

SAR TEST REPORT

Application No.: SZCR2504001314AT
Applicant: WaveGo Tech LLC
Address of Applicant: 16192 Coastal Highway, Lewes, Sussex, DE 19958, USA
Manufacturer: WaveGo Tech LLC
Address of Manufacturer: 16192 Coastal Highway, Lewes, Sussex, DE 19958, USA
EUT Description: Remote Controller
Model No.: FCGCDDRC
FCC ID: 2BPFE-RC001
Standards: FCC 47CFR §2.1093
Date of Receipt: 2025-05-12
Date of Test: 2025-05-14 to 2025-05-18
Date of Issue: 2025-05-19

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-05-19		Original

Authorized for issue by:				
		Donjon Huang		
		Donjon Huang/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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TEST SUMMARY

Test Summary		
Frequency Band	Max Reported SAR1g(W/kg)	Max Reported SAR10g(W/kg)
	Body	Extremity
SDR 2.4GHz	<0.10	0.16
SDR 5GHz	<0.10	0.65
SAR Limited(W/kg)	1.6	4.0



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1 General Information

1.1 General Description of EUT

Product Phase:	production unit
Device Type:	portable device
Exposure Category:	uncontrolled environment / general population
SN:	AV6DN4F0000055, AV6DN4F0000057
Antenna Type:	Internal Antennas
Device Operating Configurations:	
Modulation Mode:	2.4G SDR/5G SDR: OFDM
Frequency Bands:	2.4G SDR
	1.4MHz mode A: 2403.5MHz-2467.5MHz(33channel)
	1.4MHz mode B: 2405.12MHz-2469.12MHz(33channel)
	1.4MHz mode C: 2404.69MHz-2464.69MHz(21channel)
	1.4MHz mode D: 2406.31MHz-2466.31MHz(21channel)
	3MHz mode A: 2405.5MHz-2465.5MHz(21channel)
	3MHz mode B: 2408.2MHz-2468.2MHz(21channel)
	3MHz mode C: 2407.88MHz-2457.88MHz(11channel)
	3MHz mode D: 2411.12MHz-2461.12MHz(11channel)
	5MHz mode A: 2404.5MHz-2469.5MHz(14channel)
	5MHz mode B: 2405.26MHz-2462.26MHz(58channel)
	5MHz mode C: 2411.74MHz-2468.74MHz(58channel)
	10MHz mode A: 2407.5MHz-2467.5MHz(61channel)
	10MHz mode B: 2408.75MHz-2453.75MHz(46channel)
	10MHz mode C: 2422.25MHz-2467.25MHz(46channel)
	20MHz: 2412.5MHz-2462.5MHz(51channel)
	40MHz: 2422.5MHz-2452.5MHz(31channel)
	60MHz: 2432.5MHz-2442.5MHz(11channel)
	5.1G SDR
	10MHz: 5157MHz-5245MHz(89channel)
	20MHz: 5161MHz-5240MHz(80channel)
	40MHz: 5170MHz-5230MHz(61channel)
	5.8G SDR



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	1.4MHz mode A: 5728.5MHz-5844.5MHz(59channel) 1.4MHz mode B: 5730.12MHz-5846.12MHz(59channel) 1.4MHz mode C: 5729.69MHz-5840.69MHz(38channel) 1.4MHz mode D: 5731.31MHz-5842.31MHz(38channel) 3MHz mode A: 5727.5MHz-5844.5MHz(40channel) 3MHz mode B: 5730.2MHz-5847.2MHz(40channel) 3MHz mode C: 5730.88MHz-5840.88MHz(23channel) 3MHz mode D: 5734.12MHz-5844.12MHz(23channel) 5MHz mode A: 5732.5MHz-5842.5MHz(23channel) 5MHz mode B: 5733.26MHz-5835.26MHz(103channel) 5MHz mode C: 5739.74MHz-5841.74MHz(103channel) 10MHz mode A: 5730.5MHz-5844.5MHz(115channel) 10MHz mode B: 5731.75MHz-5829.75MHz(99channel) 10MHz mode C: 5745.25MHz-5843.25MHz(99channel) 20MHz: 5735.5MHz-5839.5MHz(105channel) 40MHz: 5745.5MHz-5829.5MHz(85channel) 60MHz: 5755.5MHz-5819.5MHz(65channel) 80MHz: 5765.5MHz-5809.5MHz(45channel)
RF Cable:	<input checked="" type="checkbox"/> Provided by applicant <input type="checkbox"/> Provided by the laboratory
Battery Information:	Model: ICR18650
	Normal Voltage: 2.75V
	Rated capacity: 2550mAh
	Manufacturer: Jiangsu Tenpower Lithium Co., Ltd.
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



