 (Right) /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

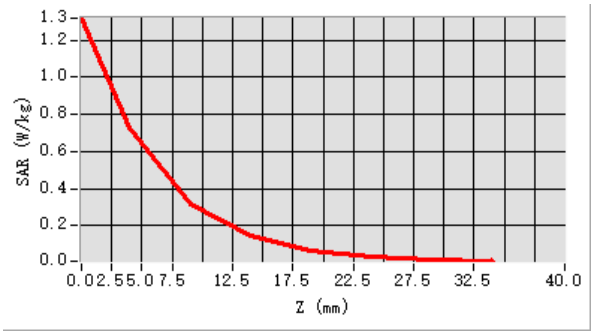
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 2 (Right)
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0

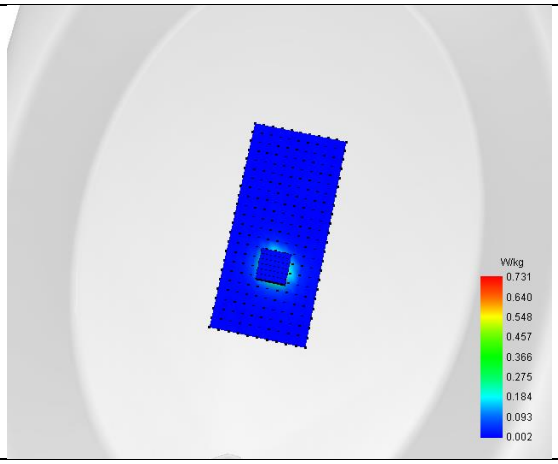
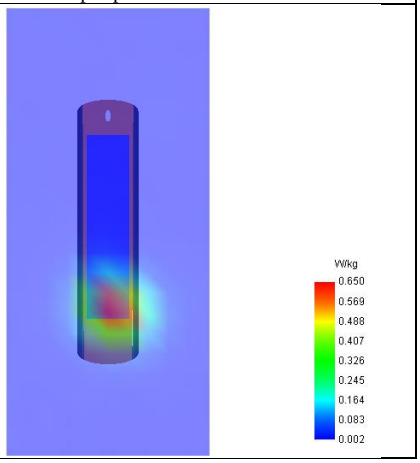
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-38.00 ; SAR Peak: 1.32 W/kg

SAR 10g (W/Kg)	0.277
SAR 1g (W/Kg)	0.668
Variation (%)	-29.910
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	43.545734

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.318	0.731	0.318	0.147	0.068	0.030	0.017



3D screen shot	Hot spot position
	

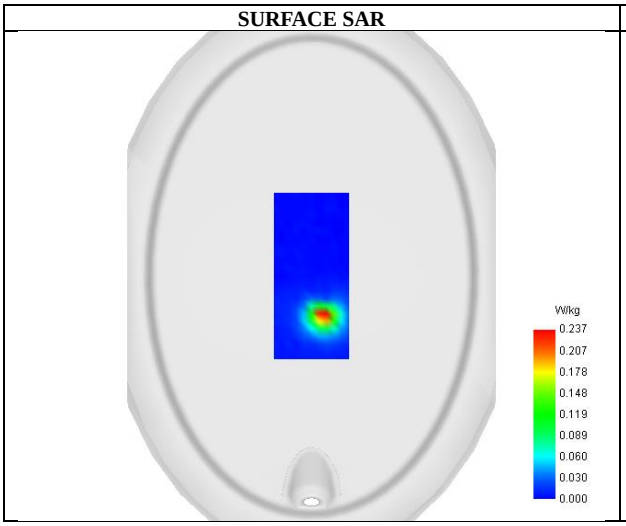
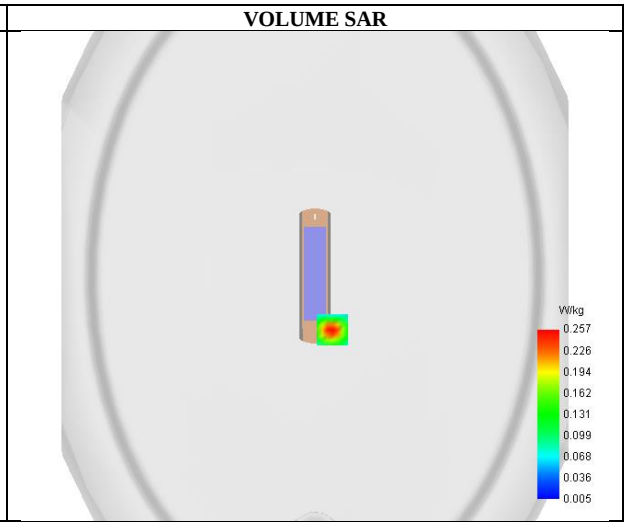
Module WCN6856-ANT1
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11b High- Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ= 1.78mho/m; εr =38.29; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11b High - Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b High - Edge 4 (Left) /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

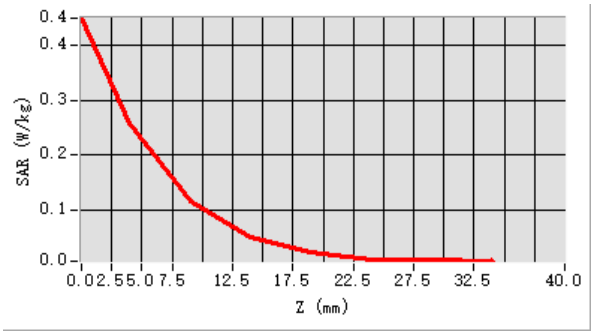
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0

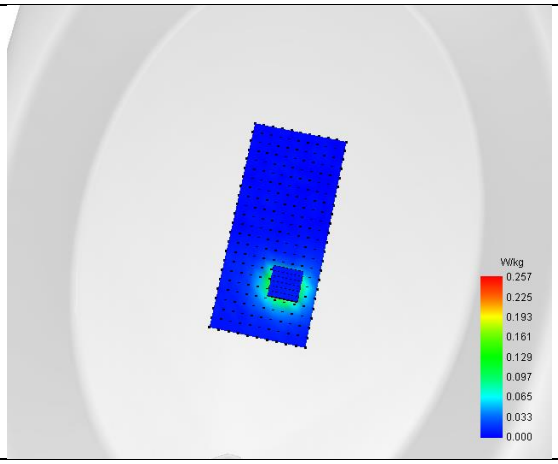
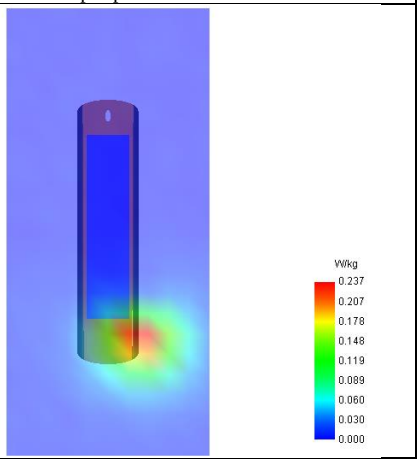
SURFACE SAR	VOLUME SAR
	

Maximum location: X=17.00, Y=-52.00 ; SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.108
SAR 1g (W/Kg)	0.239
Variation (%)	-51.180
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	45.739221

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.449	0.257	0.118	0.050	0.025	0.011	0.010



3D screen shot	Hot spot position
	

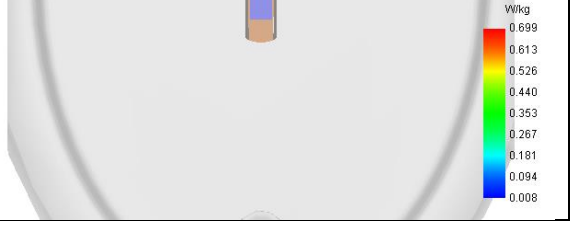
Module WCN6856-ANT2
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11b High- Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ= 1.78mho/m; εr =38.29; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11b High - Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b High - Edge 4 (Left) /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

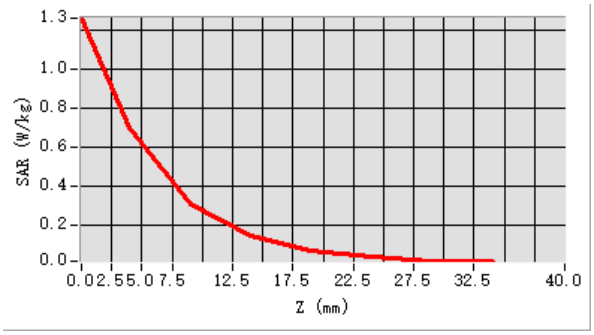
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0

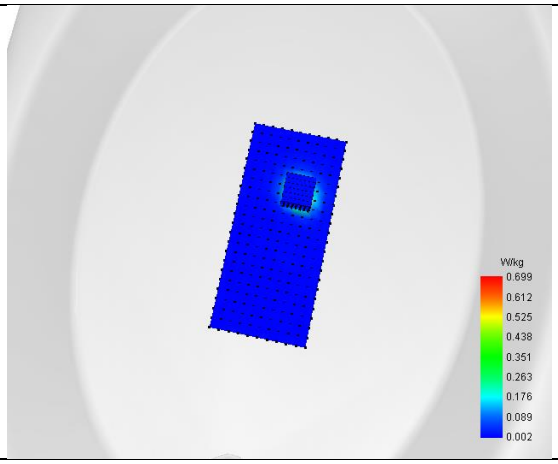
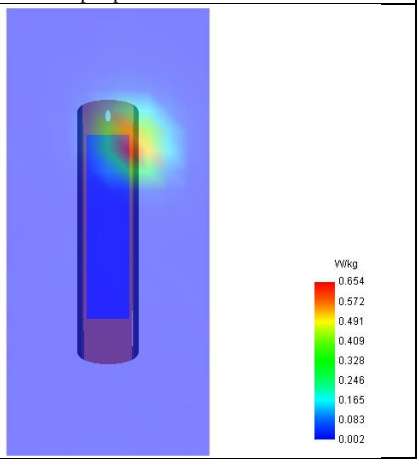
SURFACE SAR	VOLUME SAR
	

Maximum location: X=11.00, Y=42.00 ; SAR Peak: 1.26 W/kg

SAR 10g (W/Kg)	0.271
SAR 1g (W/Kg)	0.646
Variation (%)	-23.550
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	44.094678

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.259	0.699	0.308	0.142	0.066	0.036	0.017



3D screen shot	Hot spot position
	

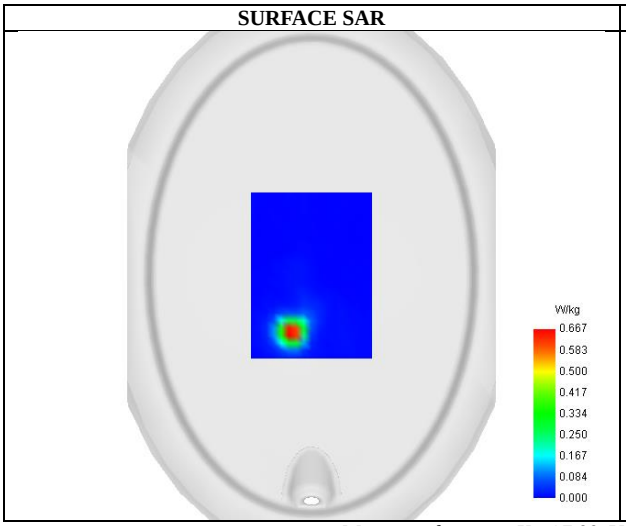
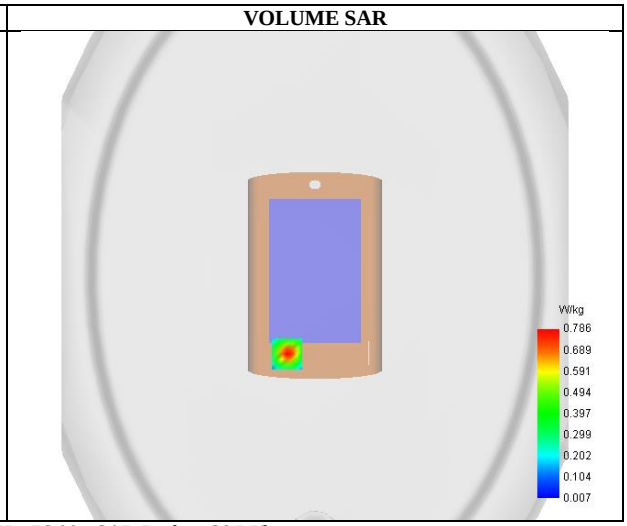
Module AP6398P-ANT1
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11n20 High- Body back
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ= 1.78mho/m; εr =38.29; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11n20 High - Body back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11n20 High - Body back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

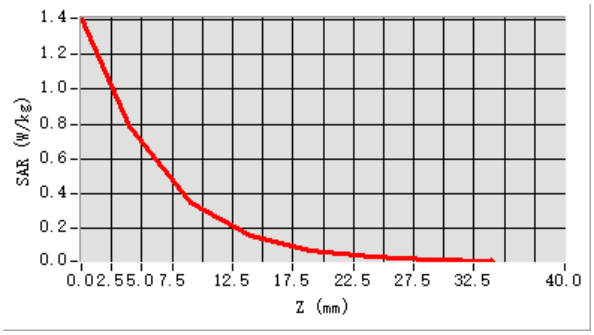
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI39
Device Position	Body back
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0

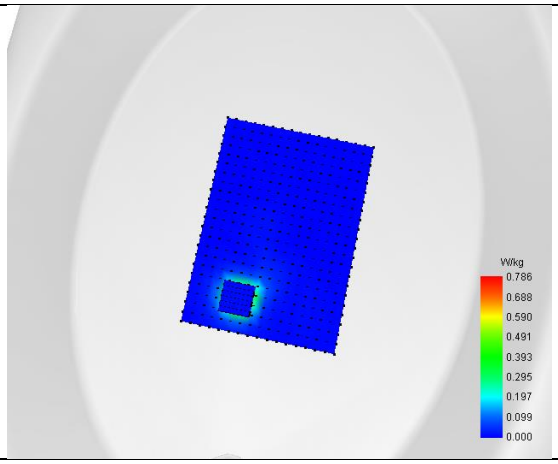
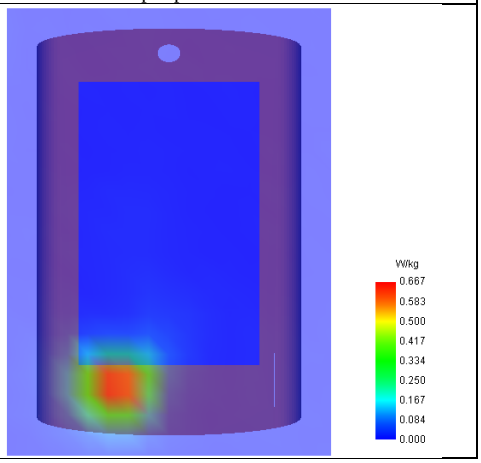
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-27.00, Y=-76.00 ; SAR Peak: 1.39 W/kg

SAR 10g (W/Kg)	0.322
SAR 1g (W/Kg)	0.727
Variation (%)	-21.670
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	44.595465

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.406	0.786	0.351	0.163	0.078	0.038	0.020



3D screen shot	Hot spot position
	

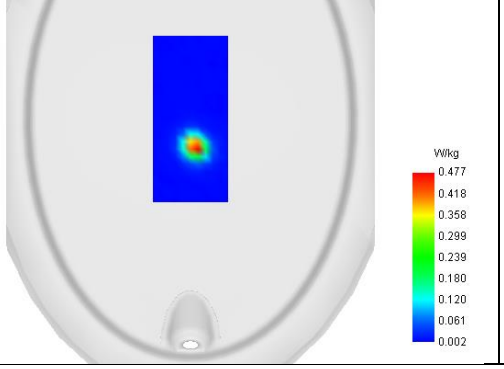
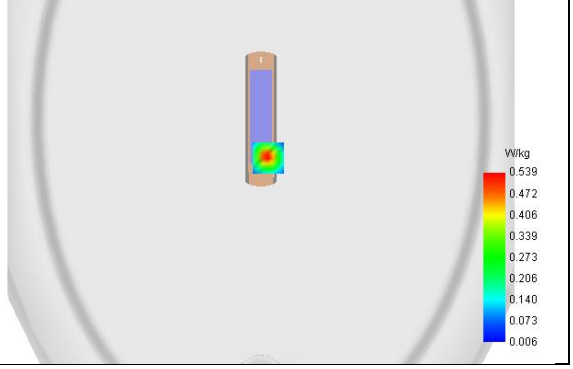
Module AP6398P-ANT2
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11n20 High- Edge 2 (Right)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ= 1.78mho/m; εr =38.29; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11n20 High - Edge 2 (Right) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11n20 High - Edge 2 (Right) /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

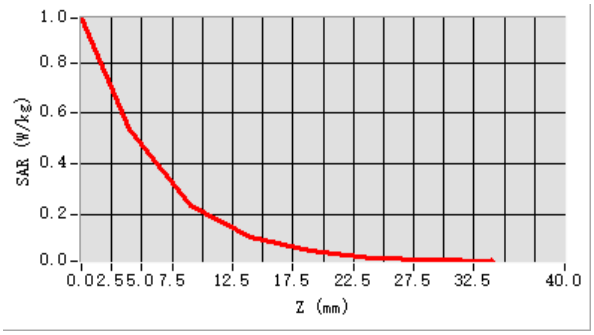
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 2 (Right)
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0

