

Report No.: 18220WC30261901 FCC ID: 2AWJK-WMT-H26 Page 1 of 95

FCC SAR Test Report

Applicant

: Grastron Technology CO., LTD

Address

401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101 China

Product Name

Wireless Presentation System

Date

Jan. 26, 2024



Shenzhen Anbotek Compliance Laboratory Limited

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Applicant	: Grastron Technology CO., LTD
Manufacturer	: Grastron Technology CO., LTD
Product Name	: Wireless Presentation System
	WMT-H26, DG-H20, DG-H21, DG-H22, DG-H23, DG-H24, DG-H25, DG-H26,
Model No.	: DG-H27, DG-H28, DG-H29, WMT-H20, WMT-H21, WMT-H22, WMT-H23, WMT-H24, WMT-H25, WMT-H27, WMT-H28, WMT-H29
Trade Mark	N/A month month month month month month
Rating(s)	: Input: 5V=0.7A

Test Standard(s) : IEC/IEEE 62209-1528:2020; FCC 47 CFR Part 2.1093; ANSI/IEEE C95.1:2005; Reference FCC KDB 447498; KDB 248227; KDB 616217

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the IEC/IEEE 62209-1528:2020, FCC 47 CFR Part 2.1093, ANSI/IEEE C95.1:2005 and Reference KDB 447498, KDB 248227, KDB 616217 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt Date of Test Dec.18 , 2023 Dec.18 - 20 , 2023

Prepared By

Lian Ella

(Ella Liang)

Bolward pom

Approved & Authorized Signer

(Edward Pan)

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Version No.	Date	Description
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1. Statement of Compliance

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

Frequency Band	Highe	st Reported 1g-SAR(W/Kg)	SAR Test Limit
		Body-worn(0mm)	(W/Kg)
WIFI 2.4G ANT 1	PUP POR	0.553	ek andoten And
WIFI 2.4G ANT 2	Anbo	0.669	ntek anbotek anbor
WIFI 5.2G ANT 1	lek Aupon	0.736	rek nbotek Anbo
WIFI 5.2G ANT 2	ootek Anbore	0.754	particular and a particular particular
WIFI 5.8G ANT 1	hotek Anbote	0.707	Antonia Ana 1.6
WIFI 5.8G ANT 2	Ann otek anb	0.790	Anbor And And
Simultaneous 2.4G	Anne	1.222	k Antoten Ano
Simultaneous 5G	Anbo	1.497	otek unbotek Anbo
Test Result	Anbon ok	PASS	stek sobotek phon

<Highest SAR Summary>

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in KDB 447498 D01 v06, 2015 and ANSI/IEEE C95.1:2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

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2. General Information

2.1 Client Information

Applicant	: Grastron Technology CO., LTD
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Manufacturer	: Grastron Technology CO., LTD
Address	 401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101 China
Factory	: Grastron Technology CO., LTD
Address	 401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101 China

2.2 Description of Equipment Under Test (EUT)

Product Name	:	Wireless Presentation System	4
Model No.	:	WMT-H26, DG-H20, DG-H21, DG-H22, DG-H23, DG-H24, DG-H25, DG-H26 DG-H27, DG-H28, DG-H29, WMT-H20, WMT-H21, WMT-H22, WMT-H23, WMT-H24, WMT-H25, WMT-H27, WMT-H28, WMT-H29 (Note: All samples are the same except the model number and appearance color, so we prepare "WMT-H26" for test only.)	inter A
Trade Mark	:	N/A house hubble hubble hubble hubble hubble hubble	6
Test Power Supply	:	DC 5V via PC	Noto
Test Sample No.	:	1-2-2(Engineering Sample)	560
Product		WiFi 2.4G: 2412~2462MHz for 802.11b/g/n20/ax20 Operation 2422~2452MHz for 802.11n40/ax40 Frequency: WiFi 5.2G: 5180~5240MHz WiFi 5.8G: 5745~5825MHz	p.s
Description	:	Number of Channel: WiFi 2.4G: 11 Channels for 802.11b/g/n20/ax20 7 channels for 802.11n40/ax40 WiFi 5.2G:	nboti Ant

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Anbo

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thotels Anbor	4 Channels for 802.11b/g/n20/ax20
Ann stek pabo	2 Channels for 802.11n40/ac40/ax40
Andus	1 Channel for 802.11ac80/ax80
ek Anboie An	WiFi 5.8G:
Solielk Appender	5 Channels for 802.11b/g/n20/ax20
stek subotek	2 Channels for 802.11n40/ac40/ax40
Anboy ink indek	1 Channel for 802.11ac80/ax80
Anihou y Bo you	WiFi 2.4G: CCK, DQPSK, DBPSK for DSSS;
to polyage - Anton	64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Type:	WiFi 5G:
NY shales	OFDM with BPSK, QPSK, 16QAM, 64QAM, 256QAM
Remark: 1) For a more detailed features desc	ription, please refer to the manufacturer's specifications or
the User's Manual.	

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2.3 Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

2.4 Applied Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

IEC/IEEE 62209-1528:2020

ANSI/IEEE C95.1:2005

FCC 47 CFR Part 2.1093

Reference FCC KDB 447498; KDB 248227; KDB 616217

2.5 Environment of Test Site

Items	Required	Actual
Temperature (°C)	18-25	22~23
Humidity (%RH)	30-70	55~65

2.6 Test Configuration

For WIFI and Bluetooth SAR testing, engineering testing software installed on the EUT can provide continuous transmitting RF signal.

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2.7 Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

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3. Specific Absorption Rate (SAR)

3.1 Introduction

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

3.2 SAR Definition

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

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

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

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

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

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

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

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

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

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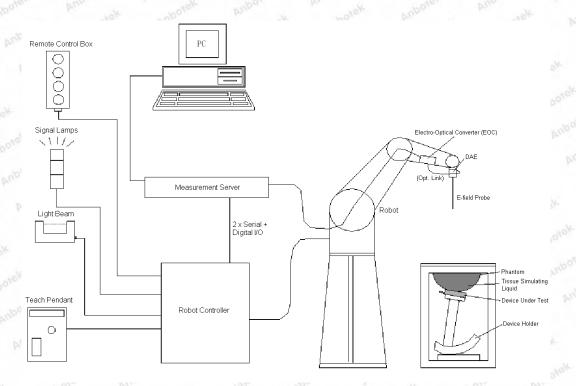
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4. SAR Measurement System



DASY System Configurations

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

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

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Report No.: 18220WC30261901 FCC ID: 2AWJK-WMT-H26 Page 13 of 95 > Dipole for evaluating the proper functioning of the system

components are described in details in the following sub-sections.

4.1 E-Field Probe

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

Construction	Symmetrical design with triangular core	The second se	e pr
	Built-in shielding against static charges	at and	
	PEEK enclosure material (resistant to	and the	
	organic solvents, e.g., DGBE)		
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB	2 T	ler.
Directivity	± 0.3 dB in HSL (rotation around probe		apti
	axis)		
	± 0.5 dB in tissue material (rotation	N-	Pri
	normal to probe axis)	distant in the second s	
Dynamic Range	10 μ W/g to 100 mW/g; Linearity: ± 0.2		
	dB (noise: typically < 1 μW/g)	unbo	- Ph
Dimensions	Overall length: 330 mm (Tip: 20 mm)	Photo of EX3DV4	
	Tip diameter: 2.5 mm (Body: 12 mm)		
	Typical distance from probe tip to dipole		
	centers: 1 mm	pint stek subotek	

E-Field Probe Specification

E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than \pm 10%. The spherical isotropy shall be evaluated and within \pm 0.25dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix C of this report.