1.1.1 DUT Antenna Locations

The DUT Antenna Locations can be referred to Appendix D



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
KDB 865664 D01 v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Compliance Reporting and Documentation Considerations



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1.3 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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

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



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1.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

1.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	



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3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

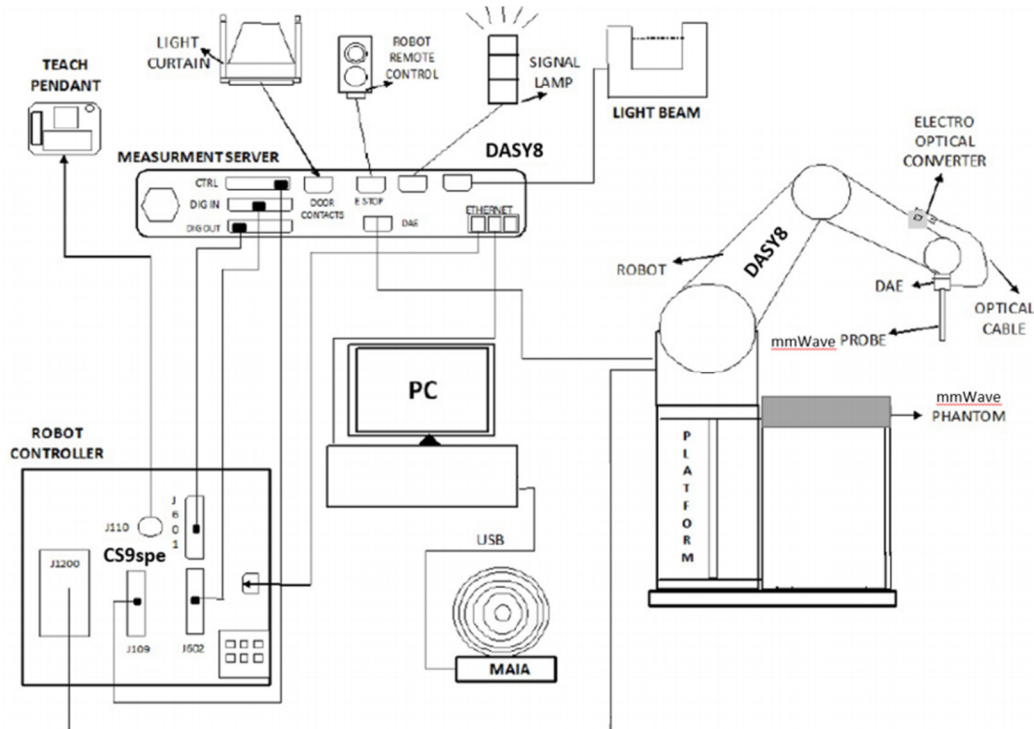
The DASY system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

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

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

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration

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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows system.
- DASY software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.




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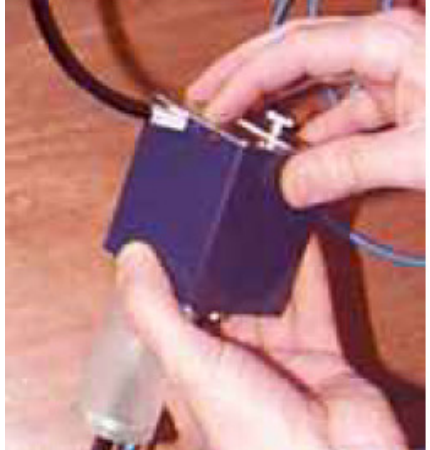
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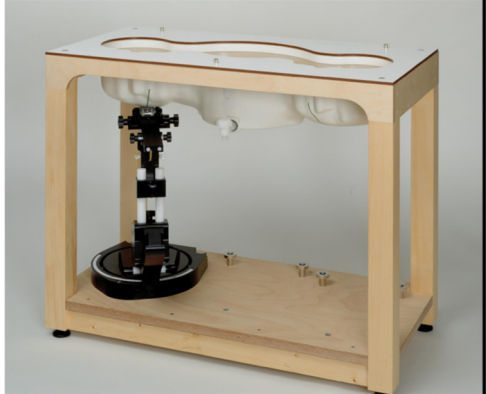
3.2 Isotropic E-field Probe EX3DV4