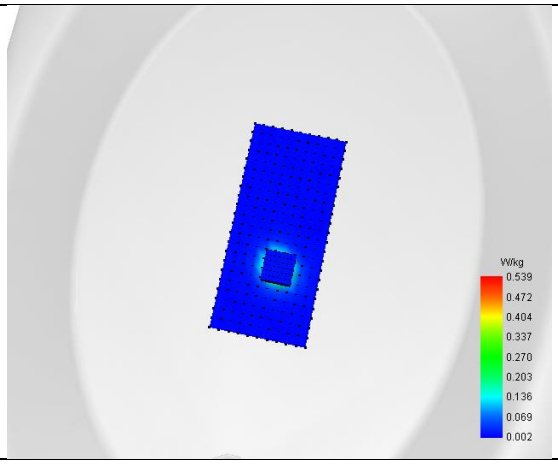
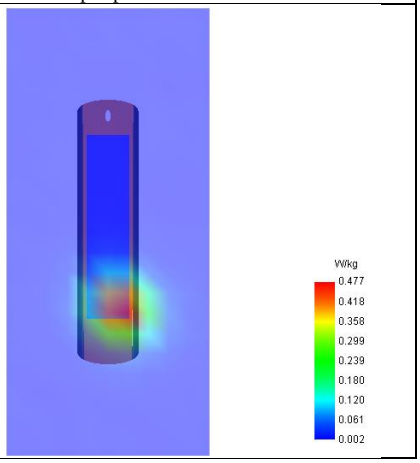
SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=-38.00 ; SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.204
SAR 1g (W/Kg)	0.497
Variation (%)	-35.600
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	43.648144

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.976	0.539	0.235	0.105	0.052	0.026	0.016



3D screen shot	Hot spot position
	

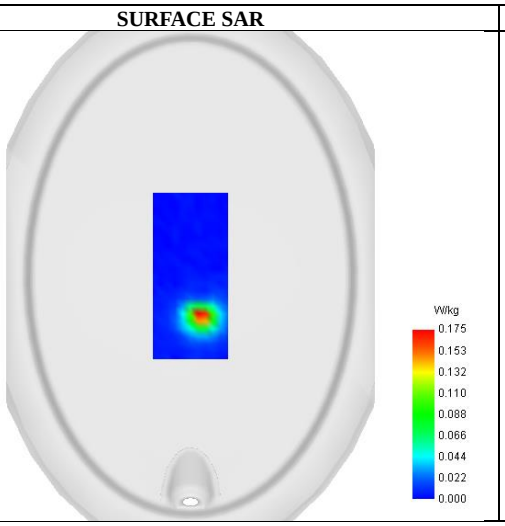
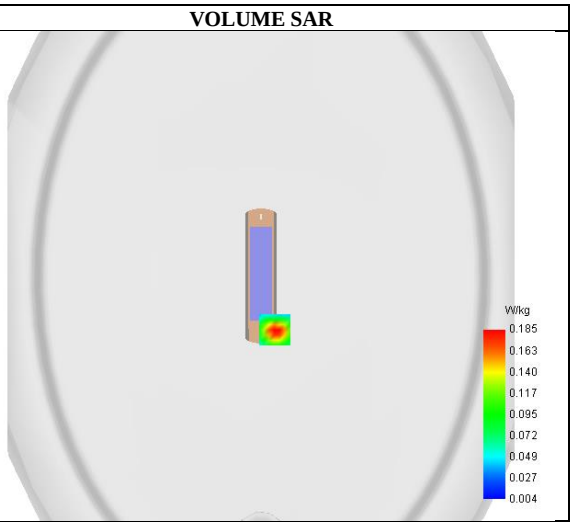
Module WCN6856-ANT1
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11n20 Mid- Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ= 1.75mho/m; εr =39.12; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11n20 Mid - Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11n20 Mid - Edge 4 (Left) /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

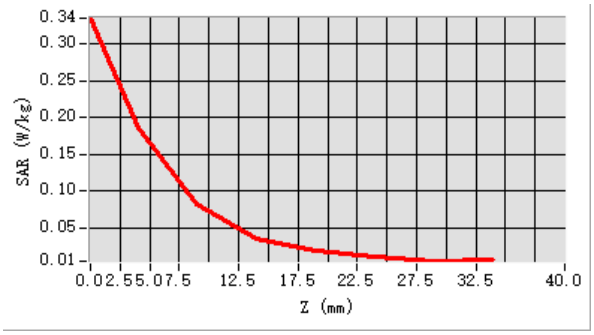
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0

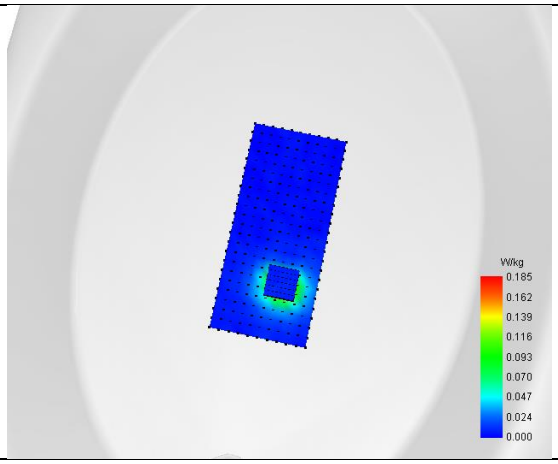
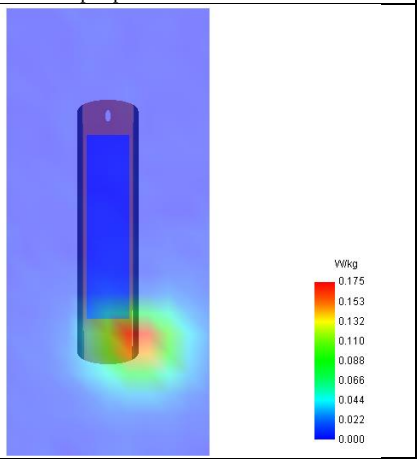
SURFACE SAR	VOLUME SAR
	

Maximum location: X=13.00, Y=-52.00 ; SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.080
SAR 1g (W/Kg)	0.174
Variation (%)	-35.650
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	45.025221

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.335	0.185	0.083	0.036	0.019	0.012	0.005



3D screen shot	Hot spot position
	

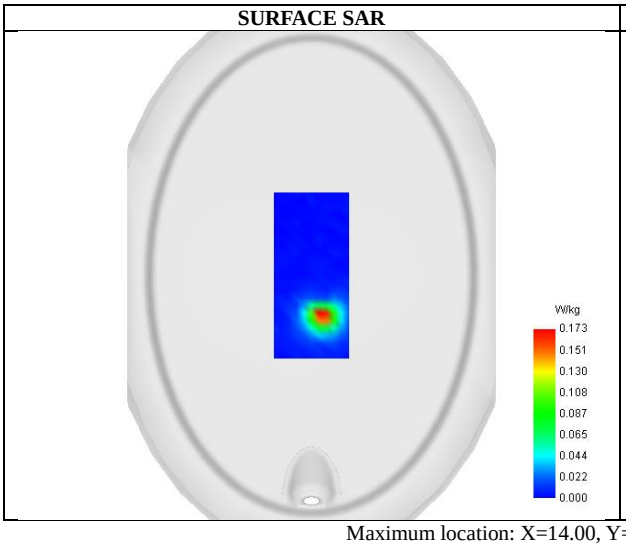
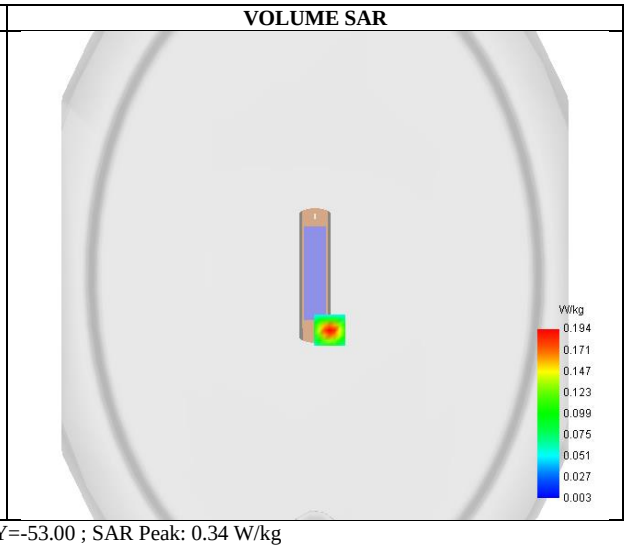
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11n20 High- Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ= 1.78mho/m; εr =38.29; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11n20 High - Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11n20 High - Edge 4 (Left) /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

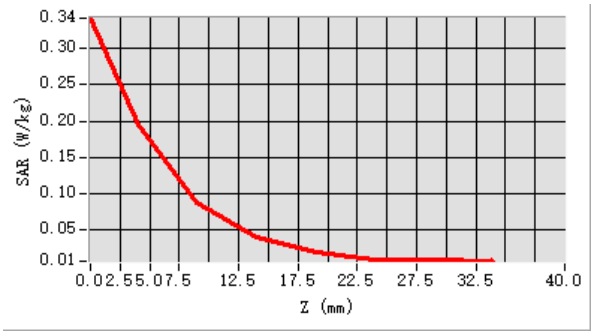
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0

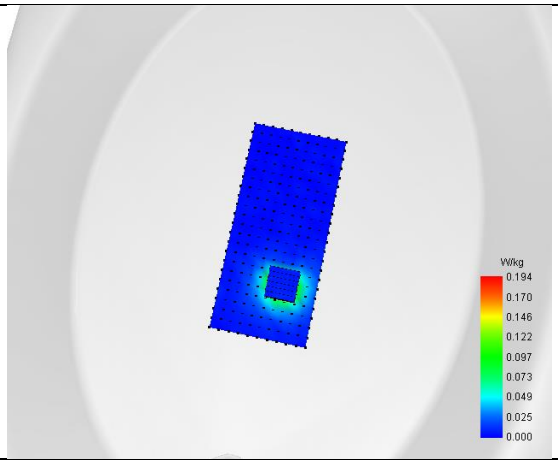
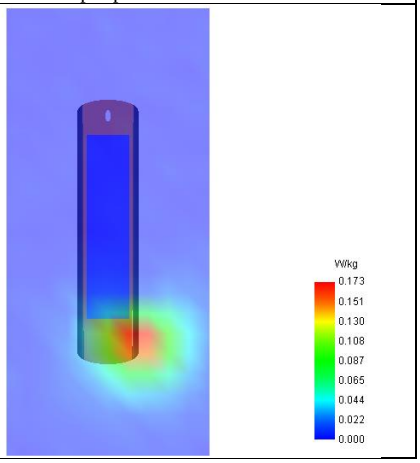
SURFACE SAR	VOLUME SAR
	

Maximum location: X=14.00, Y=-53.00 ; SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.082
SAR 1g (W/Kg)	0.178
Variation (%)	-32.330
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	44.950128

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.341	0.194	0.087	0.040	0.019	0.010	0.010



3D screen shot	Hot spot position
	

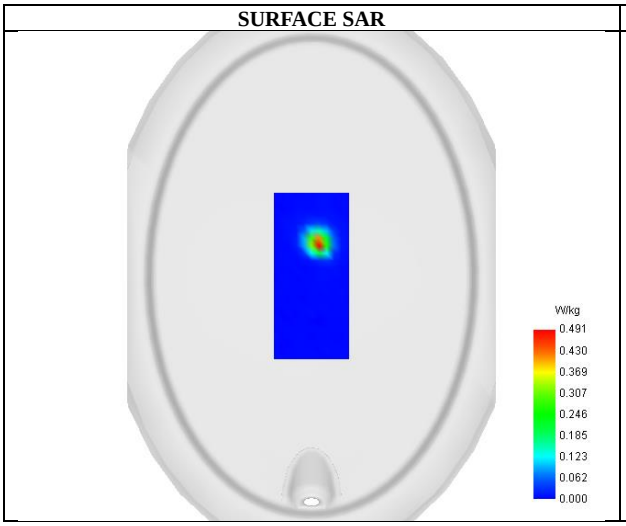
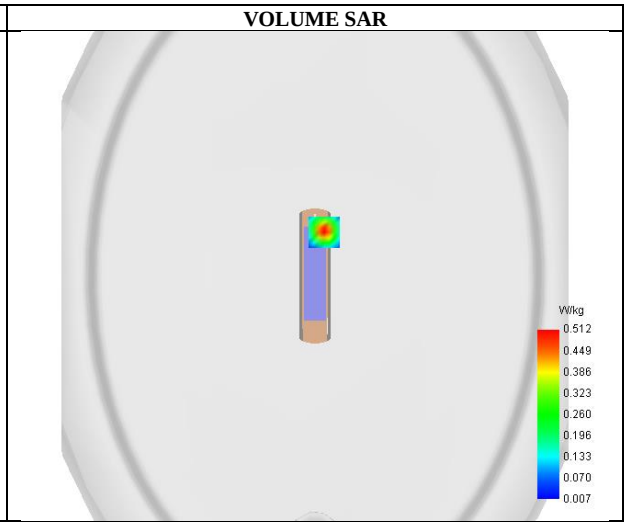
Module WCN6856-ANT2
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11n20 High- Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ= 1.78mho/m; εr =38.29; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11n20 High - Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11n20 High - Edge 4 (Left) /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

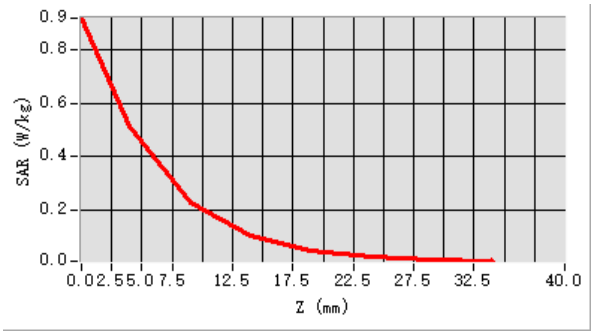
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	2450MHz
Channels	High
Signal	Crest factor: 1.0

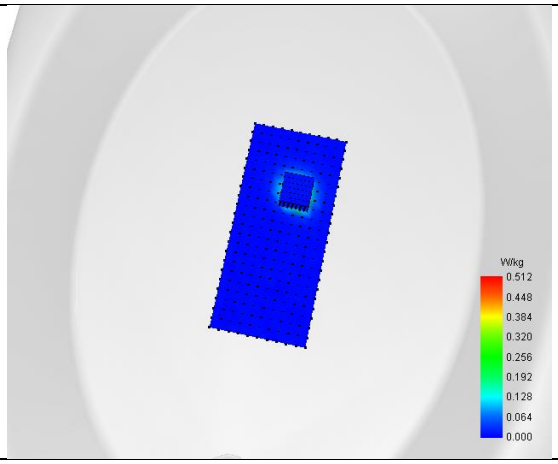
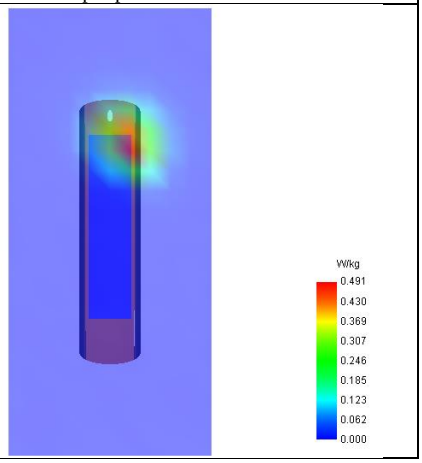
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=42.00 ; SAR Peak: 0.91 W/kg

SAR 10g (W/Kg)	0.198
SAR 1g (W/Kg)	0.469
Variation (%)	-40.900
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	43.869771

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.918	0.512	0.225	0.106	0.048	0.022	0.014



3D screen shot	Hot spot position
	

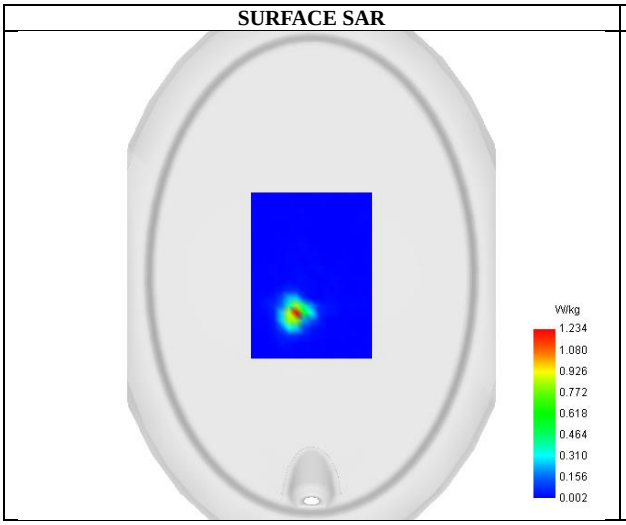
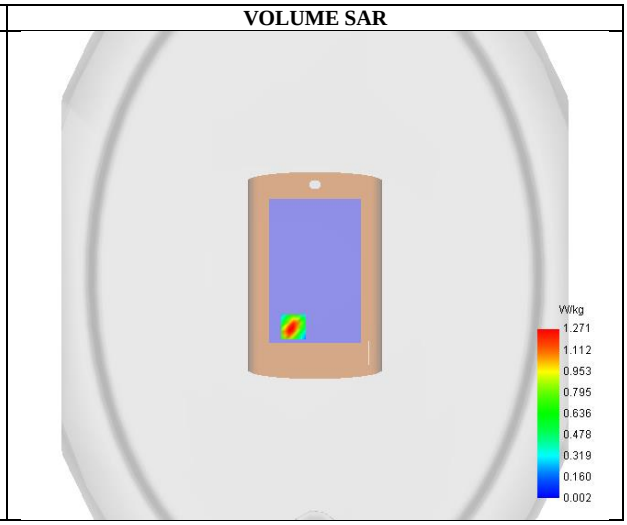
5.2GHz
Module AP6398P-ANT1
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11a CH48- Body back
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5240MHz; Medium parameters used: f = 5250 MHz; σ= 4.54mho/m; εr =35.11; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11a CH48- Body back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11a CH48- Body back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