4.2 Data Acquisition Electronics (DAE)

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

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The input impedance of the DAE is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



Photo of DAE

4.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60XL) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- > High precision (repeatability ±0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- > Low ELF interference (the closed metallic construction shields against motor control fields)



Photo of DASY5

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4.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chip disk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Photo of Server for DASY5

4.5 Phantom

<SAM Twin Phantom>

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

Photo of SAM 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.

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Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis:400 mm	
	Photo of ELI4 Phantom	5

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating liquids.

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4.6 Device Holder

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of $\pm 20\%$. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

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

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity ε = 3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



Device Holder

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4.7 Data Storage and Evaluation

Data Storage

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

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

Data Evaluation

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

	Probe	parameters:
--	-------	-------------

- Sensitivity Norm_i, a_{i0}, a_{i1}, a_{i2} - Conversion factor ConvF_i

σ

ρ

cf

- Diode compression point dcpi

Device parameters: - Frequency

Media parameters:

- Density

- Crest factor

Conductivity

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

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

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The formula for each channel can be given as:

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

with V_i = compensated signal of channel i, (i = x, y, z)

 U_i = input signal of channel i, (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp_i = diode compression point (DASY parameter)

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

E-field Probes: E_i

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$$es: E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

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

with V_i = compensated signal of channel i,(i = x, y, z) Norm_i= sensor sensitivity of channel i, (i = x, y, z), $\mu V/(V/m)^2$ for E-field Probes

ConvF= sensitivity enhancement in solution

a_{ij}= sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

E_i= electric field strength of channel i in V/m

H_i= magnetic field strength of channel i in A/m

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

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

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

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

with SAR = local specific absorption rate in mW/g

Etot= total field strength in V/m

 σ = conductivity in [mho/m] or [Siemens/m]

 ρ = equivalent tissue density in g/cm³

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

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5. Test Equipment List

Monufacturer	Nome of Equipment	Turse/Medal	Carial Number	Calibration		
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date	
SPEAG	5GHz System Validation Kit	D5GHzV2	1160	Oct. 02, 2021	Oct. 01, 2024	
SPEAG	2450MHz System Validation Kit	D2450V2	910	Jun. 15,2021	Jun. 14,2024	
SPEAG	Data Acquisition Electronics	DAE4	387	Sept.06,2023	Sept.05,2024	
SPEAG	Dosimetric E-Field Probe	EX3DV4	7396	May 06,2023	May 05,2024	
Agilent	ENA Series Network Analyzer	E5071C	MY46317418	Oct.26, 2023	Oct.25, 2024	
SPEAG	DAK	DAK-3.5	1226	NCR	NCR	
SPEAG	ELI Phantom	QDOVA004AA	2058	NCR	NCR	
AR	Amplifier	ZHL-42W	QA1118004	NCR	NCR	
Agilent	Power Sensor	N8481H	MY51240001	Oct.26, 2023	Oct.25, 2024	
Agilent	Spectrum Analyzer	N9020A	MY51170037	Oct.12, 2023	Oct.11, 2024	
Agilent	Signal Generation	N5182A	MY47420647	Feb.23, 2023	Feb.22, 2024	
Worken	Directional Coupler	0110A05601O-10	COM5BNW1A2	Oct.26, 2023	Oct.25, 2024	

Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.

2. The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.

3. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.

- 4. The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Agilent.
- 5. In system check we need to monitor the level on the power meter, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1W input power according to the ratio of 1W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the power meter is critical and we do have calibration for it

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6. Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown as followed:



Photo of Liquid Height for Body SAR

The following table gives the recipes for tissue simulating liquid.

Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	(σ)	(ɛr)
				For Bo	dy			
2450	68.6		nbore 0	0 North	31.4	0.0010	1.95	52.7
5200	78.6	0	10.7	0	10.7	0 pintol	5.27	49.0
5800	78.5	0	10.8	0,000	10.7	Ne ^M O p	6.00	48.2

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	Measured	Target T	issue		Measure	ed Tissue		Liquid	
Tissue Type	Frequenc y (MHz)	٤r	σ	٤r	Dev. (%)	σ	Dev. (%)	Temp. (°C)	Test Date
2450MSL	2450	52.70	1.95	52.14	-1.07	1.88	-3.72	22.5	12/18/2023
5200MSL	5200	49.00	5.27	48.23	-1.60	5.20	-1.35	22.6	12/19/2023
5800MSL	5800	48.20	6.00	48.54	0.70	5.74	-4.53	22.7	12/20/2023

The following table shows the measuring results for simulating liquid.

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7. System Verification Procedures

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

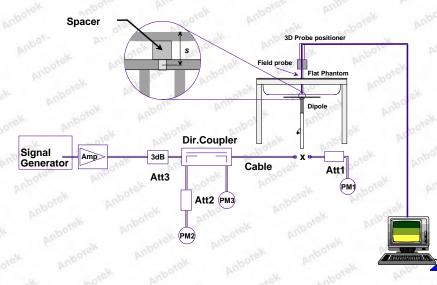
Purpose of System Performance check

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

System Setup

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



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Photo of Dipole Setup

Validation Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10%. The table below shows the target SAR and measured SAR after normalized to 1W input power. It indicates that the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

Frequenc y (MHz)	Liquid Type	Power fed onto reference dipole (mW)	Targeted SAR (W/kg)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Deviatio n (%)	Test Date
2450	Body	250	51.8	12.69	50.76	-2.01	12/18/2023
5200	Body	100	77.8	7.63	76.30	-1.93	12/19/2023
5800	Body	100	78.3	7.95	79.50	1.53	12/20/2023

Target and Measurement SAR after Normalized

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8. EUT Testing Position

8.1 Body Worn Position

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per KDB 648474 D04, bodyworn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01 v06, 2015 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is < 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body.

motherd tely

Body Worn Position

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mother phantom

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9. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the middle channel.
- (b) Keep EUT to radiate maximum output power or 100% duty factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as setup photos demonstrates.
- (e) Set scan area, grid size and other setting on the DASY software.
- (f) Measure SAR transmitting at the middle channel for all applicable exposure positions.
- (g) Identify the exposure position and device configuration resulting the highest SAR
- (h) Measure SAR at the lowest and highest channels at the worst exposure position and device configuration if applicable.

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

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

9.1 Spatial Peak SAR Evaluation

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

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

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

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

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- Report No.: 18220WC30261901 FCC ID: 2AWJK-WMT-H26 Page 27 of 95 sensor to surface
 - (f) Calculation of the averaged SAR within masses of 1g and 10g

9.2 Power Reference Measurement

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

9.3 Area Scan Procedures

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

	\leq 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^{\circ}\pm1^{\circ}$	$20^{\circ} \pm 1^{\circ}$
	\leq 2 GHz: \leq 15 mm 2 - 3 GHz: \leq 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution a x or y dimension of the test of measurement point on the te	on, is smaller than the above, must be \leq the corresponding device with at least one

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9.4 Zoom Scan Procedures

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Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes 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 1 gram and 10 gram and displays these values next to the job's label. Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			\leq 3 GHz	⇒ 3 GHz	
toto Ano	d.	aler and	Magin Mar	ban.	
Maximum zoom scan s	patial resc	plution: Δx_{Zoom} , Δy_{Zoom}	$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ 2 - 3 GHz: $\leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz:} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz:} \le 4 \text{ mm}^*$	
	uniform	grid: ∆z _{Zoom} (n)	\leq 5 mm	$3-4 \text{ GHz:} \leq 4 \text{ mm}$ $4-5 \text{ GHz:} \leq 3 \text{ mm}$ $5-6 \text{ GHz:} \leq 2 \text{ mm}$	
Maximum zoom scan spatial resolution, normal to phantom surface	esolution, 1 st two points closest		\leq 4 mm	3 – 4 GHz: ≤3 mm 4 – 5 GHz: ≤2.5 mm 5 – 6 GHz: ≤2 mm	
grid		∆z _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta$	Z _{Zoom} (n-1)	
Minimum zoom scan volume	x, y, z		\geq 30 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 <u>reported</u> 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.