	<p>Symmetrical design with triangular core</p> <p>Built-in shielding against static charges</p> <p>PEEK enclosure material (resistant to organic solvents, e.g., DGBE)</p>
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY52 SAR and higher, EASY4/MRI

3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5μV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

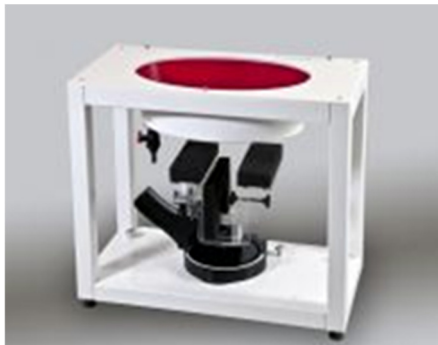
3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	pprox.. 25 liters	
Wooden Support	SPEAG standard phantom table	

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm(bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	pprox.. 30 liters	
Wooden Support	SPEAG standard phantom table	

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

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4 but has reinforced top structure.

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- 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 centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta=0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The “reference” and “drift” measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm. Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 32mm*32mm*30mm ($f \leq 2\text{GHz}$), 30mm*30mm*30mm (f for 2-3GHz) and 24mm*24mm*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points ($f \leq 2\text{GHz}$), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



		$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
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		$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}		$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
		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 \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}		$\leq 2 \text{ GHz: } \leq 8 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz: } \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$	$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 4 \text{ mm}$ $4 - 5 \text{ GHz: } \leq 3 \text{ mm}$ $5 - 6 \text{ GHz: } \leq 2 \text{ mm}$
	graded grid $\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 3 \text{ mm}$ $4 - 5 \text{ GHz: } \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \leq 2 \text{ mm}$
	$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z	$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz: } \geq 28 \text{ mm}$ $4 - 5 \text{ GHz: } \geq 25 \text{ mm}$ $5 - 6 \text{ GHz: } \geq 22 \text{ mm}$

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. $\pm 5 \%$

3.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "DAE". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

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

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression point	Dcpi	
Device parameters:	- Frequency	f
- Crest factor	cf	
Media parameters:	- Conductivity	ε
- Density	ρ	

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

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot cf / dcp_i$$

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:



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$$E_i = (V_i / \text{Norm}_i \cdot \text{ConvF})^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2) / f$$

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

Norm_i = sensor sensitivity of channel i ($i = x, y, z$)

[mV/(V/m)²] for E-field Probes

ConvF = sensitivity enhancement in solution

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

f = carrier frequency [GHz]

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

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

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

$$E_{\text{tot}} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

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

$$\text{SAR} = (E_{\text{tot}}^2 \cdot \sigma) / (\epsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

E_{tot} = total field strength in V/m

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

ϵ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{\text{pwe}} = E_{\text{tot}}^2 / 3770 \text{ or } P_{\text{pwe}} = H_{\text{tot}}^2 \cdot 37.7$$

with P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) 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 ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

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



5 Description of Test Position

5.1 The Body Test Position

5.1.1 Hand-held usage of the device

Devices that are designed or intended for use on extremities (i.e., hands, wrists, feet and ankles), or mainly operated in extremity-only exposure conditions, may require extremity SAR evaluation. When extremity SAR testing is required, a flat phantom is typically used. However, when the device also operates in close proximity to the user's body, SAR compliance for the body is also required. Based on user usage scenarios, we conducted body SAR tests on the bottom side and limbs condition tests on all six sides.