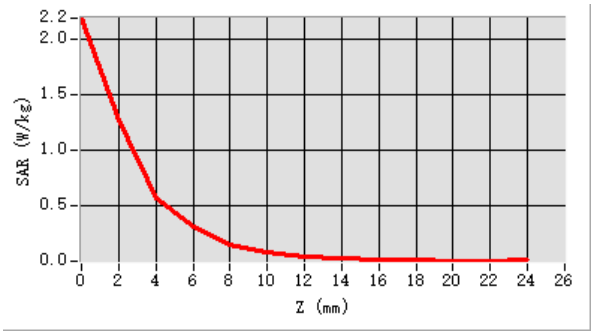
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Body back
Band	5200MHz
Channels	CH48
Signal	Crest factor: 1.0

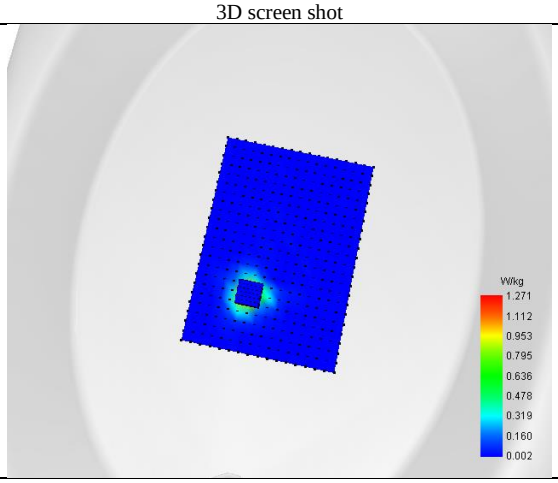
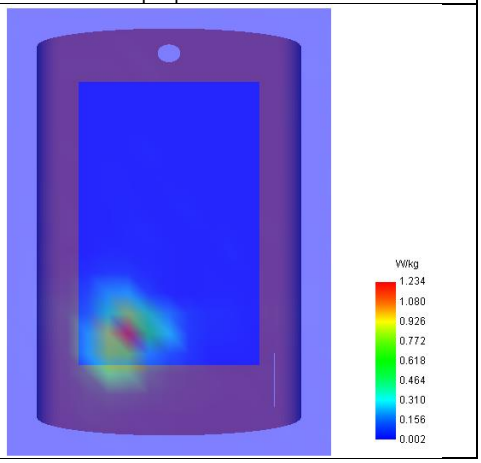
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-21.00, Y=-50.00 ; SAR Peak: 2.26 W/kg

SAR 10g (W/Kg)	0.279
SAR 1g (W/Kg)	0.770
Variation (%)	-42.660
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.233113

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.191	1.271	0.572	0.318	0.151	0.086	0.040	0.034	0.018	0.010	0.007	0.002



3D screen shot	Hot spot position
	

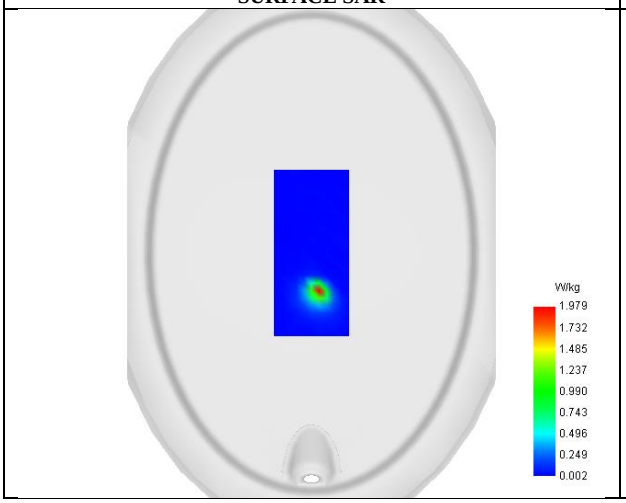
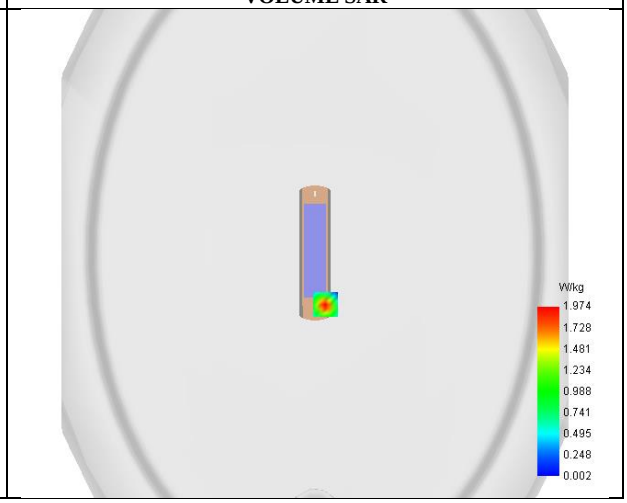
Module AP6398P-ANT2
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11a CH48- Edge 2 (Right)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5240MHz; Medium parameters used: f = 5250 MHz; σ= 4.54mho/m; εr =35.11; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11a CH48- Edge 2 (Right) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11a CH48- Edge 2 (Right) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

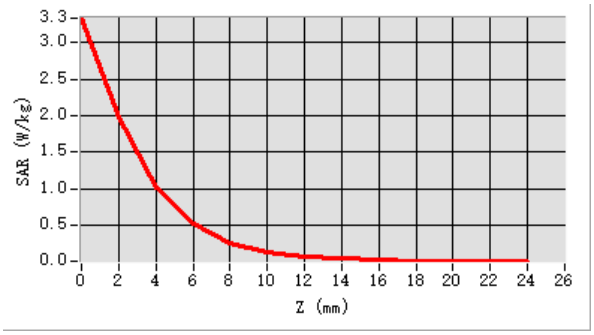
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 2 (Right)
Band	5200MHz
Channels	CH48
Signal	Crest factor: 1.0

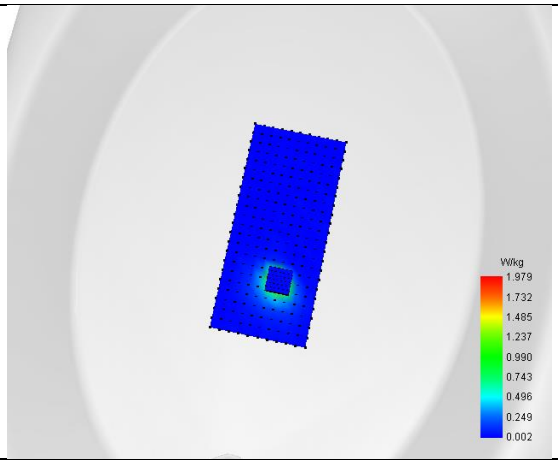
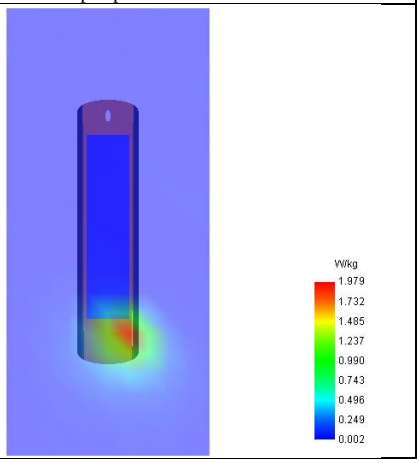
SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=-50.00 ; SAR Peak: 3.49 W/kg

SAR 10g (W/Kg)	0.399
SAR 1g (W/Kg)	1.140
Variation (%)	-14.840
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	51.026291

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.333	1.974	1.007	0.518	0.265	0.138	0.079	0.045	0.032	0.021	0.012	0.020



3D screen shot	Hot spot position
	

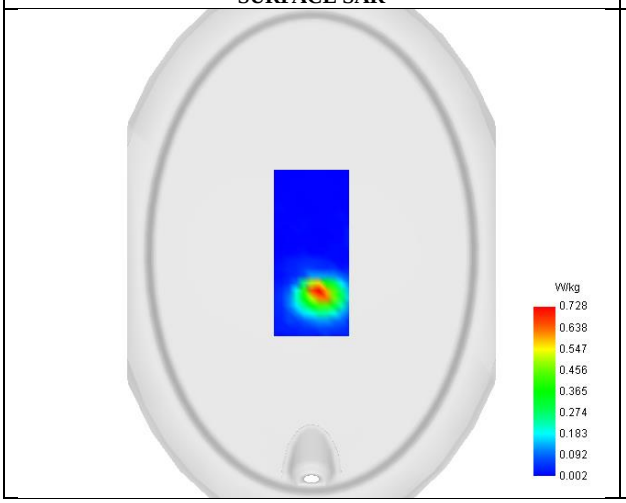
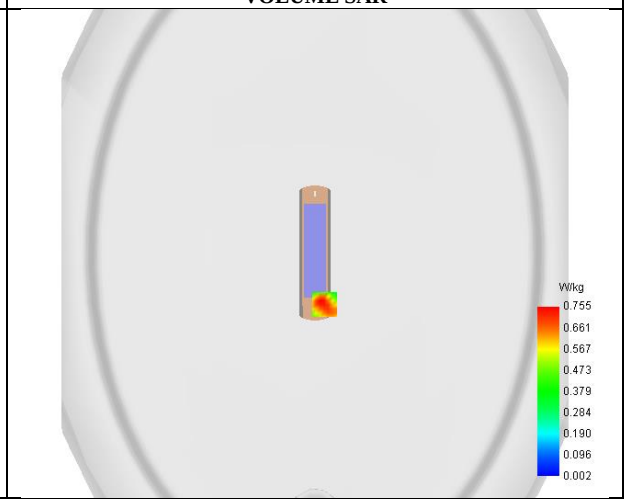
Module WCN6856-ANT1
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11a CH48- Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5240MHz; Medium parameters used: f = 5250 MHz; σ= 4.54mho/m; εr =35.11; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11a CH48- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11a CH48- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

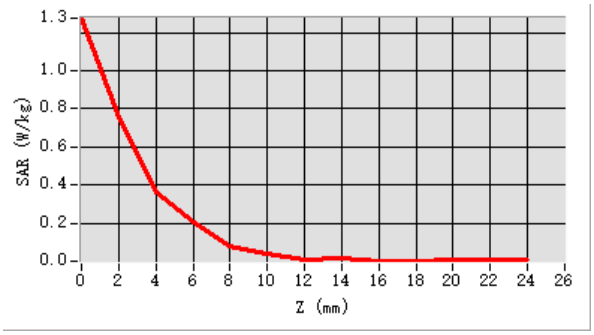
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	5200MHz
Channels	CH48
Signal	Crest factor: 1.0

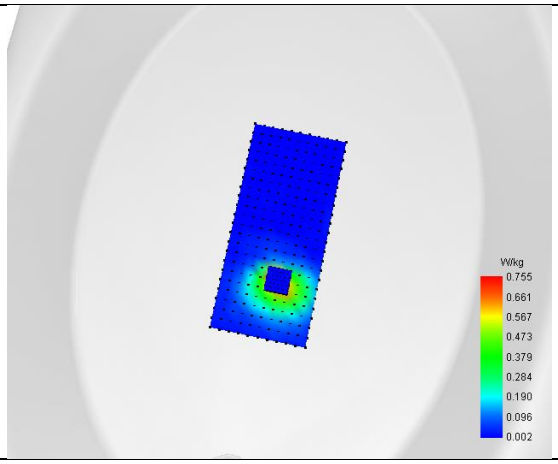
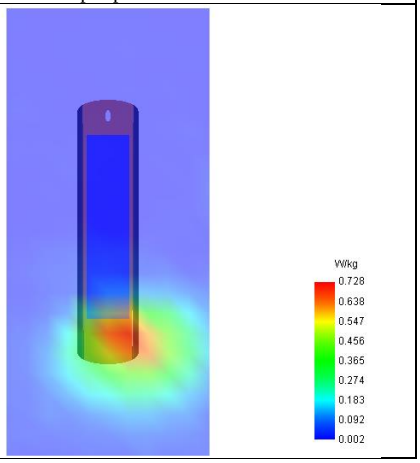
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=-50.00 ; SAR Peak: 1.34 W/kg

SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.468
Variation (%)	-20.050
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.480024

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.275	0.755	0.360	0.209	0.078	0.042	0.009	0.015	0.002	0.002	0.007	0.007



3D screen shot	Hot spot position
	

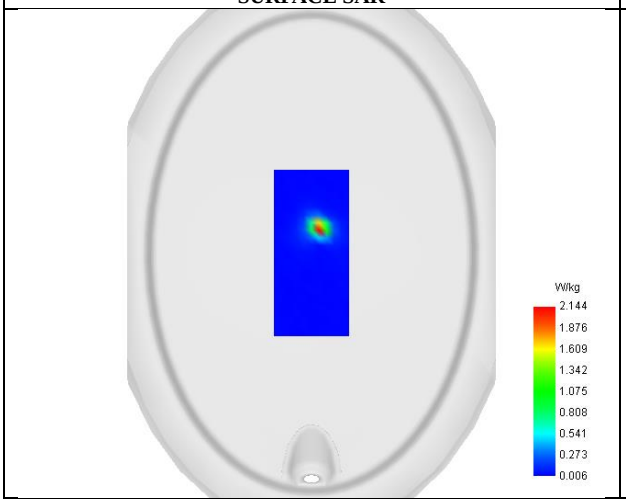
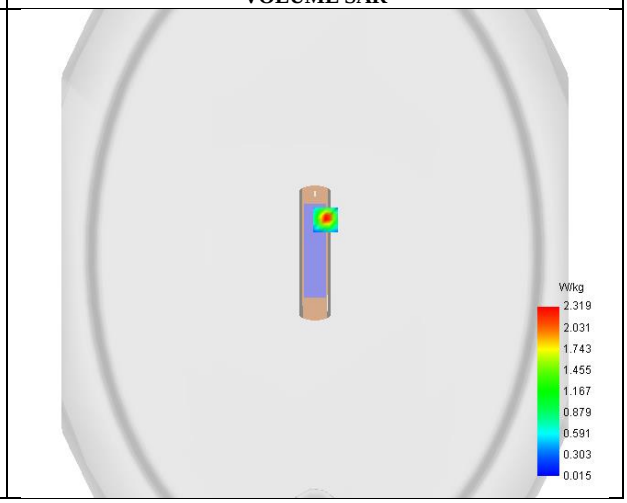
Module WCN6856-ANT2
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11a CH40- Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5200MHz; Medium parameters used: f = 5250 MHz; σ= 4.52mho/m; εr =35.71; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11a CH40- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11a CH40- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

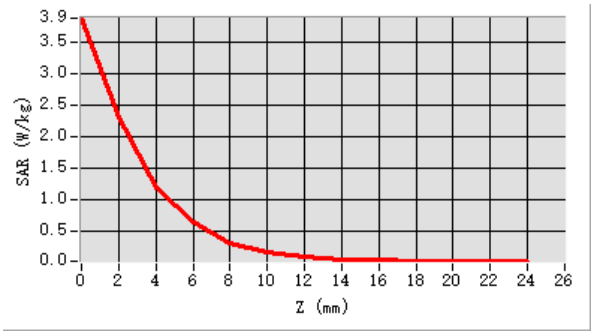
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	5200MHz
Channels	CH40
Signal	Crest factor: 1.0

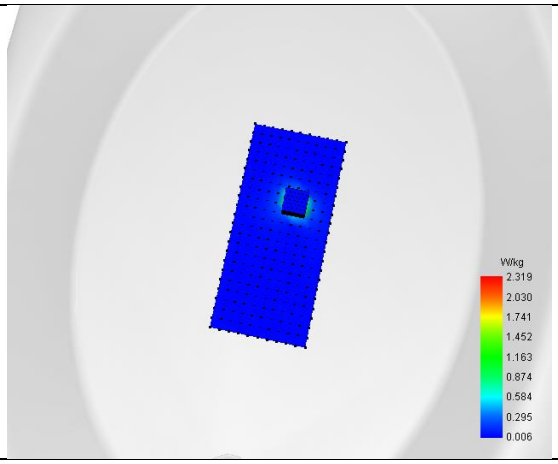
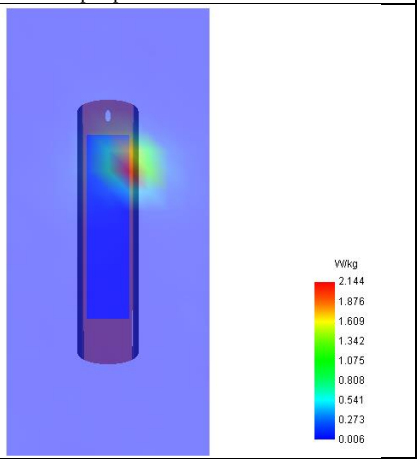
SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=32.00 ; SAR Peak: 4.21 W/kg

SAR 10g (W/Kg)	0.436
SAR 1g (W/Kg)	1.356
Variation (%)	-36.010
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.606715

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.880	2.319	1.197	0.634	0.304	0.174	0.092	0.040	0.039	0.031	0.028	0.025