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9.5 Volume Scan Procedures

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

9.6 Power Drift Monitoring

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

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10. Conducted Power

<WIFI 2.4GHz Conducted Power>

ANT 1:

Mode	Channel	Frequen cy (MHz)	Average Power(dBm)	Tune-Up Limit(dBm)	Test Rate Data
	4 1 abote	2412	12.69	13.00	1 Mbps
802.11 b	6	2437	12.73	13.00	1 Mbps
	11	2462	12.89	13.00	1 Mbps
	nboten p	2412	12.82	13.00	6 Mbps
802.11 g	6	2437	12.54	13.00	6 Mbps
	11.10K	2462	12.81	13.00	6 Mbps
	P1 stel	2412	12.79	13.00	MCS0
802.11 n20	6	2437	12.50	13.00	MCS0
	ret 11 Anos	2462	12.77	13.00	MCS0
	bote ^K 3 p	2422	13.18	13.50	MCS0
802.11 n40	6	2437	13.15	13.50	MCS0
	9. K	2452	13.22	13.50	MCS0
	Ang way	2412	12.89	13.00	MCS0
802.11 ax20	6000	2437	12.65	13.00	MCS0
	et 11 anbo	2462	12.77	13.00	MCS0
		2422	13.25	13.50	MCS0
802.11 ax40	6	2437	13.26	13.50	MCS0
	Pario 9	2452	13.19	13.50	MCS0

ANT 2:

Mode	Channel	Frequen cy (MHz)	Average Power(dBm)	Tune-Up Limit(dBm)	Test Rate Data
	And 1ak	2412	13.47	14.50	1 Mbps
802.11 b	6	2437	13.86	14.50	1 Mbps
	110010	2462	14.11	14.50	1 Mbps
	14 1 anboth	2412	13.89	14.50	6 Mbps
802.11 g	6	2437	13.99	14.50	6 Mbps
	11	2462	14.44	14.50	6 Mbps
802.11 n20	unboi 1	2412	13.85	14.50	MCS0

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	6	2437	14.10	14.50	MCS0
	11 JOK	2462	14.44	14.50	MCS0
	3	2422	14.29	15.00	MCS0
802.11 n40	6 p. 1001	2437	14.50	15.00	MCS0
	oter 9 port	2452	14.75	15.00	MCS0
	Mater	2412	13.96	14.50	MCS0
802.11 ax20	6	2437	14.08	14.50	MCS0
	pm ^b 11	2462	14.41	14.50	MCS0
	3	2422	14.42	15.00	MCS0
802.11 ax40	6	2437	14.56	15.00	MCS0
	9	2452	14.72	15.00	MCS0

MIMO:

Test Mode Channel	Freque ncy		ted Average C Power(dBm)	Maximum Tune-	Test Rate Data		
		(MHz)	Antenna 1	Antenna 2	Total	Up(dBm)	
	P. 1 _otek	2412	12.79	13.85	16.36	17.00	MCS0
802.11 n20	6	2437	12.50	14.10	16.38	17.00	MCS0
1	11 Ano	2462	12.77	14.44	16.70	17.00	MCS0
	otek 3 pr	2422	13.18	14.29	16.78	17.50	MCS0
802.11 n40	6	2437	13.15	14.50	16.89	17.50	MCS0
	9	2452	13.22	14.75	17.06	17.50	MCS0
	Ann 1 wak	2412	12.89	13.96	16.47	17.00	MCS0
802.11 ax20	6	2437	12.65	14.08	16.43	17.00	MCS0
ax20	* 11 phon	2462	12.77	14.41	16.68	17.00	MCS0
	and 3 and	2422	13.25	14.42	16.88	17.50	MCS0
802.11 ax40	6	2437	13.26	14.56	16.97	17.50	MCS0
ax+0	9	2452	13.19	14.72	17.03	17.50	MCS0

Note:

- 1. Per KDB 447498 D01 v06, the test distance less than 5mm
- 2. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.
- Per KDB 248227 D01, In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 2.4 GHz OFDM conditions:
 - 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
 - 2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is \leq 1.2 W/kg.

<WIFI 5GHz Conducted Power>

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ANT 1:

TestMode	Channel	Average Power[dBm]	Tune-Up Limit(dBm)	Test Rate Data	
puppor ak	5180	13.85	14.00	6M	
802.11a	5200	13.59	14.00	6M	
	5240	12.36	14.00	6M	
ntek nabotek	5180	13.92	14.00	MCS0	
802.11n20	5200	13.54	14.00	MCS0	
	5240	12.43	14.00	MCS0	
000 44 - 40	5190	13.90	14.00	MCS0	
802.11n40	5230	12.98	14.00	MCS0	
stek anbotek	5180	13.82	14.00	MCS0	
802.11ac20	5200	13.39	14.00	MCS0	
	5240	12.33	14.00	MCS0	
000 44 40	5190	14.07	14.50	MCS0	
802.11ac40	5230	13.04	14.50	MCS0	
802.11ac80	5210	14.67	15.00	MCS0	
W wotek	5180	14.94	15.00	MCS0	
802.11ax20	5200	14.63	15.00	MCS0	
	5240	13.47	15.00	MCS0	
000 11 av 10	5190	14.15	14.50	MCS0	
802.11ax40	5230	13.19	14.50	MCS0	
802.11ax80	5210	15.79	16.00	MCS0	

ANT 2:

TestMode	Channel	Average Power[dBm]	Tune-Up Limit(dBm)	Test Rate Data	
An wotek anboten	5180	14.11	14.50	6M	
802.11a	5200	13.69	14.50	6M	
	5240	12.64	14.50	6M	
ok Anboi Ai	5180	14.33	14.50	MCS0	
802.11n20	5200	13.54	14.50	MCS0	
	5240	12.49	14.50	MCS0	
mbb and a botek	5190	14.27	14.50	MCS0	
802.11n40	5230	13.26	14.50	MCS0	
Anboin An	5180	14.04	14.50	MCS0	
802.11ac20	5200	13.61	14.50	MCS0	
	5240	12.56	14.50	MCS0	

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Product Safety

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5190	14.41	14.50	MCS0
5230	13.44	14.50	MCS0
5210	15.07	15.50	MCS0
5180	15.06	15.50	MCS0
5200	14.72	15.50	MCS0
5240	13.73	15.50	MCS0
5190	14.40	15.00	MCS0
5230	13.41	15.00	MCS0
5210	14.96	15.00	MCS0
	5190 5230 5210 5180 5200 5240 5190 5230	519014.41523013.44521015.07518015.06520014.72524013.73519014.40523013.41	519014.4114.50523013.4414.50521015.0715.50518015.0615.50520014.7215.50524013.7315.50519014.4015.00523013.4115.00