6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients (% by weight)	Frequency (MHz)				
	450	700-1000	1700-2000	2300-2500	2500-2700
Water	38.56	40.30	55.24	55.00	54.92
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23
Sucrose	56.32	57.90	0	0	0
HEC	0.98	0.24	0	0	0
Bactericide	0.19	0.18	0	0	0
Tween	0	0	44.45	44.80	44.85
Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MQ+ resistivity Tween: Polyoxyethylene (20) sorbitan monolaurate Sucrose: 98+% Pure Sucrose HEC: Hydroxyethyl Cellulose					
HSL5GHz is composed of the following ingredients: (Manufactured by SPEAG) Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%					

Table 1 : Recipe of Tissue Simulate Liquid

6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 2. For the SAR measurement given in this report.

The temperature variation of the Tissue Simulate Liquids was $22 \pm 2^\circ\text{C}$.

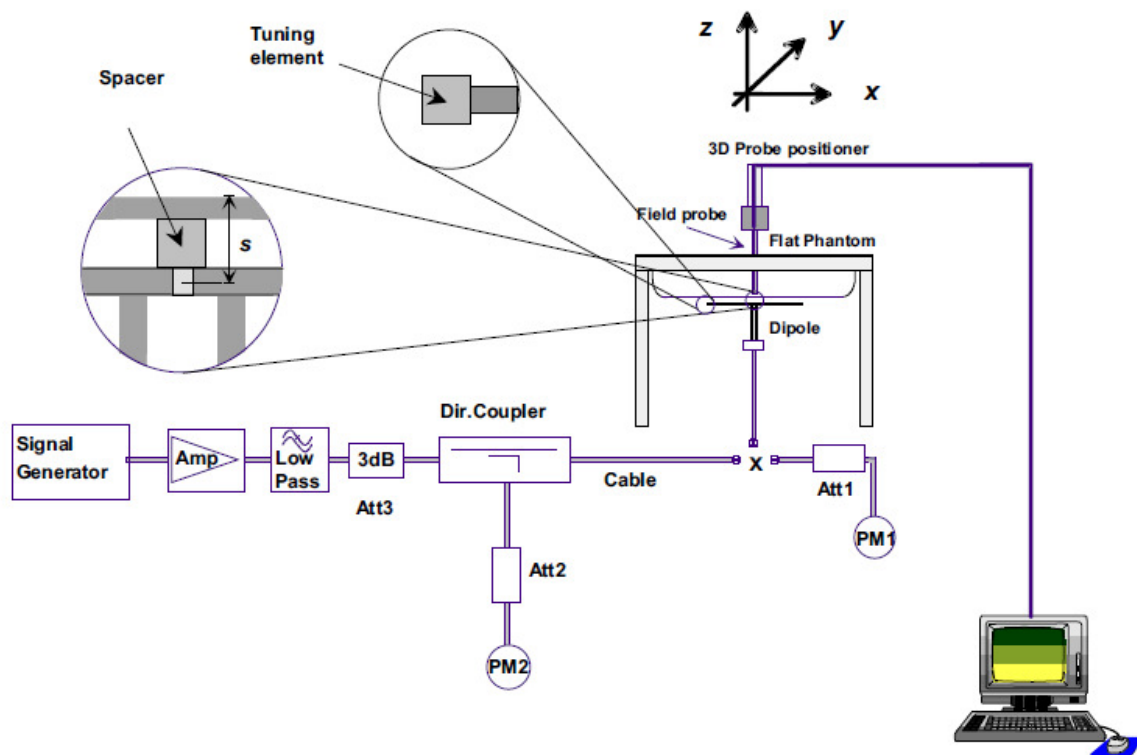
Tissue Type	Measured Frequency (MHz)	Measured Tissue		Target Tissue ($\pm 5\%$)		Deviation (Within $\pm 5\%$)		Liquid Temp. ($^\circ\text{C}$)	Test Date
		ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$	ϵ_r	$\sigma(\text{S/m})$		
2450 Head	2450	40.300	1.820	39.20	1.80	2.81%	1.11%	22.6	2025/5/14
5250 Head	5250	36.600	4.760	35.90	4.71	1.95%	1.06%	22.6	2025/5/14
5750 Head	5750	35.600	5.340	35.40	5.22	0.56%	2.30%	22.6	2025/5/14

Table 2 : Measurement result of Tissue electric parameters



6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range $22\pm 2^\circ\text{C}$, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above $15\pm 0.5\text{ cm}$ in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12.The microwave circuit arrangement used for SAR system Check