3D screen shot	Hot spot position
	

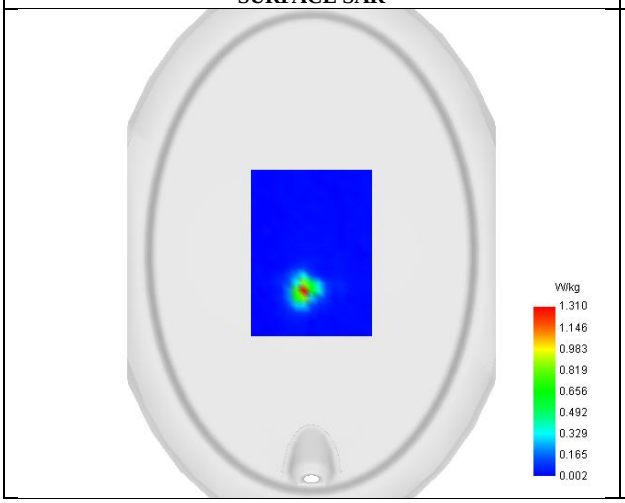
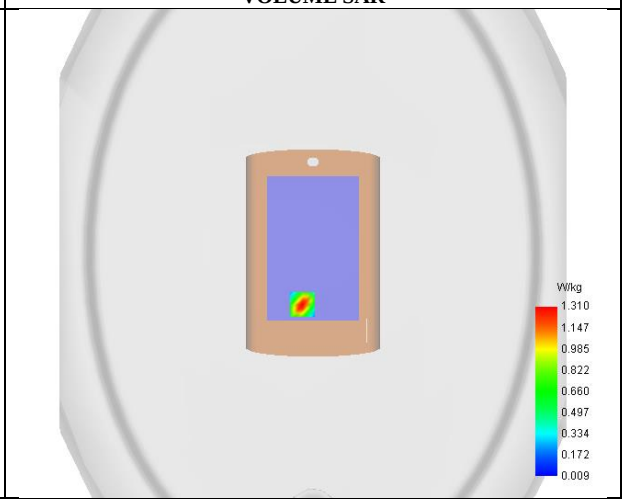
Module AP6398P-ANT1
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11 ac20 CH48- Body back
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11 ac20; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5240MHz; Medium parameters used: f = 5250 MHz; σ= 4.54mho/m; εr =35.11; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11 ac20 CH48- Body back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11 ac20 CH48- Body back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

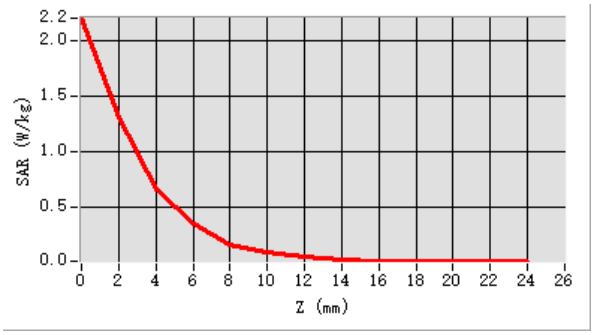
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Body back
Band	5200MHz
Channels	CH48
Signal	Crest factor: 1.0

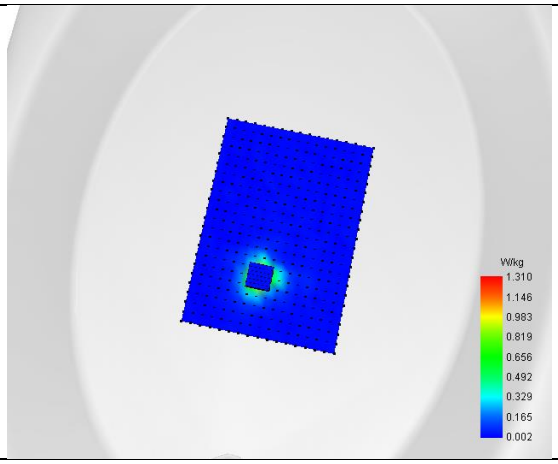
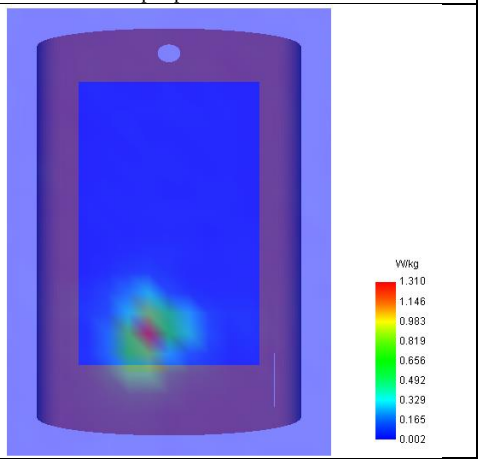
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=-50.00 ; SAR Peak: 2.33 W/kg

SAR 10g (W/Kg)	0.289
SAR 1g (W/Kg)	0.783
Variation (%)	-39.450
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	50.656254

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.207	1.310	0.663	0.352	0.167	0.099	0.061	0.033	0.023	0.025	0.024	0.024



3D screen shot	Hot spot position
	

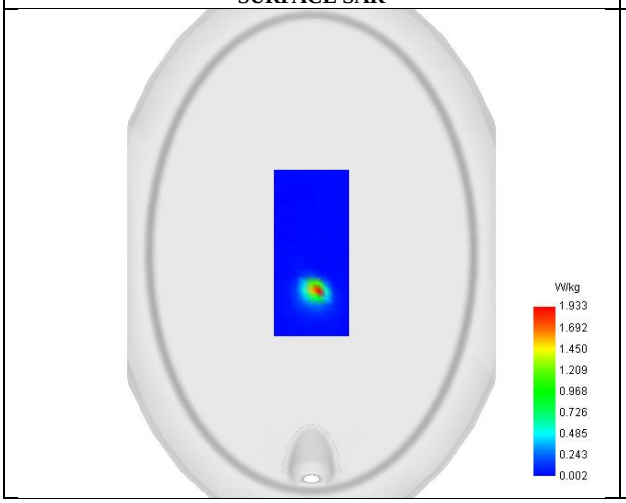
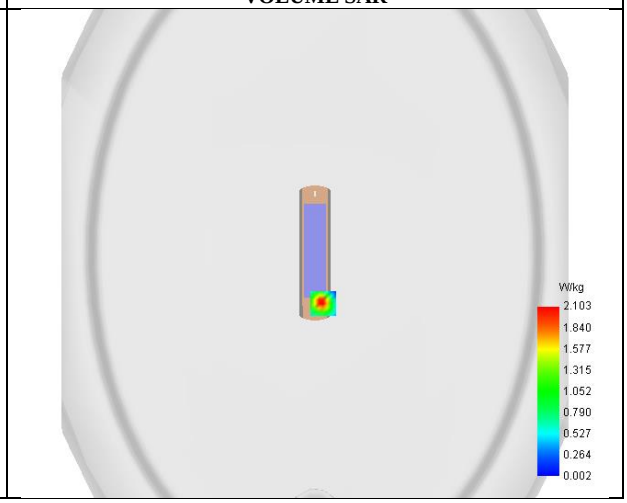
Module AP6398P-ANT2
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11 ac20 CH48- Edge 2 (Right)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11 ac20; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5240MHz; Medium parameters used: f = 5250 MHz; σ= 4.54mho/m; εr =35.11; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11 ac20 CH48- Edge 2 (Right) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11 ac20 CH48- Edge 2 (Right) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

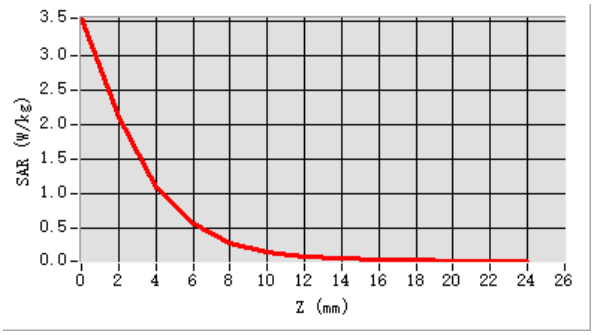
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 2 (Right)
Band	5200MHz
Channels	CH48
Signal	Crest factor: 1.0

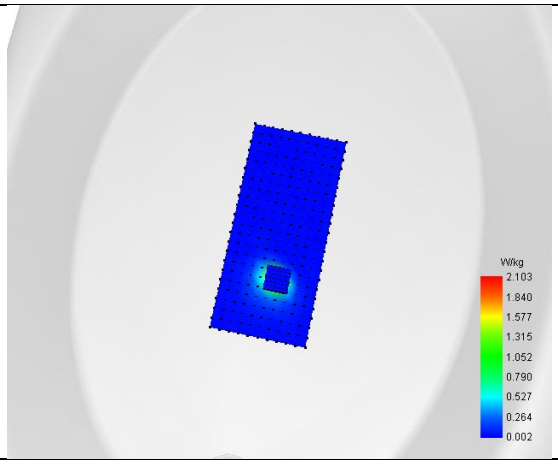
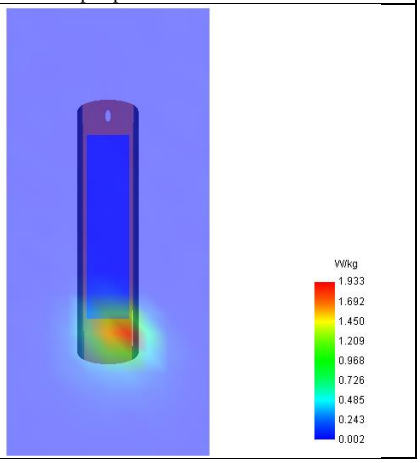
SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-49.00 ; SAR Peak: 4.00 W/kg

SAR 10g (W/Kg)	0.412
SAR 1g (W/Kg)	1.230
Variation (%)	-49.090
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.228740

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.539	2.103	1.077	0.556	0.285	0.151	0.077	0.050	0.041	0.029	0.023	0.020



3D screen shot	Hot spot position
	

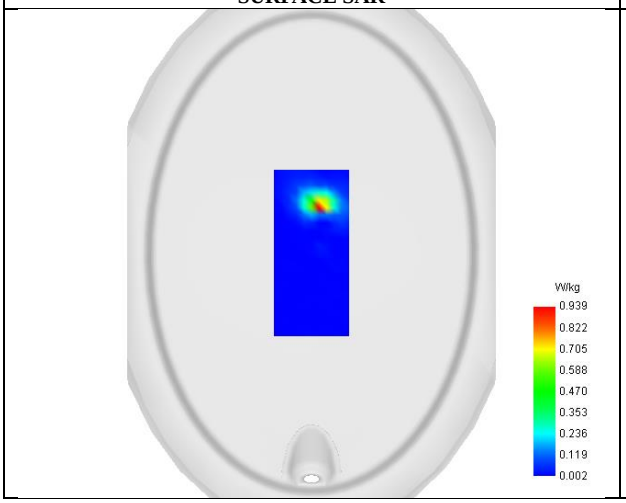
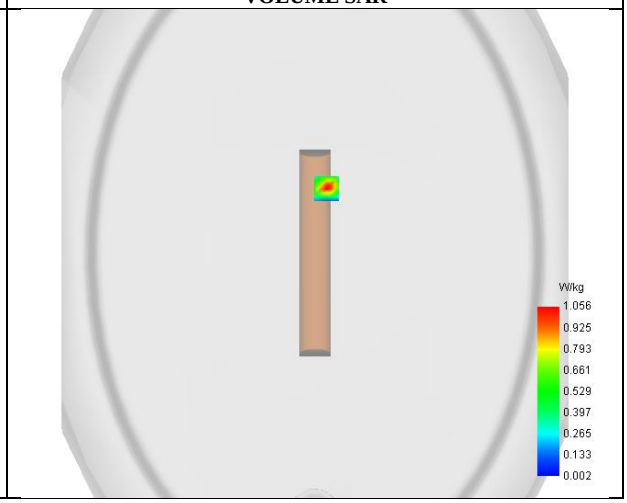
Module WCN6856-ANT1
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11n20 CH48- Edge 1 (Top)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5240MHz; Medium parameters used: f = 5250 MHz; σ= 4.54mho/m; εr =35.11; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11n20 CH48- Edge 1 (Top) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11n20 CH48- Edge 1 (Top) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

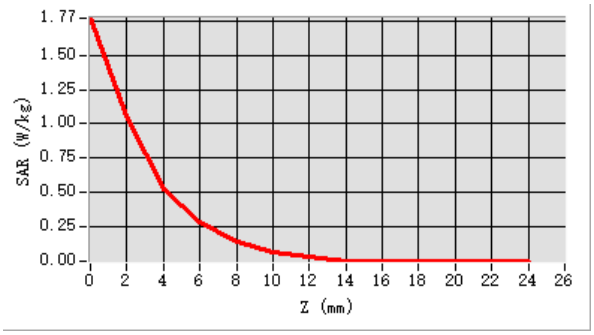
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 1 (Top)
Band	5200MHz
Channels	CH48
Signal	Crest factor: 1.0

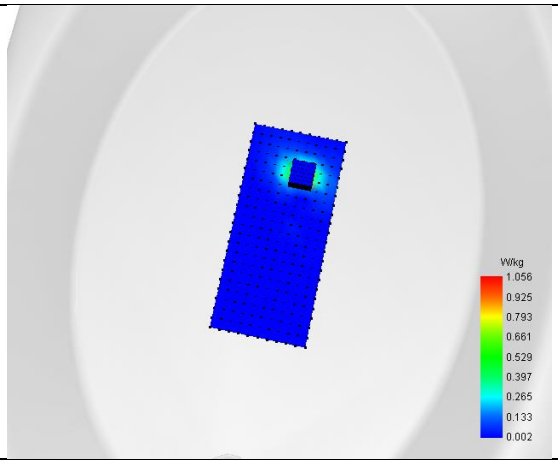
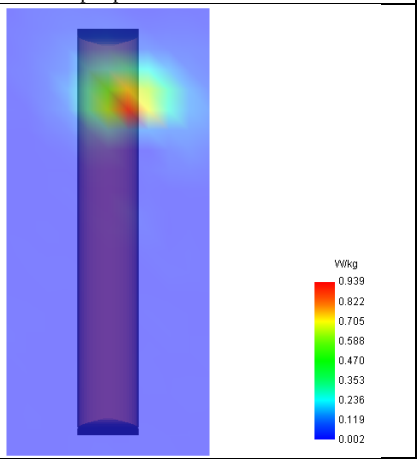
SURFACE SAR	VOLUME SAR
	

Maximum location: X=11.00, Y=62.00 ; SAR Peak: 1.95 W/kg

SAR 10g (W/Kg)	0.214
SAR 1g (W/Kg)	0.618
Variation (%)	-39.060
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	49.626088

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.768	1.056	0.524	0.282	0.143	0.069	0.037	0.005	0.005	0.002	0.002	0.002



3D screen shot	Hot spot position
	

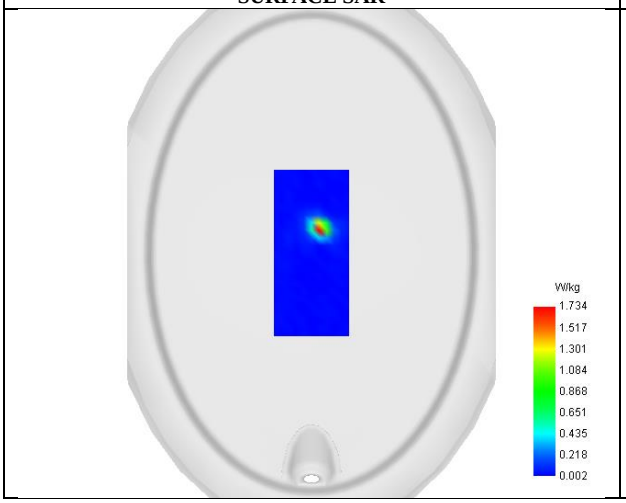
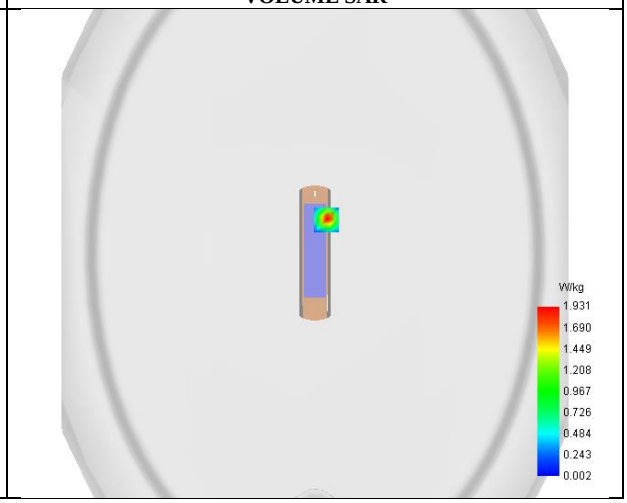
Module WCN6856-ANT2
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11n20 CH40- Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5200MHz; Medium parameters used: f = 5250 MHz; σ= 4.52mho/m; εr =35.71; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11n20 CH40- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11n20 CH40- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

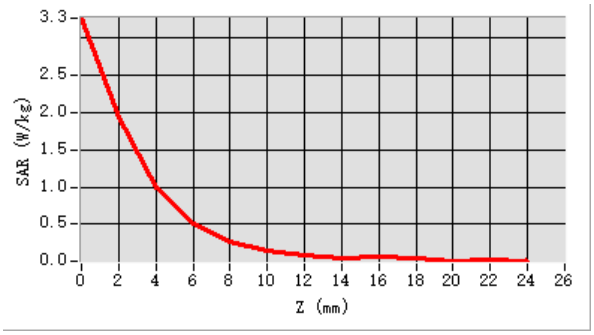
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	5200MHz
Channels	CH40
Signal	Crest factor: 1.0