MIMO:

Test Mode	Frequency				Maximum Tune-	Test Rate	
	(MHz)	Antenna 1	Antenna 2	Total	Up(dBm)	Data	
Ambore An	5180	13.92	14.33	17.14	17.50	MCS0	
802.11n20	5200	13.54	13.54	16.55	17.50	MCS0	
	5240	12.43	12.49	15.47	17.50	MCS0	
902 44=40	5190	13.90	14.27	17.10	17.50	MCS0	
802.11n40	5230	12.98	13.26	16.13	17.50	MCS0	
hotek Anbore	5180	13.82	14.04	16.94	17.00	MCS0	
802.11ac20	5200	13.39	13.61	16.51	17.00	MCS0	
	5240	12.33	12.56	15.46	17.00	MCS0	
000 11 10	5190	14.07	14.41	17.25	17.50	MCS0	
802.11ac40	5230	13.04	13.44	16.25	17.50	MCS0	
802.11ac80	5210	14.67	15.07	17.88	18.00	MCS0	
Lek shotek	5180	14.94	15.06	18.01	18.50	MCS0	
802.11ax20	5200	14.63	14.72	17.69	18.50	MCS0	
	5240	13.47	13.73	16.61	18.50	MCS0	
000 44 40	5190	14.15	14.40	17.29	17.50	MCS0	
802.11ax40	5230	13.19	13.41	16.31	17.50	MCS0	
802.11ax80	5210	15.79	14.96	18.41	18.50	MCS0	

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ANT 1:

TestMode	Channel	Average Power[dBm]	Tune-Up Limit(dBm)	Test Rate Data	
Aupu ak	5745	13.18	14.00	6M	
802.11a	5785	13.33	14.00	6M	
	5825	13.99	14.00	6M	
stek subotek	5745	13.09	14.50	MCS0	
802.11n20	5785	13.34	14.50	MCS0	
	5825	14.02	14.50	MCS0	
000 44-40	5755	13.66	14.50	MCS0	
802.11n40	5795	14.14	14.50	MCS0	
tek anbotek	5745	12.99	14.50	MCS0	
802.11ac20	5785	13.53	14.50	MCS0	
	5825	14.12	14.50	MCS0	
Anboren Ano	5755	13.71	14.50	MCS0	
802.11ac40	5795	14.07	14.50	MCS0	
802.11ac80	5775	14.49	14.50	MCS0	
ak hotek	5745	14.28	15.50	MCS0	
802.11ax20	5785	14.53	15.50	MCS0	
	5825	15.20	15.50	MCS0	
honoren an an	5755	14.06	14.50	MCS0	
802.11ax40	5795	14.45	14.50	MCS0	
802.11ax80	5775	15.49	15.50	MCS0	

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TestMode	Channel	Average Power[dBm]	Tune-Up Limit(dBm)	Test Rate Data	
Any tok onb	5745	13.64	14.00	6M	
802.11a	5785	13.95	14.00	6M	
	5825	13.96	14.00	6M	
otek Aupote	5745	13.67	14.00	MCS0	
802.11n20	5785	13.95	14.00	MCS0	
	5825	13.91	14.00	MCS0	
002 44 - 40	5755	14.26	15.00	MCS0	
802.11n40	5795	14.51	15.00	MCS0	
Auponos A	5745	13.62	14.50	MCS0	
802.11ac20	5785	13.88	14.50	MCS0	
	5825	14.04	14.50	MCS0	
802.11ac40	5755	14.22	14.50	MCS0	
	5795	14.44	14.50	MCS0	
802.11ac80	5775	14.75	15.00	MCS0	
sabotet As	5745	14.80	15.50	MCS0	
802.11ax20	5785	15.22	15.00	MCS0	
	5825	15.16	15.00	MCS0	
000 11 av 10	5755	14.38	14.50	MCS0	
802.11ax40	5795	14.50	14.50	MCS0	
802.11ax80	5775	16.03	16.50	MCS0	

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Test Mode	Frequency	Conducted Average Output Power(dBm)			Maximum Tune-	Test Rate
	(MHz)	Antenna 1	Antenna 2	Total	Up(dBm)	Data
802.11n20	5745	13.09	13.67	16.40	17.00	MCS
	5785	13.34	13.95	16.67	17.00	MCS
	5825	14.02	13.91	16.98	17.00	MCS
802.11n40	5755	13.66	14.26	16.98	17.50	MCS
	5795	14.14	14.51	17.34	17.50	MCS
802.11ac20	5745	12.99	13.62	16.33	17.50	MCS
	5785	13.53	13.88	16.72	17.50	MCS
	5825	14.12	14.04	17.09	17.50	MCS
000 44 40	5755	13.71	14.22	16.98	17.50	MCS
802.11ac40	5795	14.07	14.44	17.27	17.50	MCS

14.49

14.28

14.53

15.20

14.06

14.45

15.49

14.75

14.80

15.22

15.16

14.38

14.50

16.03

17.63

17.56

17.90

18.19

17.23

17.49

18.78

18.00

18.50

18.50

18.50

18.00

18.00

19.00

MCS0

MCS0

MCS0 MCS0

MCS0

MCS0

MCS0

Note:

802.11ac80

802.11ax20

802.11ax40

802.11ax80

1. Per KDB 447498 D02 v02r01, the test distance less than 5mm

5775

5745

5785

5825

5755

5795

5775

2. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.

3. Per KDB 248227 D01, In the 5 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. SAR is not required for the following 5 GHz **OFDM conditions:**

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

2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified

maximum output power and the adjusted SAR is \leq 1.2 W/kg.

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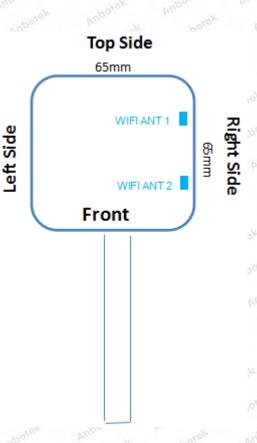
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11. Antenna Location



	Distan	ce of The A	ntenna to the	EUT surface and	edge	
Antennas	Front	Back	Top Side	Bottom Side	Left Side	Right Side
WiFi ANT1	<25mm	<25mm	<25mm	>25mm	>25mm	<25mm
WiFi ANT2	<25mm	<25mm	>25mm	>25mm	>25mm	<25mm

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12. SAR Test Results Summary

General Note:

- 1. Per KDB 447498 D01 v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
- Reported SAR(W/kg)= Measured SAR(W/kg)* Scaling Factor
 Per KDB 447498 D01 v06, for each exposure position, if the highest output channel reported SAR≤0.8W/kg, other channels SAR testing are not necessary

<WIFI 2.4GHz>

ANT1:

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	е	Tune- Up Limit (dBm)	Scalin g Factor	r Drift	Measure d SAR _{1g} (W/kg)	Reporte d SAR _{1g} (W/kg)
ootek	WIFI 2.4GHz	802.11 ax40	Left	0	6	2437	13.26	13.50	1.057	N/A	N/A	N/A
#1	WIFI 2.4GHz	802.11 ax40	Right	0	6	2437	13.26	13.50	1.057	0.07	0.523	0.553
Anb	WIFI 2.4GHz	802.11 ax40	Тор	0	6	2437	13.26	13.50	1.057	0.01	0.258	0.273
1	WIFI 2.4GHz	802.11 ax40	Bottom	0	6	2437	13.26	13.50	1.057	N/A	N/A	N/A
Mak	WIFI 2.4GHz	802.11 ax40	Front	0	6	2437	13.26	13.50	1.057	0.13	0.412	0.435
abotel	WIFI 2.4GHz	802.11 ax40	Back	0	6	2437	13.26	13.50	1.057	0.12	0.423	0.447