6.2.1 Justification for Extended SAR Dipole Calibrations

1) Instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 20% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

Validation Kit	Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D2450V2_Head	14.20	6.56	56.80	26.24	52.20	24.30	8.81%	7.98%	22.6	2025/5/14
Validation Kit	Measured SAR 100mW	Measured SAR 100mW	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	Target SAR (normalized to 1W)	Target SAR (normalized to 1W)	Deviation (Within ±10%)		Liquid Temp. (°C)	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10-g(W/kg)		
D5GHzV2_5.25G_Head	7.55	2.34	75.50	23.40	77.30	22.10	-2.33%	5.88%	22.6	2025/5/14
D5GHzV2_5.75G_Head	7.80	2.23	78.00	22.30	77.10	21.30	1.17%	4.69%	22.6	2025/5/14

Table 3 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



7 Test Configuration

7.1 2.4GHz SDR Test Configuration

For the SAR tests, a communication link is set up with the test mode software for 2.4GHz, in the case of 2403.5~2469.5 MHz, during the test at each test frequency channel. The EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate. operating modes are tested independently according to the service requirements in each frequency band.

7.2 5.1GHz SDR Test Configuration

For the SAR tests, a communication link is set up with the test mode software for 5.1GHz, in the case of 5157-5245MHz, during the test at each test frequency channel. The EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate. operating modes are tested independently according to the service requirements in each frequency band.

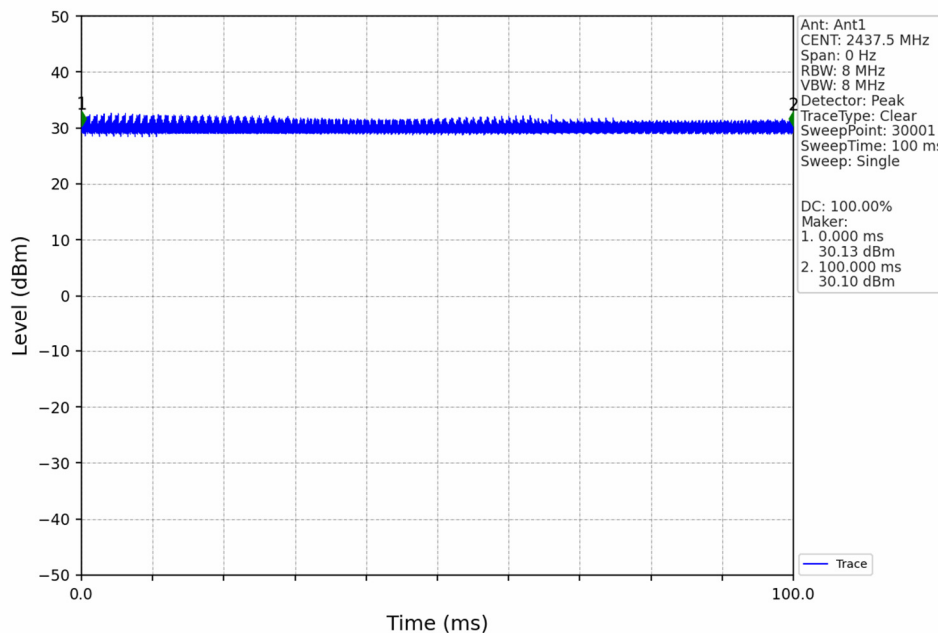
7.3 5.8GHz SDR Test Configuration

For the SAR tests, a communication link is set up with the test mode software for 5.8GHz, in the case of 5727.5~5847.2MHz, during the test at each test frequency channel. The EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate. operating modes are tested independently according to the service requirements in each frequency band.