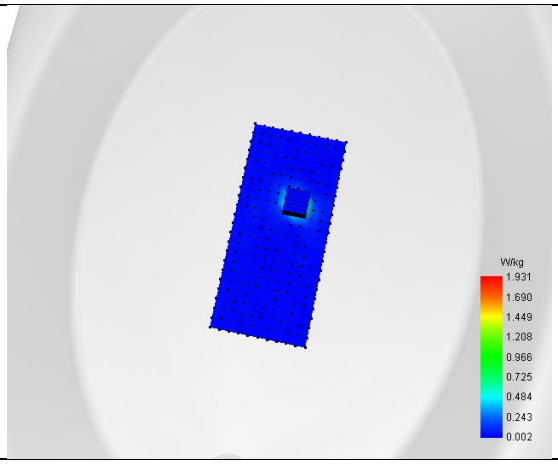
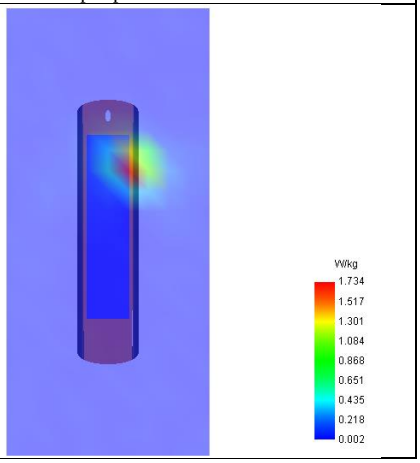
SURFACE SAR	VOLUME SAR
	

Maximum location: X=11.00, Y=32.00 ; SAR Peak: 3.48 W/kg

SAR 10g (W/Kg)	0.342
SAR 1g (W/Kg)	1.086
Variation (%)	-40.490
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.267578

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.264	1.931	0.990	0.510	0.262	0.145	0.080	0.053	0.058	0.040	0.006	0.028



3D screen shot	Hot spot position
	

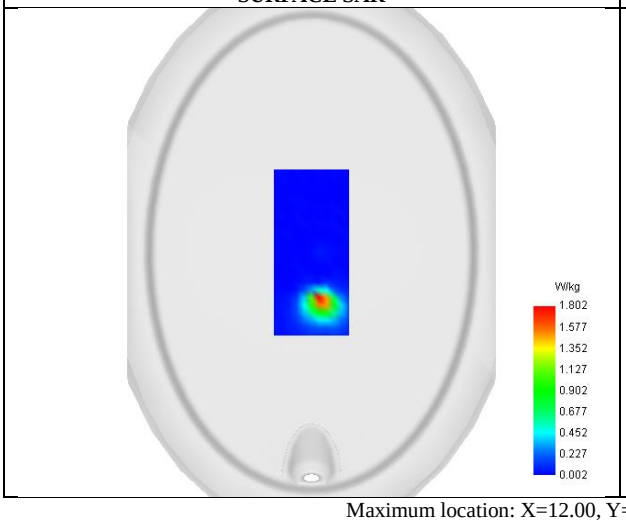
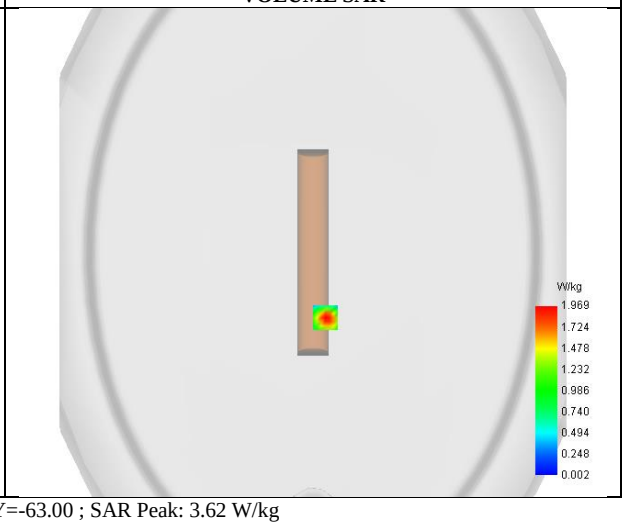
5.8GHz
Module AP6398P-ANT1
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11a CH165-Edge 1 (Top)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5825MHz; Medium parameters used: f = 5800 MHz; σ= 5.33mho/m; εr =35.13; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11a CH165- Edge 1 (Top) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11a CH165- Edge 1 (Top) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

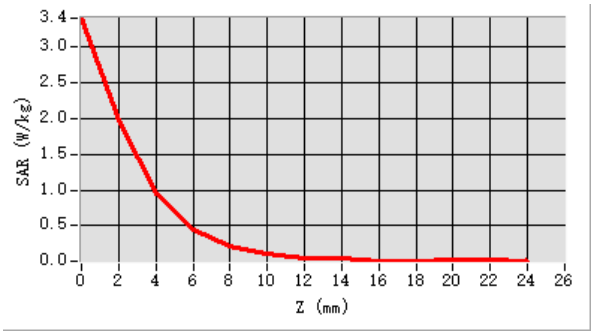
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 1 (Top)
Band	5800MHz
Channels	CH165
Signal	Crest factor: 1.0

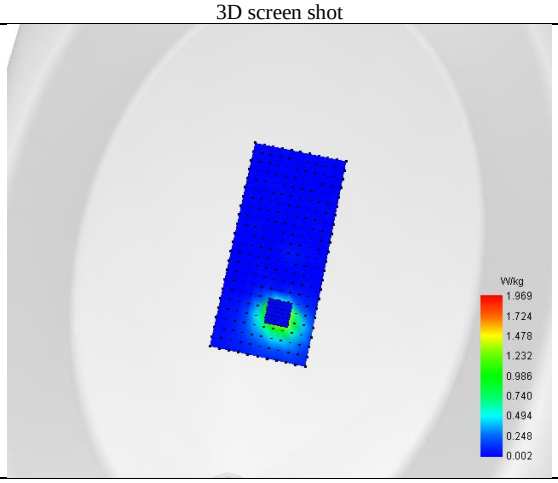
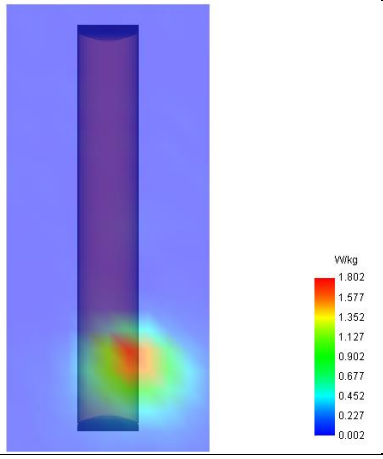
SURFACE SAR	VOLUME SAR
	

Maximum location: X=12.00, Y=-63.00 ; SAR Peak: 3.62 W/kg

SAR 10g (W/Kg)	0.442
SAR 1g (W/Kg)	1.160
Variation (%)	-78.670
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.431454

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.397	1.969	0.954	0.456	0.227	0.110	0.059	0.045	0.018	0.011	0.019	0.020



3D screen shot	Hot spot position
	

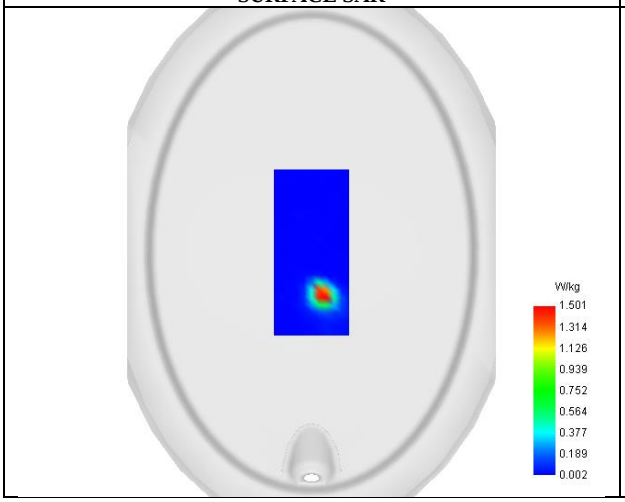
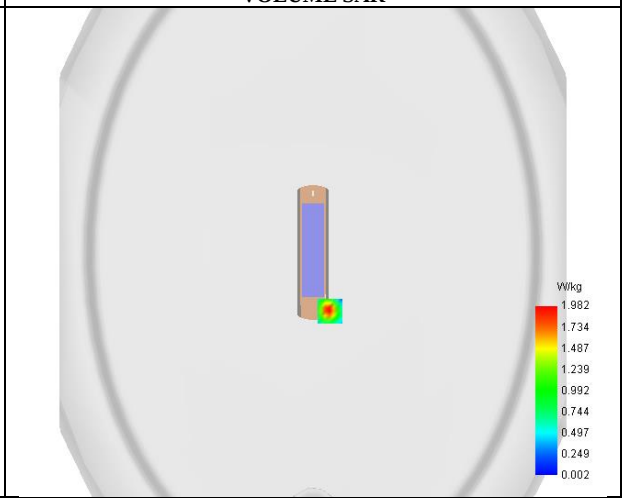
Module AP6398P-ANT2
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11ac40 CH159-Edge 2 (Right)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11ac40; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5795MHz; Medium parameters used: f = 5800 MHz; σ= 5.27mho/m; εr =36.22; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11ac40 CH159- Edge 2 (Right) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11ac40 CH159- Edge 2 (Right) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

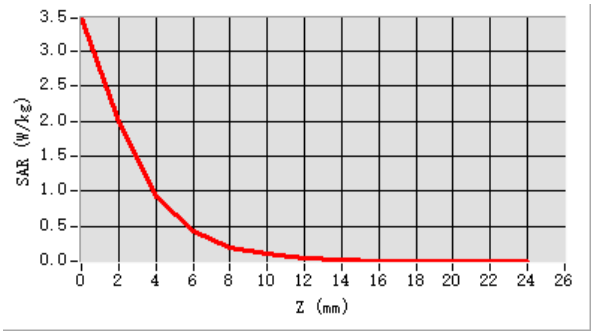
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 2 (Right)
Band	5800MHz
Channels	CH159
Signal	Crest factor: 1.0

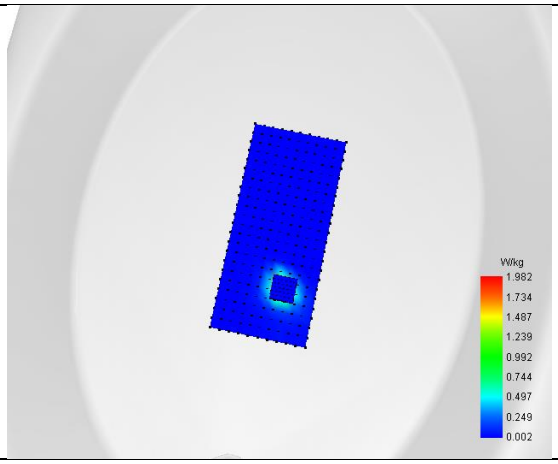
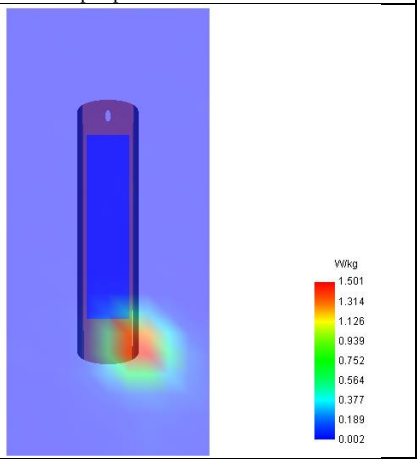
SURFACE SAR	VOLUME SAR
	

Maximum location: X=16.00, Y=-57.00 ; SAR Peak: 3.81 W/kg

SAR 10g (W/Kg)	0.381
SAR 1g (W/Kg)	1.129
Variation (%)	-73.420
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	46.302426

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.468	1.982	0.918	0.428	0.197	0.106	0.034	0.031	0.008	0.004	0.002	0.002



3D screen shot	Hot spot position
	

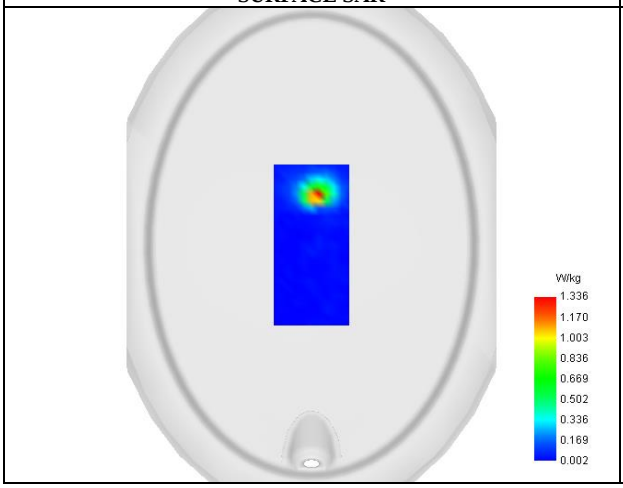
Module WCN6856-ANT1
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11a CH157-Edge 1 (Top)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5785MHz; Medium parameters used: f = 5800 MHz; σ= 5.23mho/m; εr =36.41; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11a CH157- Edge 1 (Top) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11a CH157- Edge 1 (Top) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

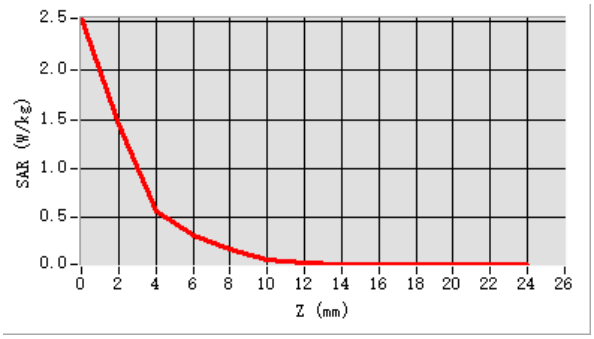
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 1 (Top)
Band	5800MHz
Channels	CH157
Signal	Crest factor: 1.0

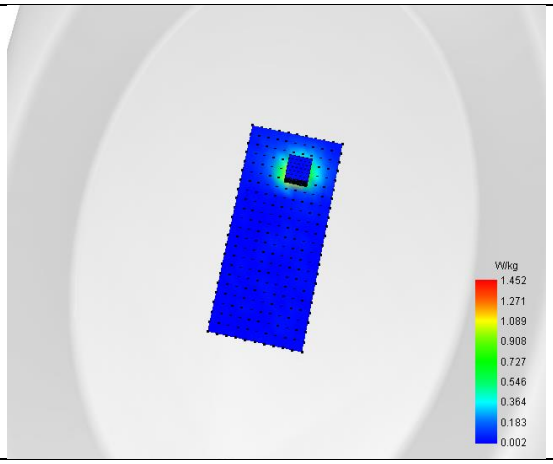
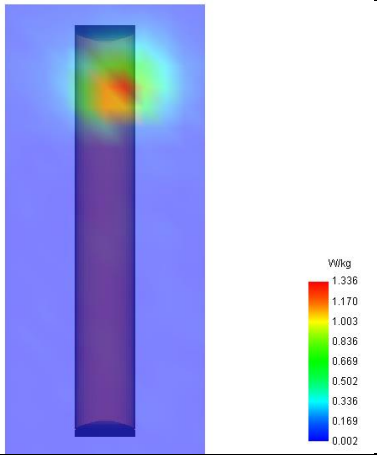
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=69.00 ; SAR Peak: 2.75 W/kg

SAR 10g (W/Kg)	0.311
SAR 1g (W/Kg)	0.853
Variation (%)	3.350
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.412050

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.532	1.452	0.571	0.325	0.175	0.075	0.044	0.026	0.029	0.033	0.033	0.026



3D screen shot	Hot spot position
	

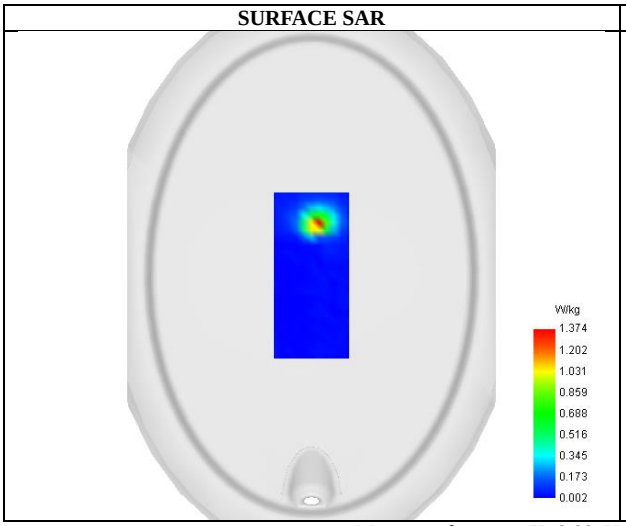
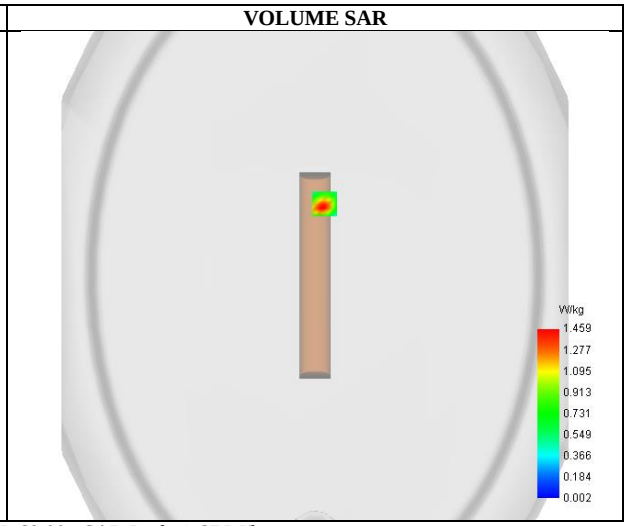
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11a CH165-Edge 1 (Top)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5825MHz; Medium parameters used: f = 5800 MHz; σ= 5.33mho/m; εr =35.13; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11a CH165- Edge 1 (Top) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11a CH165- Edge 1 (Top) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