ANT2:

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq.	е	Tune- Up Limit (dBm)	Scalin g Factor	r Drift	Measure d SAR _{1g} (W/kg)	Reporte d SAR _{1g} (W/kg)
	WIFI 2.4GHz	802.11 n40	Left	0	9	2452	14.75	15.00	1.059	N/A	N/A	N/A
#2	WIFI 2.4GHz	802.11 n40	Right	0	9	2452	14.75	15.00	1.059	0.08	0.632	0.669
p.n	WIFI 2.4GHz	802.11 n40	Тор	0	9	2452	14.75	15.00	1.059	N/A	N/A	N/A
	WIFI 2.4GHz	802.11 n40	Bottom	0.00	9	2452	14.75	15.00	1.059	N/A	N/A	N/A
1/2	WIFI 2.4GHz	802.11 n40	Front	0	9	2452	14.75	15.00	1.059	0.11	0.521	0.552
det	WIFI 2.4GHz	802.11 n40	Back	0	9	2452	14.75	15.00	1.059	0.10	0.536	0.568

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Band 1

ANT1:

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Averag e Power (dBm)	Tune- Up Limit (dBm)	Scalin g Factor	r Drift	Measure d SAR _{1g} (W/kg)	Reporte d SAR _{1g} (W/kg)
Anant	WIFI 5.2GHz	802.11 ax80	Left	0	42	5210	15.79	16.00	1.050	N/A	N/A	N/A
#3	WIFI 5.2GHz	802.11 ax80	Right	0,00	42	5210	15.79	16.00	1.050	0.05	0.736	0.736
9×	WIFI 5.2GHz	802.11 ax80	Тор	0	42	5210	15.79	16.00	1.050	0.03	0.365	0.365
oter	WIFI 5.2GHz	802.11 ax80	Bottom	0	42	5210	15.79	16.00	1.050	N/A	N/A	N/A
2nbor	WIFI 5.2GHz	802.11 ax80	Front	0	42	5210	15.79	16.00	1.050	0.04	0.613	0.613
PUL	WIFI 5.2GHz	802.11 ax80	Back	0	42	5210	15.79	16.00	1.050	0.11	0.625	0.625

ANT2:

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)		Tune- Up Limit (dBm)	Scalin g Factor	r Drift	Measure d SAR _{1g} (W/kg)	Reporte d SAR _{1g} (W/kg)
P	WIFI 5.2GHz	802.11 ac80	Left	p.000th	42	5210	15.07	15.50	1.104	N/A	N/A	N/A
#4	WIFI 5.2GHz	802.11 ac80	Right	0	42	5210	15.07	15.50	1.104	0.05	0.683	0.754
Helk	WIFI 5.2GHz	802.11 ac80	Тор	0	42	5210	15.07	15.50	1.104	N/A	N/A	N/A
thore	WIFI 5.2GHz	802.11 ac80	Bottom	0.4	42	5210	15.07	15.50	1.104	N/A	N/A	N/A
Pup.	WIFI 5.2GHz	802.11 ac80	Front	Oote	42	5210	15.07	15.50	1.104	0.09	0.527	0.582
1	WIFI 5.2GHz	802.11 ac80	Back	0,50	42	5210	15.07	15.50	1.104	0.07	0.531	0.586

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Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)	Averag e Power (dBm)	Tune- Up Limit (dBm)	Scalin g Factor	r Drift	Measure d SAR _{1g} (W/kg)	Reporte d SAR _{1g} (W/kg)
Anbot	WIFI 5.8GHz	802.11 ax80	e ^{ve} Left po	0	155	5775	15.49	15.50	1.002	N/A	N/A	N/A
#5	WIFI 5.8GHz	802.11 ax80	Right	0	155	5775	15.49	15.50	1.002	0.04	0.705	0.707
N.	WIFI 5.8GHz	802.11 ax80	Тор	0	155	5775	15.49	15.50	1.002	N/A	0.342	0.343
Hate	WIFI 5.8GHz	802.11 ax80	Bottom	0	155	5775	15.49	15.50	1.002	N/A	N/A	N/A
abote	WIFI 5.8GHz	802.11 ax80	Front	0	155	5775	15.49	15.50	1.002	0.08	0.601	0.602
Brit	WIFI 5.8GHz	802.11 ax80	Back	0	155	5775	15.49	15.50	1.002	0.09	0.612	0.613

ANT2:

Plot No.	Band	Mode	Test Position	Gap (mm)	Ch.	Freq. (MHz)		Tune- Up Limit (dBm)	Scalin g Factor	r Drift	Measure d SAR _{1g} (W/kg)	Reporte d SAR _{1g} (W/kg)
Anbr	WIFI 5.8GHz	802.11 ax80	Left	0	155	5775	16.03	16.50	1.114	N/A	N/A	N/A
#6	WIFI 5.8GHz	802.11 ax80	Right	0	155	5775	16.03	16.50	1.114	0.09	0.709	0.790
-Has	WIFI 5.8GHz	802.11 ax80	Тор	0	155	5775	16.03	16.50	1.114	N/A	N/A	N/A
hotek	WIFI 5.8GHz	802.11 ax80	Bottom	0	155	5775	16.03	16.50	1.114	N/A	N/A	N/A
anbo	WIFI 5.8GHz	802.11 ax80	Front	0.0	155	5775	16.03	16.50	1.114	0.11	0.602	0.671
PI	WIFI 5.8GHz	802.11 ax80	Back	0	155	5775	16.03	16.50	1.114	0.13	0.615	0.685

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13. Simultaneous Transmission Analysis

Simultaneous TX SAR Considerations

- No. Applicable Simultaneous Transmission
- 1. WIFI 2.4G ANT1 +WIFI 2.4G ANT2
- 2. WIFI 5.2G ANT1 +WIFI 5.2G ANT2
- 3. WIFI 5.8G ANT1 +WIFI 5.8G ANT2

Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore simultaneous transmission analysis is required. Per FCC KDB 447498 D01v05r02, simultaneous transmission SAR test exclusion may be applied when the sum of the 1-g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is \leq 1.6 W/kg.

Test Position	WiFi ANT 1 SAR _{1-g} (W/Kg)	WiFi ANT 2 SAR _{1-g} (W/Kg)	MAX. ΣSAR _{1-g} (W/Kg)	SAR _{1-g} Limit (W/Kg)	Simut. Meas. Required
Left	N/A	N/A	N/A	1.6 M	N/A
Right	0.553	0.669	1.222	1.6	N/A
Тор	0.273	N/A	0.273	1.6	N/A
Bottom	N/A	N/A	N/A	1.6	N/A
Front	0.435	0.552	0.987	1.6	N/A
Back	0.447	0.568	1.015	1.6	N/A

WIFI 2.4G ANT1 +WIFI 2.4G ANT2:

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 WIFI 5.2G ANT1 +WIFI 5.2G ANT2:
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Test Position	WiFi ANT 1 SAR _{1-g} (W/Kg)	WiFi ANT 2 SAR _{1-g} (W/Kg)	MAX. ΣSAR _{1-g} (W/Kg)	SAR _{1-g} Limit (W/Kg)	Simut. Meas. Required
Left	N/A	N/A	N/A	1.6	N/A
Right	0.736	0.754	1.490	1.6	N/A
Тор	0.365	N/A	0.365	1.6	N/A
Bottom	N/A	N/A	N/A	1.6	N/A
Front	0.613	0.582	1.195	1.6	N/A
Back	0.625	0.586	1.211	1.6	N/A