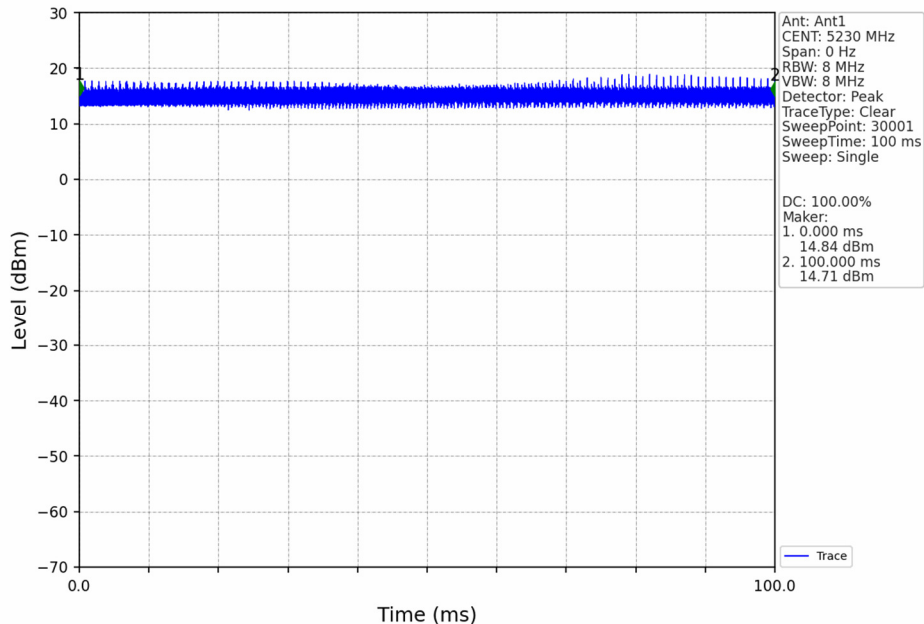


7.4 Duty cycle

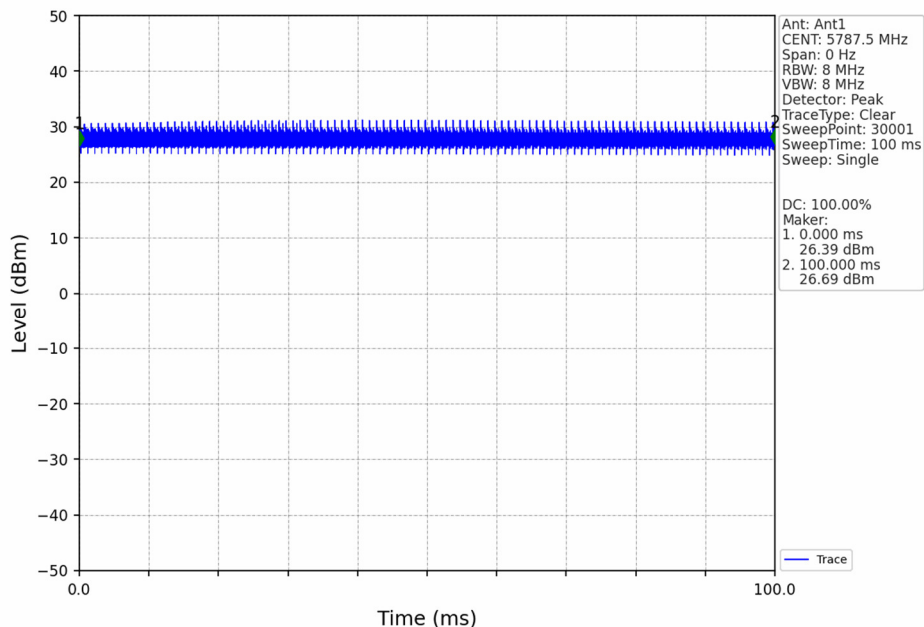
1) 2.4G SDR Duty cycle=100.00%



2) 5.1G SDR Duty cycle=100.00%



3) 5.8G SDR Duty cycle=100.00%



8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power of 2.4GHz SDR

ANT0			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
1.4M	2403.5	21.11	22.50
	2437.5	21.51	22.50
	2469.12	21.68	22.50
3M	2405.5	23.99	25.50
	2438.5	24.53	25.50
	2468.2	24.54	25.50
5M	2404.5	23.89	25.00
	2439.5	24.31	25.00
	2469.5	24.09	25.00
10M	2407.5	19.24	20.50
	2437.5	25.64	26.50
	2467.5	17.27	18.00
20M	2412.5	17.54	18.50
	2437.5	24.35	25.50
	2462.5	13.97	15.00
40M	2422.5	11.26	12.00
	2437.5	18.67	19.50
	2452.5	10.57	11.50
60M	2432.5	11.09	12.00
	2437.5	11.17	12.00
	2442.5	11.46	12.00