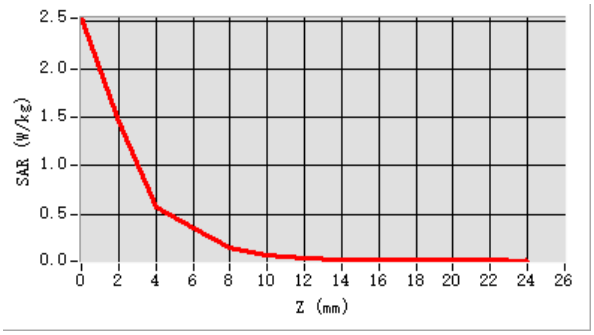
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 1 (Top)
Band	5800MHz
Channels	CH165
Signal	Crest factor: 1.0

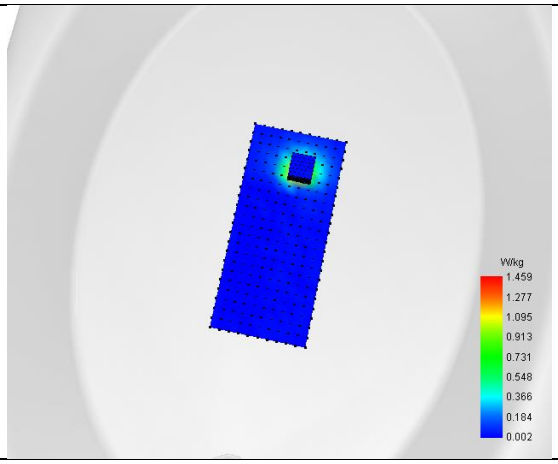
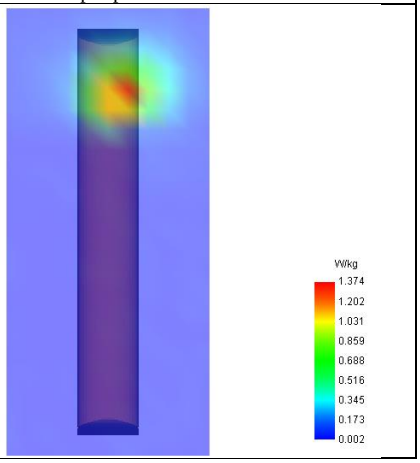
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=69.00 ; SAR Peak: 2.67 W/kg

SAR 10g (W/Kg)	0.309
SAR 1g (W/Kg)	0.859
Variation (%)	-61.580
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	48.082274

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.537	1.459	0.572	0.349	0.148	0.067	0.038	0.025	0.023	0.030	0.020	0.029



3D screen shot	Hot spot position
	

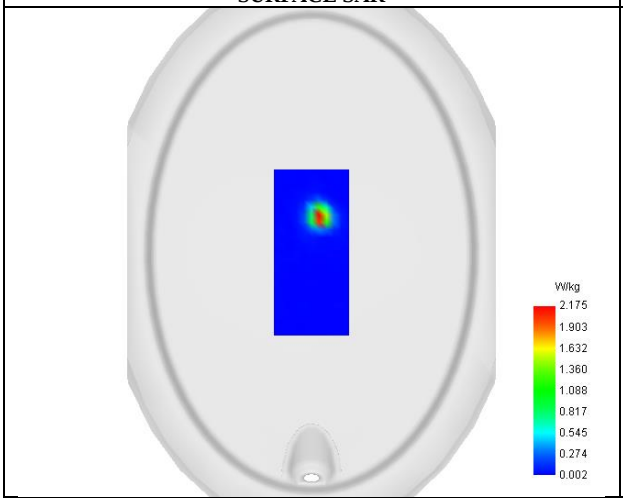
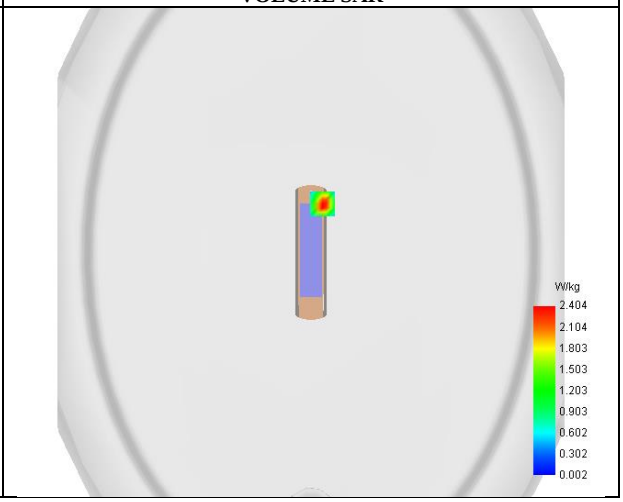
Module WCN6856-ANT2
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11a CH149-Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5745MHz; Medium parameters used: f = 5800 MHz; σ= 5.18mho/m; εr =36.82; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11a CH149- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11a CH149- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

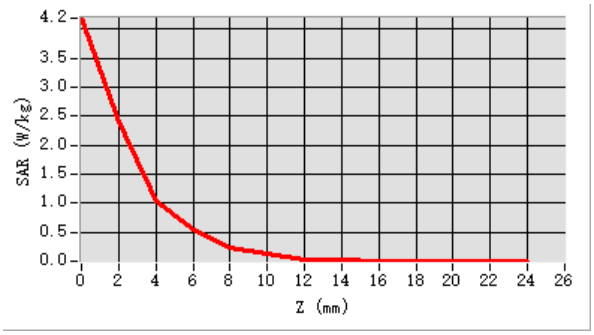
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	5800MHz
Channels	CH149
Signal	Crest factor: 1.0

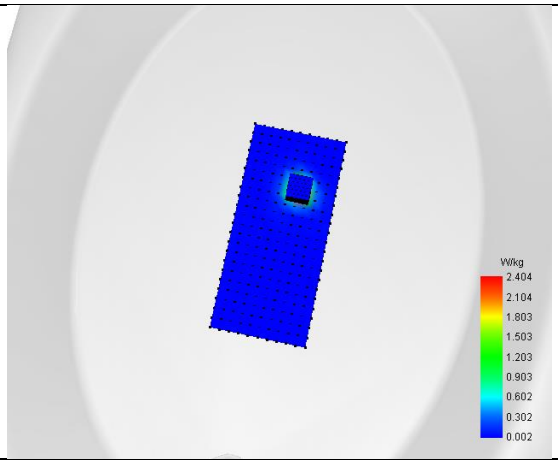
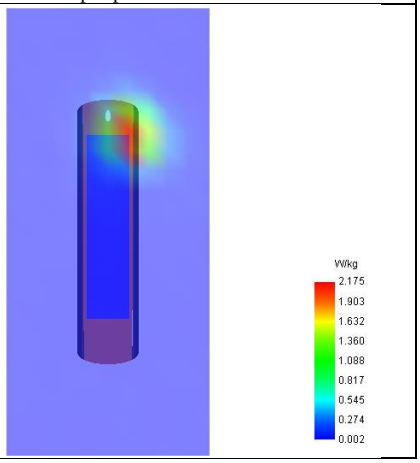
SURFACE SAR	VOLUME SAR
	

Maximum location: X=11.00, Y=47.00 ; SAR Peak: 4.58 W/kg

SAR 10g (W/Kg)	0.479
SAR 1g (W/Kg)	1.409
Variation (%)	-72.450
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	48.071062

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	4.187	2.404	1.026	0.547	0.239	0.141	0.030	0.031	0.006	0.009	0.002	0.010



3D screen shot	Hot spot position
	

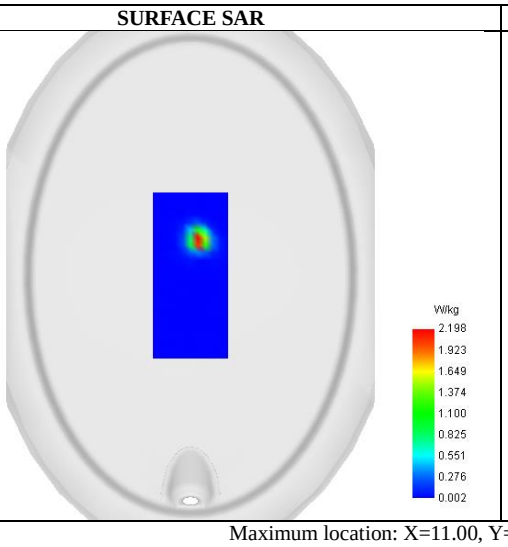
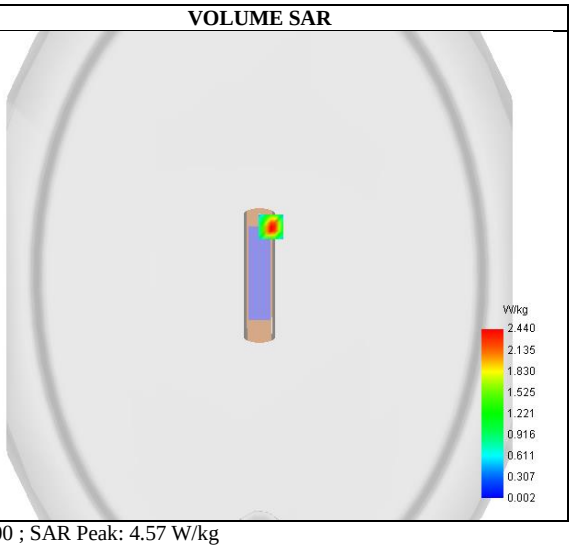
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11a CH165-Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5825MHz; Medium parameters used: f = 5800 MHz; σ= 5.33mho/m; εr =35.13; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11a CH165- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11a CH165- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

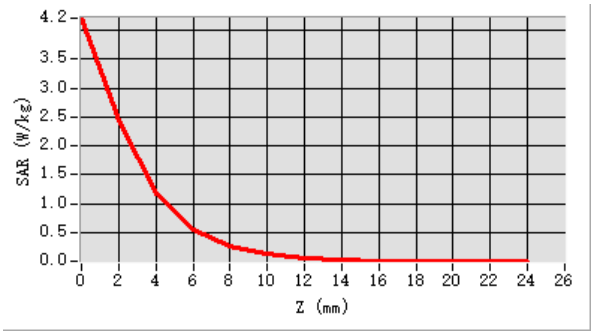
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	5800MHz
Channels	CH165
Signal	Crest factor: 1.0

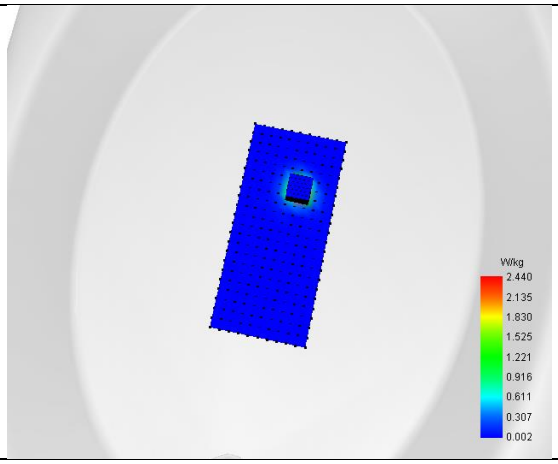
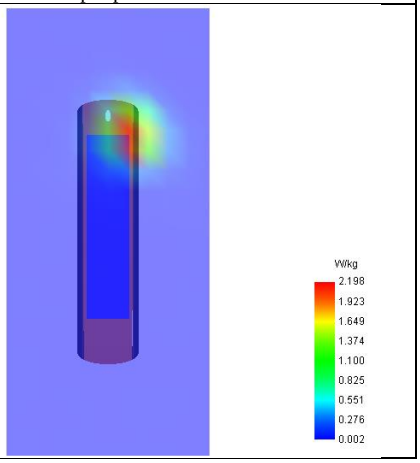
SURFACE SAR	VOLUME SAR
	

Maximum location: X=11.00, Y=47.00 ; SAR Peak: 4.57 W/kg

SAR 10g (W/Kg)	0.490
SAR 1g (W/Kg)	1.425
Variation (%)	-72.280
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	48.145126

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	4.210	2.440	1.175	0.557	0.267	0.125	0.059	0.019	0.007	0.008	0.008	0.003



3D screen shot	Hot spot position
	

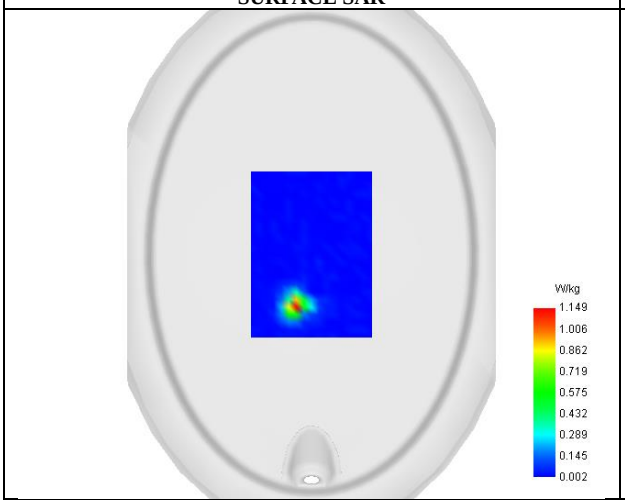
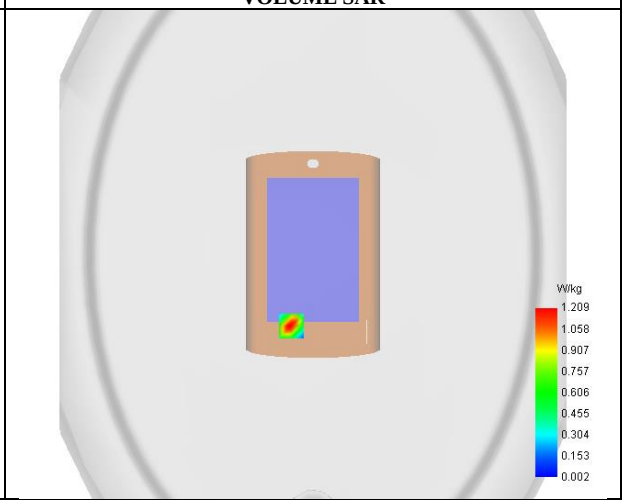
Module AP6398P-ANT1
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11ac40 CH151-Body back
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11ac40; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5755MHz; Medium parameters used: f = 5800 MHz; σ= 5.21mho/m; εr =36.69; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11ac40 CH151-Body back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11ac40 CH151-Body back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

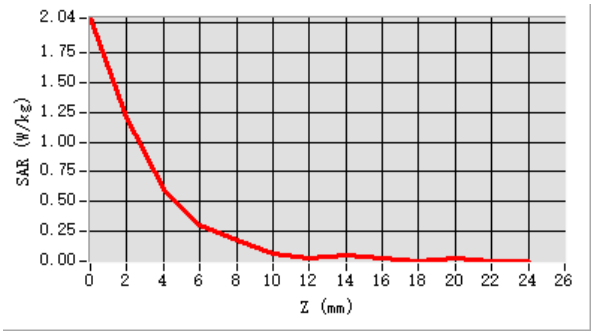
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Body back
Band	5800MHz
Channels	CH151
Signal	Crest factor: 1.0

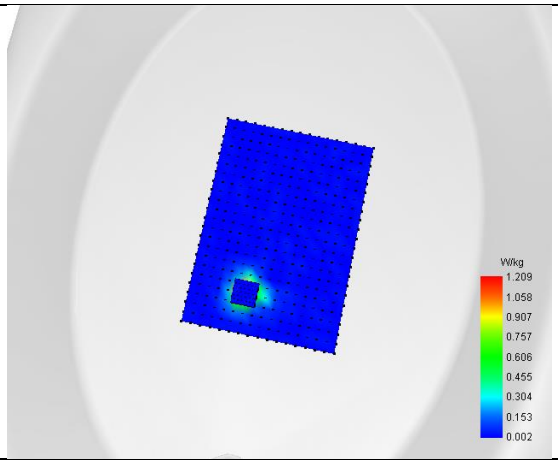
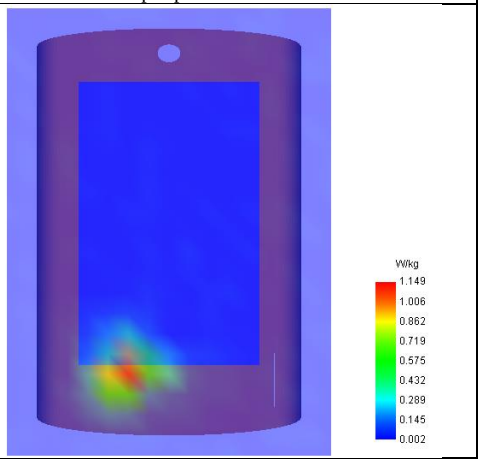
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-21.00, Y=-69.00 ; SAR Peak: 2.24 W/kg