WIFI 5.8G ANT1 +WIFI 5.8G ANT2:

Test Position	WiFi ANT 1 SAR _{1-g} (W/Kg)	WiFi ANT 2 SAR _{1-g} (W/Kg)	MAX. ΣSAR _{1-g} (W/Kg)	SAR _{1-g} Limit (W/Kg)	Simut. Meas. Required
Left	N/A	N/A	N/A	1.6	N/A
Right	0.707	0.790	1.497	1.6	N/A
Тор	0.343	N/A	0.343	1.6	N/A
Bottom	N/A	N/A	N/A M	1.6	N/A
Front	0.602	0.671	1.273	1.6	N/A
Back	0.613	0.685	1.287	1.6	N/A
Back	0.613	0.685	1.287	1.6	N/A

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14. Measurement Uncertainty

NO	Source	Uncert. ai (%)	Prob. Dist.	Div.	ci (1g)	Aupotel	Stand.U ncert. ui (1g)	ncert. ui (10g)	Veff
Anb	Repeat	0. 4	Anborek	1 part	oten1	p1.bs	0.4	0.4	9
Br.	loutek Antoler p	nurotek	Instru	iment	anbo,	en b	Hardon	popoter	P PUD.
2	Probe calibration	Anbone 7	N	2	propo	1	3.5	3.5	∞
3	Axial isotropy	4.7	R	√3	0.7	0.7	1.9	1.9	8
4	Hemispherical isotropy	9.4	Rotek	√3	0.7	0.7	3.9	3.9	∞
5	Boundary effect	1.0	Runbol	√3	Anbo Ant	jose y	0.6	0.6	ole ^k ∞
6	Linearity	4.7	R	√3	tet 1	Albot	2.7	2.7	∞e st
7	Detection limits	1.0	R	√3	nbotek 1	4 1 AN	0.6	0.6	on bot ∞
8	Readout electronics	0.3	Nator	1	Anboi 1	Nerrol 1	0.3	0.3	00
9	Response time	0.8	oter R	√3	1 P	nbotek	0.5	0.5	nborek
10	Integration time	2.6	R R	√3	ibote ¹	Anbor 1 Ant	1.5	1.5	Anbo
11	Ambient noise	3.0	Ribore	√3	Antiotel	, sev 1	1.7	1.7	co de
12	Ambient reflections	3.0	Helf R	√3	11	hotek	1.7	And And And	botek
13	Probe positioner mech. restrictions	0.4	R	√3	pote ^k 1	Anbo Anb	0.2	0.2	Anbone
14	Probe positioning with respect to phantom shell	2.9	R and	√3	Anbotek Anbo	ret post	1.7	Anbotek 1.7nbot	onen ∞

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Product Safety

Anbotek

Report	No.: 18220WC3026	51901	FCC	ID: 2A	WJK-	WMT	-H26	Page 4	14 of 9
15	Max.SAR evaluation	1.0	R	√3	1	Anboti	0.6	0.6	Anbore ∞

314	Anbotek Anboten	Ano	Test samp	ole rel	ated	abotek	Anbotek	Anbo	notely.
16	Device positioning	3.8	otek P	Alloot	1	Anbotel	3.8	3.8	Prop 010
17	Device holder	5.1	Anbotek N	120	unb hek	1	5.1	5.1	5.
18	Drift of output power	5.0	RANDO	√3	Anbo 1	o ⁿ	2.9	2.9	otek «
otek	Anboton Anno botek	Anb	Phantom a	and se	et-up	anbote ^k	Aniao	tok bu	abotel
19	Phantom uncertainty	4.0	R	√3	otek 1.ek	Anbo 1	2.3	2.3	Anbi
20	Liquid conductivity (target)	5.0	R	√3	0.64	0.43	1.8	1.2	×
21	Liquid conductivity (meas)	2.5	ek otek N	potek antiotel	0.64	0.43	1.6	1.2	nbotek
22	Liquid Permittivity (target)	5.0	And Stell	√3	0.6	0.49	1.7	1.5	Anbo
23	Liquid Permittivity (meas)	2.5	N	otel.	0.6	0.49	1.5	1.2	Nelt «
her botek Anbo	Combined standard	Anbo Ak An Jotek	RSS	U	$v_c = \sqrt{\sum_{i=1}^{n}}$	$C_i^2 U_i^2$	11.4%	11.3%	23
unc	Expanded ertainty(P=95%)	Anbotek	Anbote	J = κι °	J ,k=	2	22.8%	22.6%	10/K

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Appendix A. EUT Photos and Test Setup Photos



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Appendix B. Plots of SAR System Check

2450MHz Body System Check

Date:12/18/2023

Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz; σ = 1.88 S/m; ϵ_r = 52.14; ρ = 1000 kg/m³ Phantom section: Flat Section

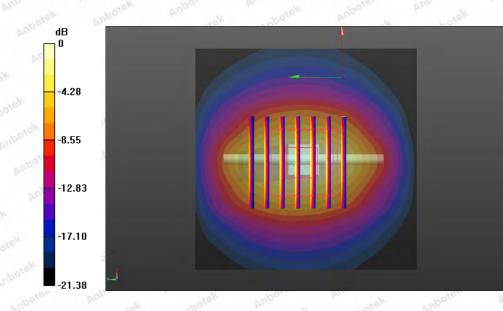
DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 20.6 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.751 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 27.1 W/kg SAR(1 g) = 12.69 W/kg; SAR(10 g) = 5.96W/kg Maximum value of SAR (measured) = 20.8 W/kg



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Report No.: 18220WC30261901 FCC ID: 2AWJK-WMT-H26 Page 47 of 95 5200MHz Body System Check Date:12/19/2023 DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1160 Date:12/19/2023 Communication System: UID 0, CW; Frequency: 5200 MHz; Duty Cycle: 1:1 11

Medium parameters used: f = 5200 MHz; σ = 5.2 S/m; ϵ_r = 48.23; ρ = 1000 kg/m³ Phantom section: Flat Section

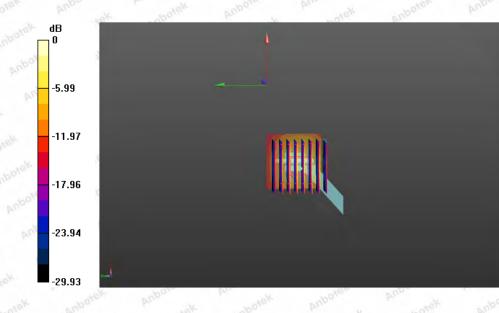
DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 20.9 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 59.857 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 34.58 W/kg SAR(1 g) = 7.63 W/kg; SAR(10 g) = 2.21 W/kg Maximum value of SAR (measured) = 20.8 W/kg



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Report No.: 18220WC30261901FCC ID: 2AWJK-WMT-H26Page 48 of 955800MHz Body System CheckDate:12/20/2023DUT: Dipole 5800 MHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1160Communication System: UID 0, CW; Frequency: 5800 MHz;Duty Cycle: 1:1Medium parameters used: f = 5800 MHz; σ = 5.74 S/m; ε_r = 48.54; ρ = 1000 kg/m³Phantom section: Flat Section