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ANT1			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
1.4M	2403.5	21.82	22.50
	2437.5	21.19	22.50
	2469.12	20.96	22.50
3M	2405.5	24.63	25.50
	2438.5	24.43	25.50
	2468.2	24.47	25.50
5M	2404.5	24.68	25.00
	2439.5	24.21	25.00
	2469.5	23.62	25.00
10M	2407.5	20.26	20.50
	2437.5	25.56	26.50
	2467.5	17.28	18.00
20M	2412.5	17.93	18.50
	2437.5	24.26	25.50
	2462.5	13.47	15.00
40M	2422.5	11.19	12.00
	2437.5	18.57	19.50
	2452.5	10.03	11.50
60M	2432.5	11.05	12.00
	2437.5	11.14	12.00
	2442.5	11.41	12.00



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MIMO			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
1.4M	2403.5	24.49	25.50
	2437.5	24.36	25.50
	2469.12	24.35	25.50
3M	2405.5	27.33	28.50
	2438.5	27.49	28.50
	2468.2	27.52	28.50
5M	2404.5	27.31	28.00
	2439.5	27.27	28.00
	2469.5	26.87	28.00
10M	2407.5	22.79	23.50
	2437.5	28.65	29.50
	2467.5	20.29	21.00
20M	2412.5	20.75	21.50
	2437.5	27.32	28.50
	2462.5	16.74	18.00
40M	2422.5	14.24	15.00
	2437.5	21.63	22.50
	2452.5	13.32	14.50
60M	2432.5	14.08	15.00
	2437.5	14.17	15.00
	2442.5	14.45	15.00



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8.1.2 Conducted Power of 5.1GHz SDR

ANT0			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
10M	1.61	2.50	0.00
	14.03	15.00	-4.00
	15.19	16.00	-4.00
20M	3.23	4.00	0.00
	16.21	17.00	6.00
	16.96	18.00	6.00
40M	7.84	9.00	-2.00
	17.01	18.00	1.00
	16.76	18.00	10.00

ANT1			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
10M	5157	1.60	2.50
	5200	13.49	15.00
	5245	11.66	13.00
20M	5161	2.71	4.00
	5200	15.60	17.00
	5240	15.24	16.00
40M	5170	6.08	7.00
	5200	16.38	18.00
	5230	17.11	18.00

MIMO			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
10M	5157	4.62	5.50
	5200	16.78	18.00
	5245	16.78	17.50
20M	5161	5.99	7.00
	5200	18.93	20.00
	5240	19.19	20.00
40M	5170	10.06	11.00
	5200	19.72	21.00
	5230	19.95	21.00



8.1.3 Conducted Power of 5.8GHz SDR

ANT0			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
1.4M	5728.5	23.94	25.00
	5786.5	24.22	25.00
	5846.12	23.70	25.00
3M	5727.5	24.19	25.00
	5787.5	23.68	25.00
	5847.2	23.44	25.00
5M	5732.5	24.57	25.00
	5787.5	23.73	25.00
	5842.5	23.61	25.00
10M	5730.5	24.34	25.00
	5787.5	24.07	25.00
	5844.5	23.66	25.00
20M	5735.5	24.54	25.00
	5787.5	24.78	25.00
	5839.5	23.65	25.00
40M	5745.5	19.74	20.50
	5787.5	21.16	22.00
	5829.5	18.27	19.00
60M	5755.5	19.81	20.50
	5787.5	20.54	21.50
	5819.5	20.10	21.50
80M	5765.5	20.34	21.50
	5787.5	20.01	21.00
	5809.5	20.01	21.00



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ANT1			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
1.4M	5728.5	24.05	25.00
	5786.5	24.32	25.00
	5846.12	24.06	25.00
3M	5727.5	24.33	25.00
	5787.5	23.81	25.00
	5847.2	23.88	25.00
5M	5732.5	24.75	25.00
	5787.5	23.86	25.00
	5842.5	24.48	25.00
10M	5730.5	24.58	25.00
	5787.5	24.23	25.00
	5844.5	24.48	25.00
20M	5735.5	24.54	25.00
	5787.5	24.66	25.00
	5839.5	24.27	25.00
40M	5745.5	19.94	20.50
	5787.5	21.32	22.00
	5829.5	19.33	20.00
60M	5755.5	20.00	20.50
	5787.5	20.10	21.50
	5819.5	20.43	21.50
80M	5765.5	20.42	21.50
	5787.5	20.06	21.00
	5809.5	20.43	21.00