SAR 10g (W/Kg)	0.253
SAR 1g (W/Kg)	0.707
Variation (%)	78.780
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	49.915386

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.038	1.209	0.604	0.306	0.183	0.070	0.030	0.047	0.022	0.002	0.033	0.002



3D screen shot	Hot spot position
	

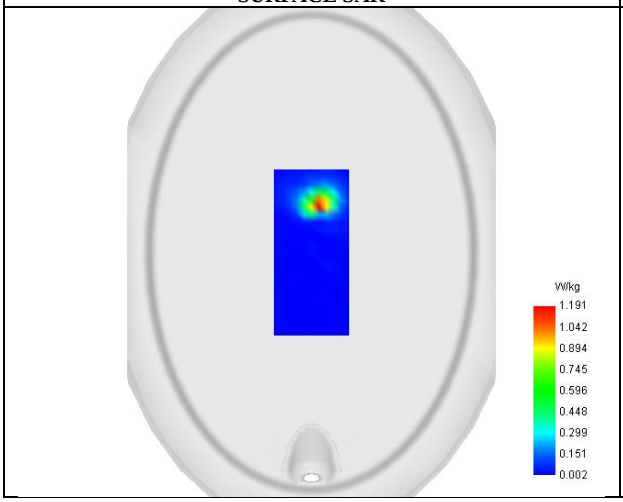
Module WCN6856-ANT1
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11ac40 CH159-Edge 1 (Top)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11ac40; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5795MHz; Medium parameters used: f = 5800 MHz; σ= 5.27mho/m; εr =36.22; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11ac40 CH159- Edge 1 (Top) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11ac40 CH159- Edge 1 (Top) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

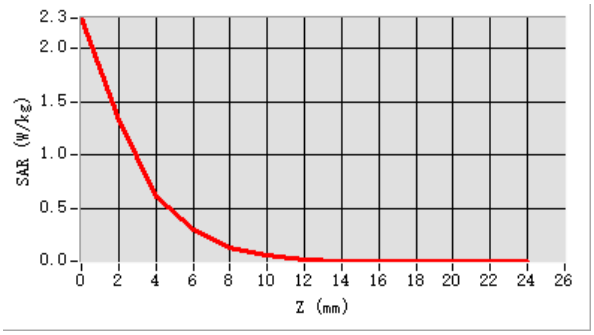
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 1 (Top)
Band	5800MHz
Channels	CH159
Signal	Crest factor: 1.0

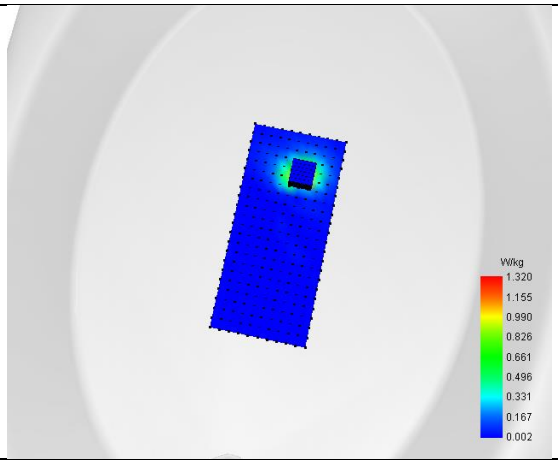
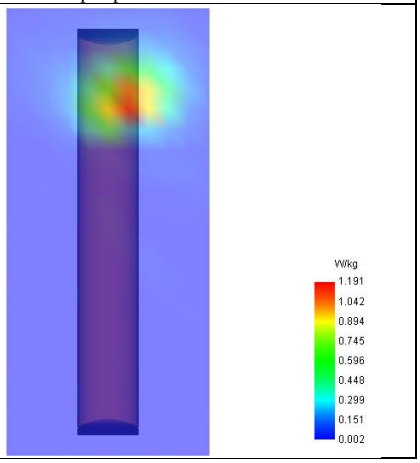
SURFACE SAR	VOLUME SAR
	

Maximum location: X=11.00, Y=63.00 ; SAR Peak: 2.54 W/kg

SAR 10g (W/Kg)	0.270
SAR 1g (W/Kg)	0.764
Variation (%)	-67.110
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	46.484675

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.284	1.320	0.613	0.296	0.130	0.065	0.012	0.005	0.002	0.002	0.007	0.003



3D screen shot	Hot spot position
	

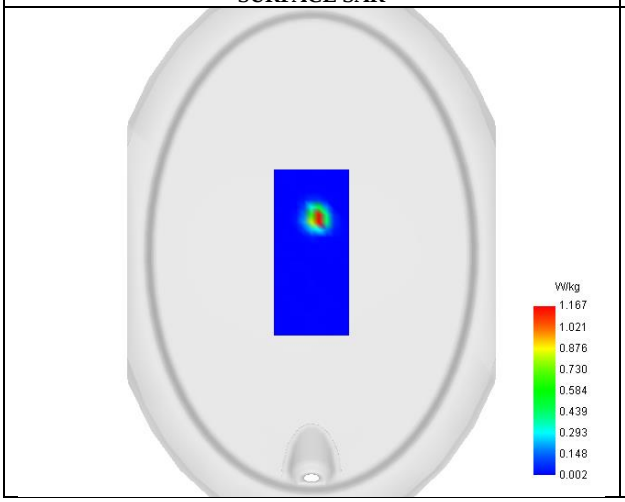
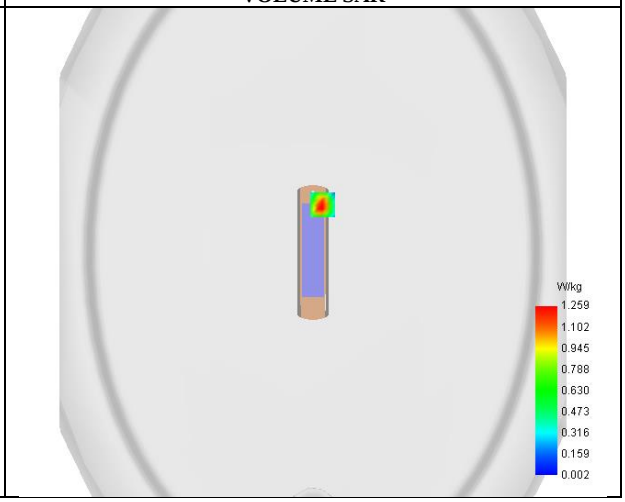
Module WCN6856-ANT2
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11ac40 CH159-Edge 4 (Left)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11ac40; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5795MHz; Medium parameters used: f = 5800 MHz; σ= 5.27mho/m; εr =36.22; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11ac40 CH159- Edge 4 (Left) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11ac40 CH159- Edge 4 (Left) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

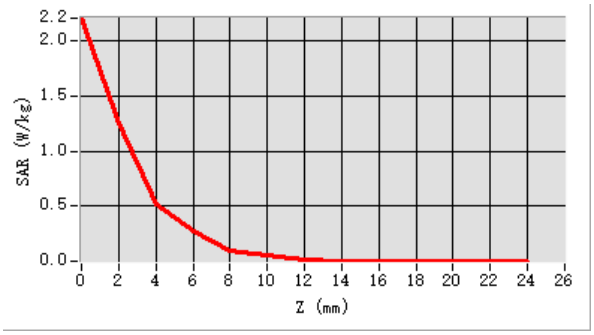
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 4 (Left)
Band	5800MHz
Channels	CH159
Signal	Crest factor: 1.0

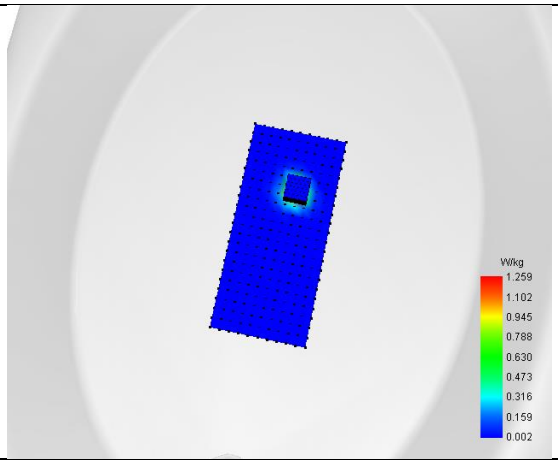
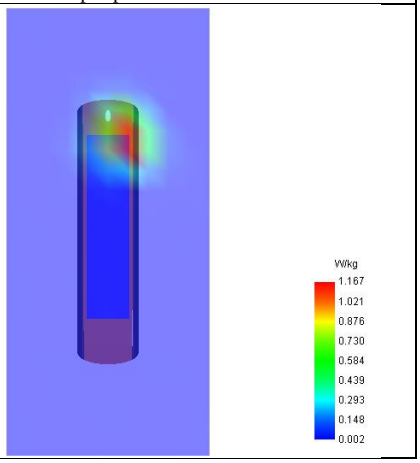
SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=46.00 ; SAR Peak: 2.35 W/kg

SAR 10g (W/Kg)	0.236
SAR 1g (W/Kg)	0.723
Variation (%)	-44.490
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.458115

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.208	1.259	0.522	0.277	0.103	0.056	0.012	0.003	0.003	0.003	0.007	0.007



3D screen shot	Hot spot position
	

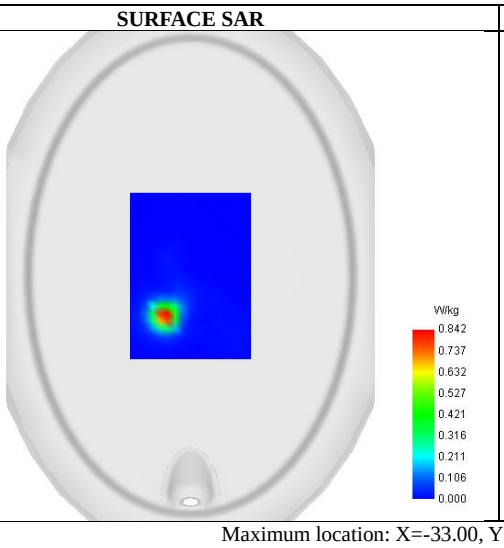
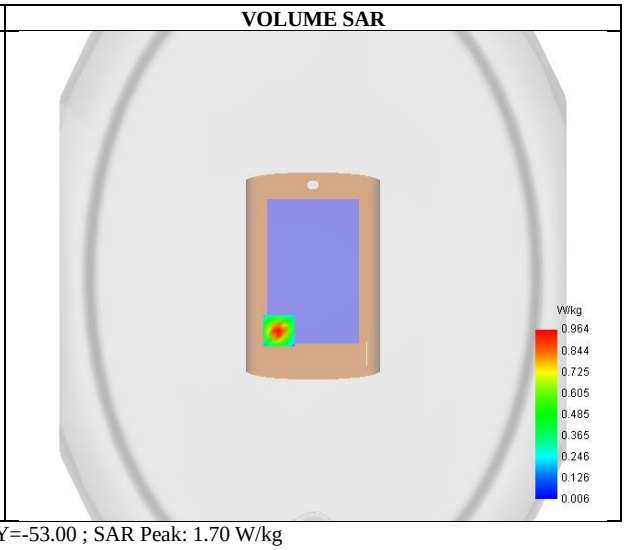
Repeated SAR
Module AP6398P-ANT1
Test Laboratory: AGC Lab **Date: Jun. 14, 2025**
802.11b Mid- Body back
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29; Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ= 1.75mho/m; εr =39.12; ρ= 1000 kg/m^3 ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11b Mid- Body back /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Mid- Body back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

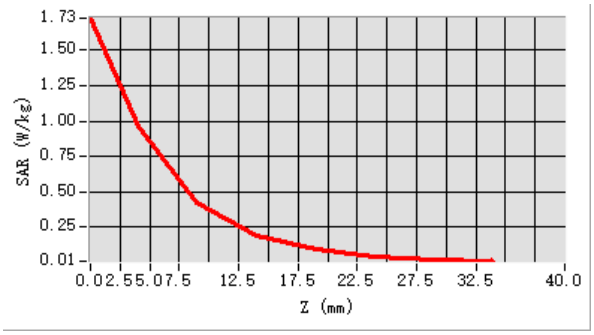
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI39
Device Position	Body back
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0

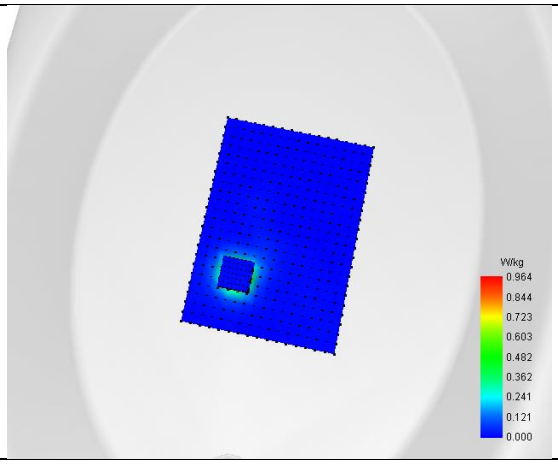
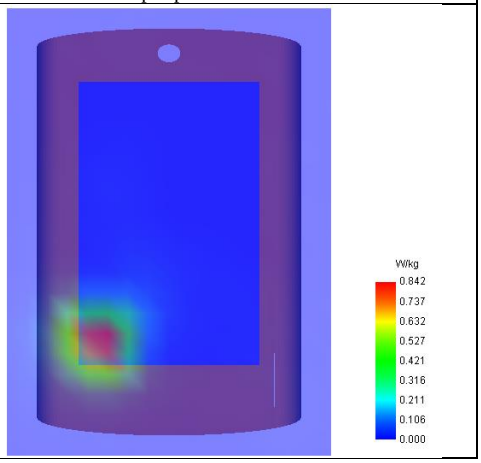
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-33.00, Y=-53.00 ; SAR Peak: 1.70 W/kg

SAR 10g (W/Kg)	0.394
SAR 1g (W/Kg)	0.889
Variation (%)	-7.290
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	44.169598

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.726	0.964	0.426	0.194	0.092	0.042	0.023



3D screen shot	Hot spot position
	

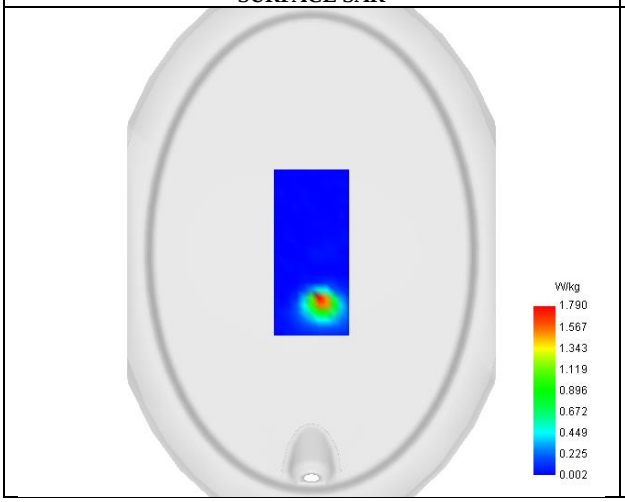
Module AP6398P-ANT1
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11a CH165-Edge 1 (Top)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5825MHz; Medium parameters used: f = 5800 MHz; σ= 5.33mho/m; εr =35.13; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11a CH165- Edge 1 (Top) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11a CH165- Edge 1 (Top) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

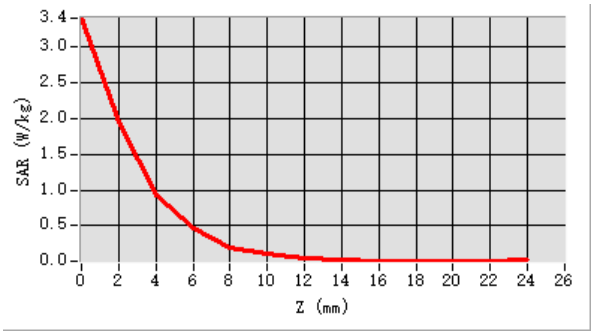
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 1 (Top)
Band	5800MHz
Channels	CH165
Signal	Crest factor: 1.0

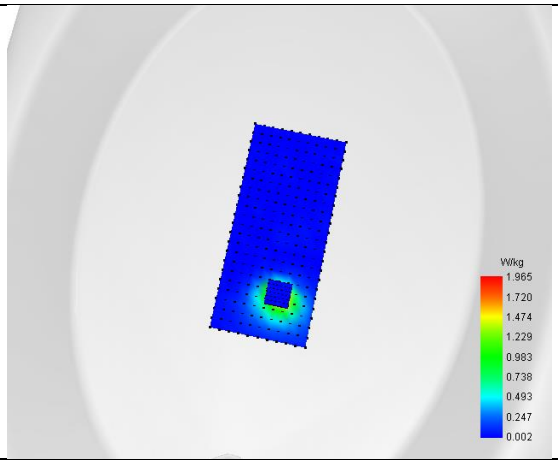
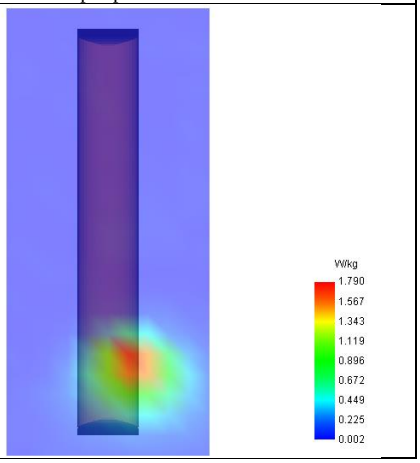
SURFACE SAR	VOLUME SAR
	