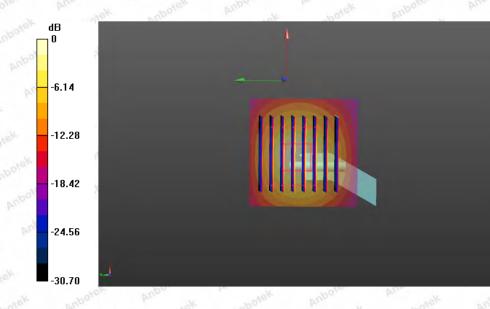
DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(4.52, 4.52, 4.52); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

Configuration/Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Maximum value of SAR (interpolated) = 18.8 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 56.773 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 31.5 W/kg SAR(1 g) = 7.95 W/kg; SAR(10 g) = 2.54 W/kg Maximum value of SAR (measured) = 19.8 W/kg



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Appendix C. Plots of SAR Test Data

#1

Date: 12/18/2023

2.4G WIFI_802.11ax40_CH6 BODY RIGHT

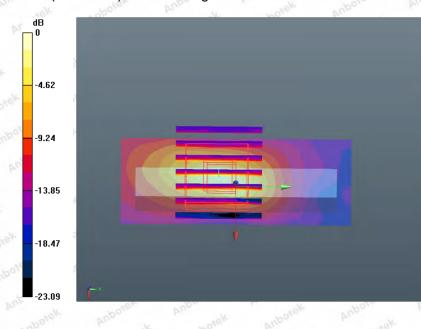
Communication System: UID 0, wifi (fcc) (0); Frequency: 2437 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 2437 MHz; σ = 1.88 S/m; ϵ_r = 52.14; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: May 06, 2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY RIGHT /Area Scan (31x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.661 W/kg

BODY RIGHT /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.264 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 1.682 W/kg SAR(1 g) = 0.553 W/kg; SAR(10 g) = 0.267 W/kg Maximum value of SAR (measured) = 1.563 W/kg



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2.4G WIFI_802.11n40_CH9 BODY RIGHT

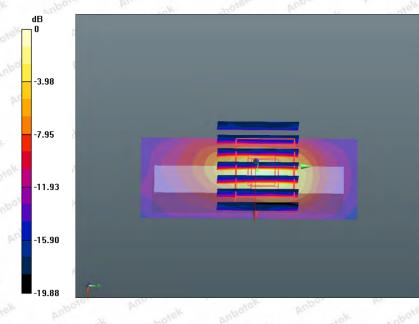
Communication System: UID 0, wifi (fcc) (0); Frequency: 2452 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 2452 MHz; σ = 1.88 S/m; ϵ_r = 52.14; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(7.53, 7.53, 7.53); Calibrated: May 06, 2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023;
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY RIGHT /Area Scan (31x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.602 W/kg

BODY RIGHT /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 7.269 V/m; Power Drift = 0.08 dB Peak SAR (extrapolated) = 1.646 W/kg SAR(1 g) = 0.632 W/kg; SAR(10 g) = 0.305 W/kg Maximum value of SAR (measured) = 1.643 W/kg



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WIFI 5.2G_802.11ax80_CH42 BODY RIGHT

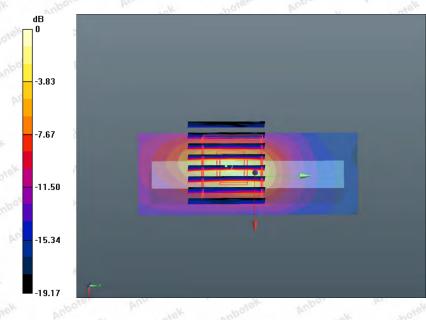
Communication System: UID 0, wifi (fcc) (0); Frequency: 5210 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 5210 MHz; σ = 5.20 S/m; ϵ_r = 48.23; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: May 06, 2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023;
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY RIGHT /Area Scan (31x81x1): Measurement grid: dx=1.000mm, dy=1.000mm Maximum value of SAR (interpolated) = 1.925 W/kg

BODY RIGHT /Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=4mm Reference Value = 7.953 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.891 W/kg SAR(1 g) = 0.736 W/kg; SAR(10 g) = 0.363 W/kg Maximum value of SAR (measured) = 1.992 W/kg



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WIFI 5.2G_802.11ac80_CH42 BODY RIGHT

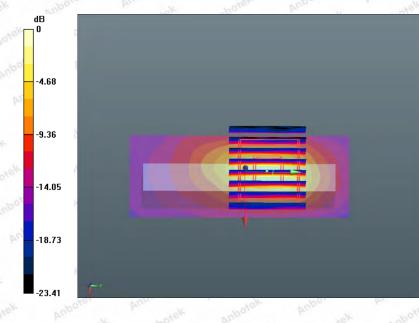
Communication System: UID 0, wifi (fcc) (0); Frequency: 5210 MHz;Duty Cycle: 1:1 Medium parameters used (interpolated): f = 5210 MHz; σ = 5.20 S/m; ϵ_r = 48.23; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(4.93, 4.93, 4.93); Calibrated: May 06, 2023;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY RIGHT /Area Scan (31x81x1): Measurement grid: dx=1.000mm, dy=1.000mm Maximum value of SAR (interpolated) = 1.562 W/kg

BODY RIGHT /Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=4mm Reference Value = 6.941 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 1.643 W/kg SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.321 W/kg Maximum value of SAR (measured) = 1.354 W/kg



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 #5
 Date: 12/20/2023

WIFI 5.8G_802.11ax80_CH155 BODY RIGHT

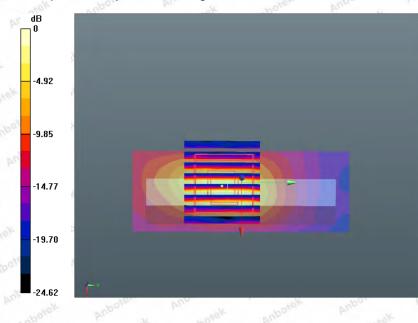
Communication System: UID 0, wifi (fcc) (0); Frequency: 5775 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 5775 MHz; σ = 5.74 S/m; ϵ r = 48.54; ρ = 1000 kg/m3 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(4.52, 4.52, 4.52); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY RIGHT /Area Scan (31x81x1): Measurement grid: dx=1.000mm, dy=1.000mm Maximum value of SAR (measured) = 1.636W/kg

BODY RIGHT /Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=4mm Reference Value = 6.977 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 1.748 W/kg SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.345 W/kg Maximum value of SAR (measured) = 1.679 W/kg



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 #6
 Date: 12/20/2023

WIFI 5.8G_802.11ax80_CH155 BODY RIGHT

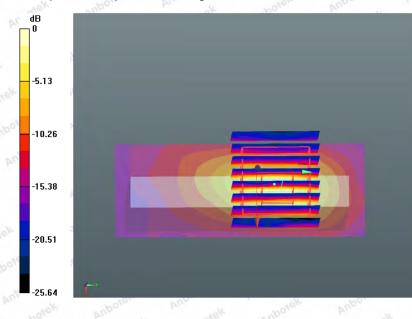
Communication System: UID 0, wifi (fcc) (0); Frequency: 5775 MHz; Duty Cycle: 1:1 Medium parameters used (interpolated): f = 5775 MHz; σ = 5.74 S/m; ϵ r = 48.54; ρ = 1000 kg/m3 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7396; ConvF(4.52, 4.52, 4.52); Calibrated: May 06, 2023;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn387; Calibrated: Sep. 06, 2023
- Phantom: SAM; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.10 (7164)