Maximum location: X=12.00, Y=-63.00 ; SAR Peak: 3.70 W/kg

SAR 10g (W/Kg)	0.431
SAR 1g (W/Kg)	1.149
Variation (%)	-70.430
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	46.847596

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.400	1.965	0.921	0.464	0.205	0.107	0.047	0.025	0.014	0.007	0.008	0.008



3D screen shot	Hot spot position
	

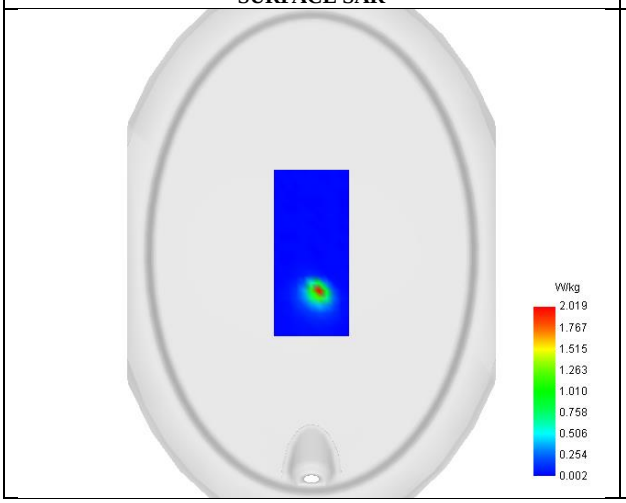
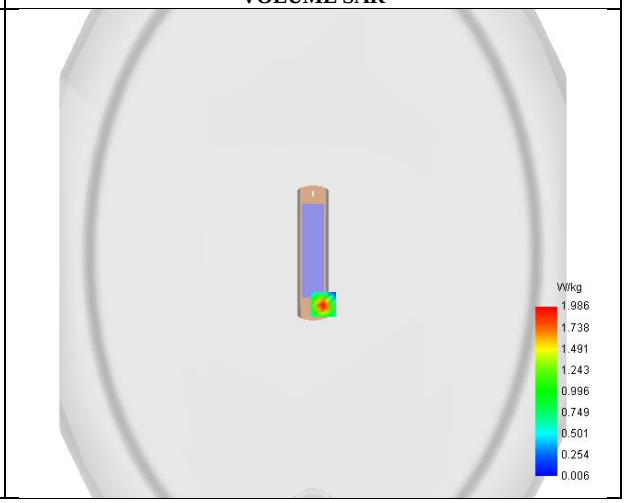
Module AP6398P-ANT2
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11a CH48- Edge 2 (Right)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5240MHz; Medium parameters used: f = 5250 MHz; σ= 4.54mho/m; εr =35.11; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11a CH48- Edge 2 (Right) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11a CH48- Edge 2 (Right) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

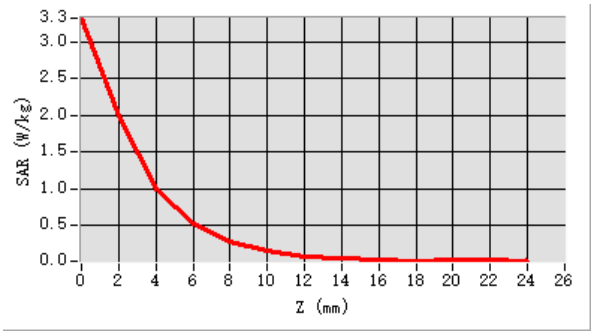
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 2 (Right)
Band	5200MHz
Channels	CH48
Signal	Crest factor: 1.0

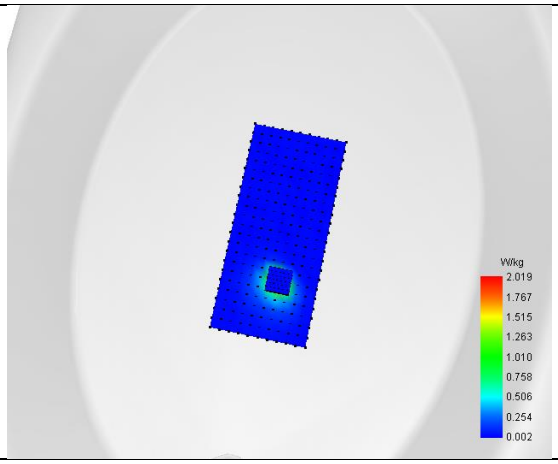
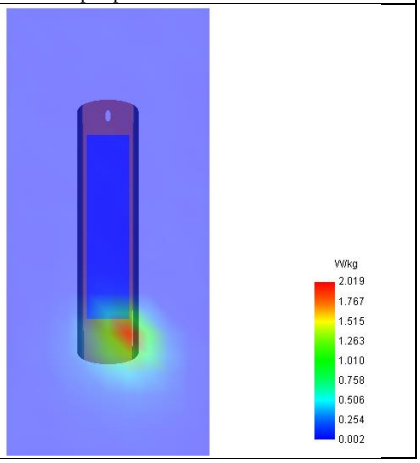
SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=-50.00 ; SAR Peak: 3.62 W/kg

SAR 10g (W/Kg)	0.398
SAR 1g (W/Kg)	1.150
Variation (%)	8.370
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	49.604054

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.326	1.986	0.985	0.532	0.273	0.145	0.078	0.044	0.023	0.010	0.032	0.022



3D screen shot	Hot spot position
	

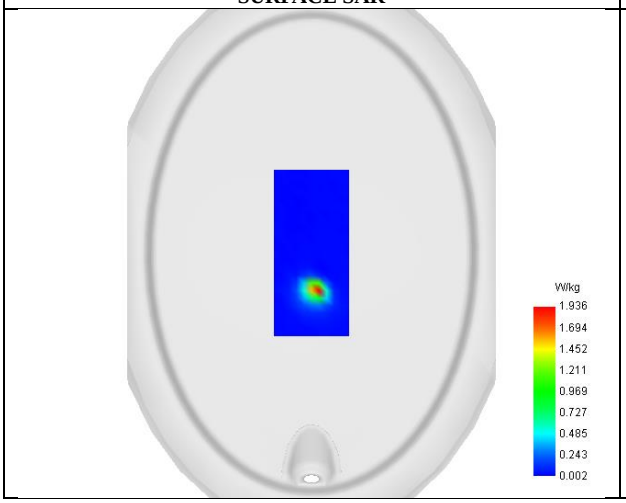
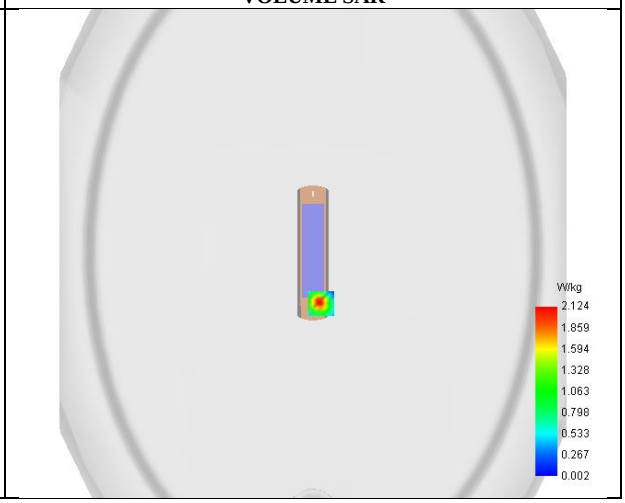
Module AP6398P-ANT2
Test Laboratory: AGC Lab **Date: Jun. 12, 2025**
802.11 ac20 CH48- Edge 2 (Right)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11 ac20; Duty Cycle: 1:1; Conv.F=1.54; Frequency: 5240MHz; Medium parameters used: f = 5250 MHz; σ= 4.54mho/m; εr =35.11; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/802.11 ac20 CH48- Edge 2 (Right) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11 ac20 CH48- Edge 2 (Right) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

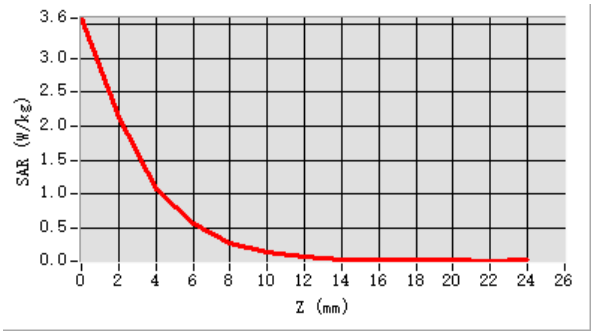
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 2 (Right)
Band	5200MHz
Channels	CH48
Signal	Crest factor: 1.0

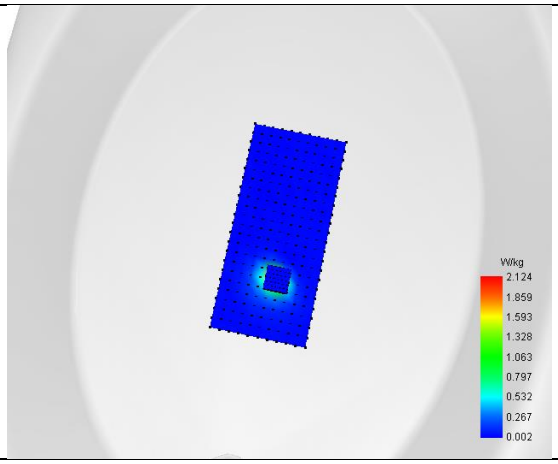
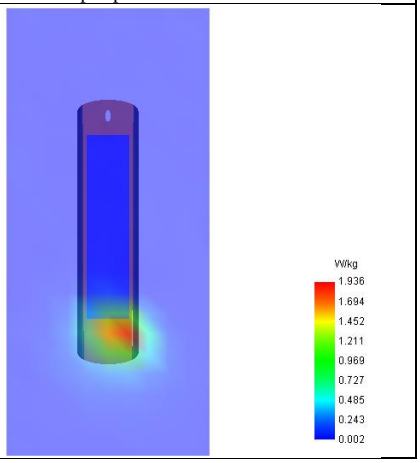
SURFACE SAR	VOLUME SAR
	

Maximum location: X=8.00, Y=-49.00 ; SAR Peak: 4.00 W/kg

SAR 10g (W/Kg)	0.411
SAR 1g (W/Kg)	1.234
Variation (%)	-55.620
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.529258

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.588	2.124	1.073	0.554	0.275	0.143	0.068	0.035	0.037	0.021	0.026	0.009



3D screen shot	Hot spot position
	

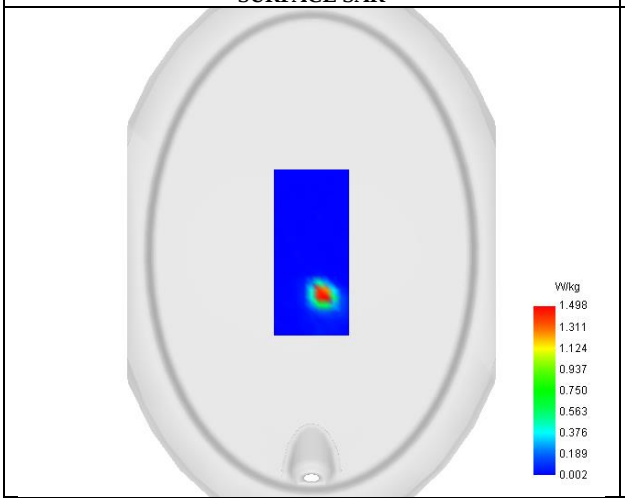
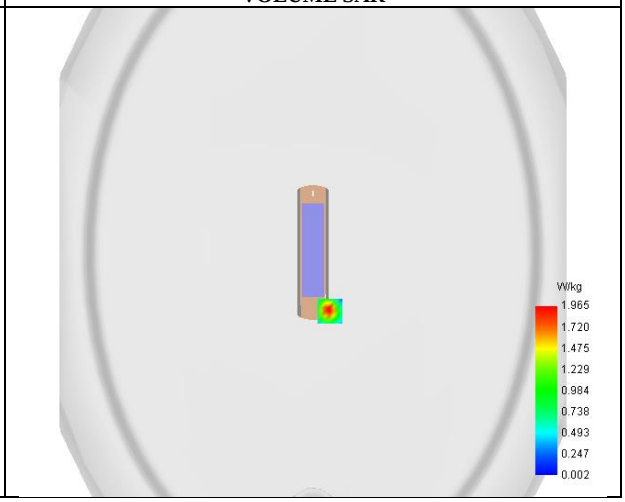
Module AP6398P-ANT2
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11ac40 CH159-Edge 2 (Right)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11ac40; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5795MHz; Medium parameters used: f = 5800 MHz; σ= 5.27mho/m; εr =36.22; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11ac40 CH159- Edge 2 (Right) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11ac40 CH159- Edge 2 (Right) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

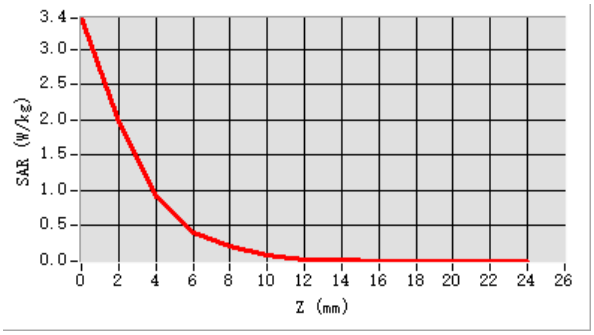
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 2 (Right)
Band	5800MHz
Channels	CH159
Signal	Crest factor: 1.0

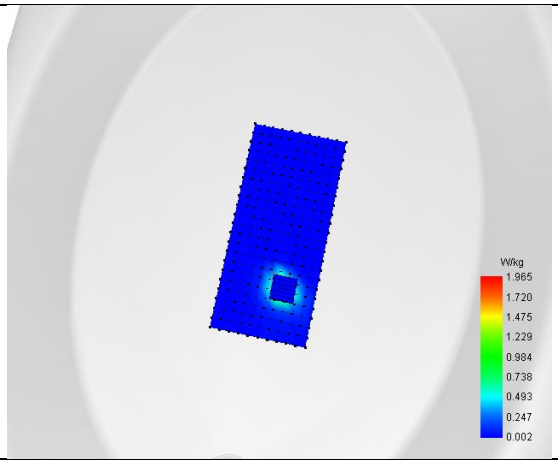
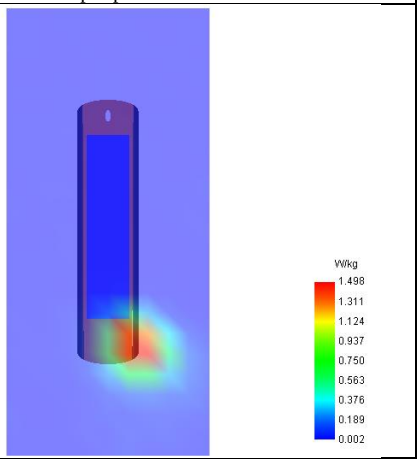
SURFACE SAR	VOLUME SAR
	

Maximum location: X=16.00, Y=-57.00 ; SAR Peak: 3.86 W/kg

SAR 10g (W/Kg)	0.377
SAR 1g (W/Kg)	1.107
Variation (%)	-62.590
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	45.938776

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.435	1.965	0.903	0.411	0.203	0.085	0.027	0.015	0.011	0.003	0.011	0.002



3D screen shot	Hot spot position
	

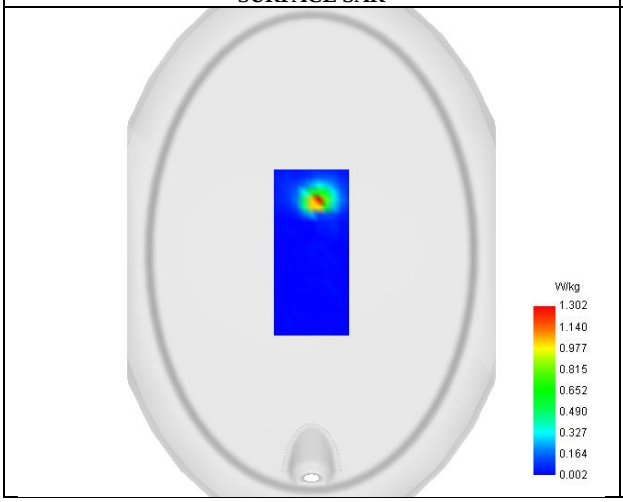
Module WCN6856-ANT1
Test Laboratory: AGC Lab **Date: Jun. 13, 2025**
802.11a CH165-Edge 1 (Top)
DUT: NEXT LEVEL DIAGNOSTICS & ANALYSIS SYSTEM; Type: MaxiSys MS909S2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41; Frequency: 5825MHz; Medium parameters used: f = 5800 MHz; σ= 5.33mho/m; εr =35.13; ρ= 1000 kg/m³ ; Phantom section: Flat Section

SATIMO Configuration:
- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ 802.11a CH165- Edge 1 (Top) /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ 802.11a CH165- Edge 1 (Top) /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	ELLI
Device Position	Edge 1 (Top)
Band	5800MHz
Channels	CH165
Signal	Crest factor: 1.0

SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=69.00 ; SAR Peak: 2.71 W/kg

SAR 10g (W/Kg)	0.308
SAR 1g (W/Kg)	0.839
Variation (%)	-75.310
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.976162