BODY RIGHT /Area Scan (31x81x1): Measurement grid: dx=1.000mm, dy=1.000mm Maximum value of SAR (measured) = 1.471 W/kg

BODY RIGHT /Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=4mm Reference Value = 5.672 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 1.313 W/kg SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.381 W/kg Maximum value of SAR (measured) = 1.884 W/kg



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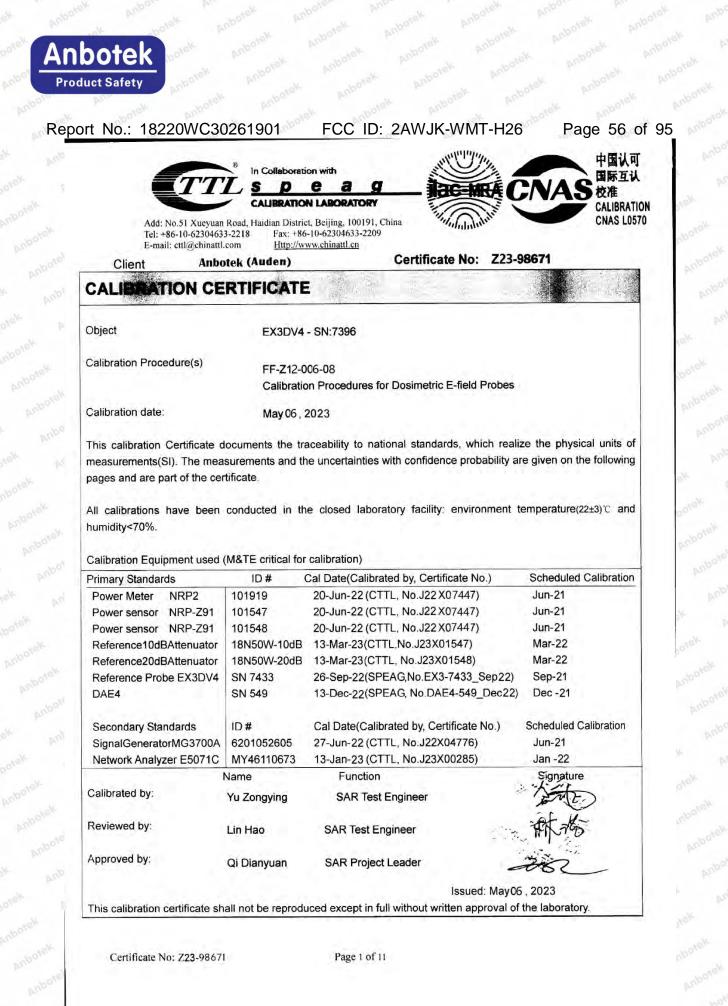
Appendix D. DASY System Calibration Certificate

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 <u>Http://www.chinattl.cn</u>

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A,B,C,D	modulation dependent linearization parameters
Polarization Φ	Φ rotation around probe axis
Polarization θ	θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i
	$\theta=0$ is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300MHz to 3GHz)", February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx, y, z: Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide). NORMx, y, z are only intermediate values, i.e., the uncertainties of NORMx, y, z does not effect the E² -field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NÓRMx,y,z* frequency_response (see Frequency Response Chart). This
 linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the
 frequency response is included in the stated uncertainty of ConvF.
- DCPx, y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax, y, z; Bx, y, z; Cx, y, z; VRx, y, z:A,B,C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle:* The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

Certificate No: Z21-98671

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Code:AB-RF-05-b





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Probe EX3DV4

SN: 7396

Calibrated: May 06, 2023

Calibrated for DASY/EASY Systems (Note: non-compatible with DASY2 system!)

Certificate No: Z23-98671

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DASY/EASY – Parameters of Probe: EX3DV4 – SN: 7396

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm(µV/(V/m) ²) ^A	0.54	0.53	0.50	±10.0%
DCP(mV) ^B	97.8	104.5	102.5	

Modulation Calibration Parameters

UID	Communication		Α	в	С	D	VR	Unc ^E
	System Name		dB	dBõV		dB	mV	(k=2)
0	cw	X	0.0	0.0	1.0	0.00	199.9	±2.4%
		Υ	0.0	0.0	1.0		203.3	
		Z	0.0	0.0	1.0		195.0	

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

^A The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 5 and Page 6). ^B Numerical linearization parameter: uncertainty not required.

^E Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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DASY/EASY – Parameters of Probe: EX3DV4 – SN: 7396

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) [⊦]	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	9.82	9.82	9.82	0.30	0.85	\pm 12.1%
835	41.5	0.90	9.71	9.71	9.71	0.15	1.36	±12.1%
900	41.5	0.97	9.87	9.87	9.87	0.16	1.37	±12.1%
1750	40.1	1.37	8.61	8.61	8.61	0.25	1.04	±12.1%
1900	40.0	1.40	8.13	8.13	8.13	0.24	1.01	±12.1%
2100	39.8	1.49	8.14	8.14	8.14	0.24	1.04	±12.1%
2300	39.5	1.67	7.85	7.85	7.85	0.40	0.75	±12.1%
2450	39.2	1.80	7.57	7.57	7.57	0.50	0.75	±12.1%
2600	39.0	1.96	7.38	7.38	7.38	0.64	0.68	±12.1%
5250	35.9	4.71	5.33	5.33	5.33	0.45	1.30	±13.3%
5600	35.5	5.07	4.89	4.89	4.89	0.45	1.35	±13.3%
5750	35.4	5.22	4.92	4.92	4.92	0.45	1.45	±13.3%

^C Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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DASY/EASY – Parameters of Probe: EX3DV4 – SN: 7396

Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) [⊦]	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	55.5	0.96	10.09	10.09	10.09	0.30	0.90	±12.1%
835	55.2	0.97	9.88	9.88	9.88	0.19	1.32	±12.1%
900	55.0	1.05	9.82	9.82	9.82	0.23	1.15	±12.1%
1750	53.4	1.49	8.24	8.24	8.24	0.24	1.06	±12.1%
1900	53.3	1.52	7.97	7.97	7.97	0.19	1.24	±12.1%
2100	53.2	1.62	8.18	8.18	8.18	0.19	1.39	±12.1%
2300	52.9	1.81	7.88	7.88	7.88	0.55	0.80	±12.1%
2450	52.7	1.95	7.53	7.53	7.53	0.46	0.89	±12.1%
2600	52.5	2.16	7.38	7.38	7.38	0.52	0.80	±12.1%
5250	48.9	5.36	4.93	4.93	4.93	0.45	1.80	±13.3%
5600	48.5	5.77	4.19	4.19	4.19	0.48	1.90	±13.3%
5750	48.3	5.94	4.52	4.52	4.52	0.48	1.95	±13.3%

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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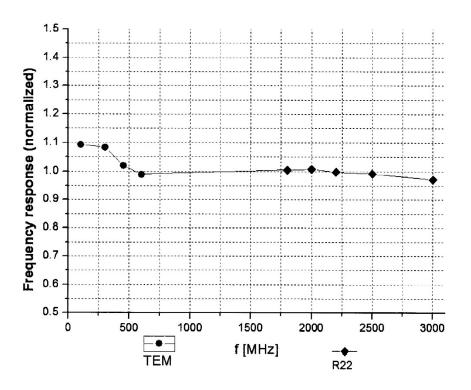


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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ±7.4% (k=2)

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