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MIMO			
Mode	Frequency(MHz)	Average Power (dBm)	Tune up
1.4M	5728.5	27.01	28.00
	5786.5	27.28	28.00
	5846.12	26.89	28.00
3M	5727.5	27.27	28.00
	5787.5	26.76	28.00
	5847.2	26.68	28.00
5M	5732.5	27.67	28.00
	5787.5	26.81	28.00
	5842.5	27.08	28.00
10M	5730.5	27.47	28.00
	5787.5	27.16	28.00
	5844.5	27.10	28.00
20M	5735.5	27.55	28.00
	5787.5	27.61	28.00
	5839.5	26.98	28.00
40M	5745.5	22.85	23.50
	5787.5	24.25	25.00
	5829.5	21.84	22.50
60M	5755.5	22.92	23.50
	5787.5	23.34	24.50
	5819.5	23.28	24.50
80M	5765.5	23.39	24.50
	5787.5	23.05	24.00
	5809.5	23.24	24.00



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8.2 Measurement of SAR Data

8.2.1 SAR Result of 2.4GHz SDR

Wi-Fi 2.4G SAR Test Record (MIMO)												
Test position	Test mode	Test Freq.	Test Duty Cycle	Declare Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
SDR 2.4G Extremity Test Data (0mm)												
Front side	10M	2437.5	100.00%	16.00%	0.075	0.038	-0.18	28.65	29.50	1.216	0.007	22.6
Back side	10M	2437.5	100.00%	16.00%	0.049	0.027	-0.19	28.65	29.50	1.216	0.005	22.6
Left side	10M	2437.5	100.00%	16.00%	0.016	0.005	-0.19	28.65	29.50	1.216	0.001	22.6
Right side	10M	2437.5	100.00%	16.00%	0.033	0.009	0.08	28.65	29.50	1.216	0.002	22.6
Top side	10M	2437.5	100.00%	16.00%	2.210	0.844	-0.04	28.65	29.50	1.216	0.164	22.6
Bottom side	10M	2437.5	100.00%	16.00%	0.035	0.013	-0.01	28.65	29.50	1.216	0.003	22.6
Test position	Test mode	Test Freq.	Test Duty Cycle	Declare Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
SDR 2.4G Body Test Data (0mm)												
Bottom side	10M	2437.5	100.00%	16.00%	0.035	0.013	-0.01	28.65	29.50	1.216	0.007	22.6

Note: The device max duty cycle is 16%.



8.2.2 SAR Result of 5GHz SDR

Wi-Fi 5G SAR Test Record (MIMO)												
Test position	Test mode	Test Freq.	Test Duty Cycle	Declare Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(°C)
SDR 5.1G Extremity Test Data (0mm)												
Front side	40M	5230	100.00%	16.00%	0.103	0.043	0.03	19.95	21.00	1.274	0.009	22.6
Back side	40M	5230	100.00%	16.00%	0.347	0.126	0.14	19.95	21.00	1.274	0.026	22.6
Left side	40M	5230	100.00%	16.00%	0.186	0.079	-0.11	19.95	21.00	1.274	0.016	22.6
Right side	40M	5230	100.00%	16.00%	0.060	0.018	-0.10	19.95	21.00	1.274	0.004	22.6
Top side	40M	5230	100.00%	16.00%	15.300	3.190	-0.03	19.95	21.00	1.274	0.650	22.6
Bottom side	40M	5230	100.00%	16.00%	0.068	0.016	-0.03	19.95	21.00	1.274	0.003	22.6
SDR 5.8G Extremity Test Data (0mm)												
Front side	20M	5787.5	100.00%	16.00%	0.097	0.024	-0.05	27.61	28.00	1.094	0.004	22.6
Back side	20M	5787.5	100.00%	16.00%	0.080	0.016	-0.03	27.61	28.00	1.094	0.003	22.6
Left side	20M	5787.5	100.00%	16.00%	0.080	0.019	-0.13	27.61	28.00	1.094	0.003	22.6
Right side	20M	5787.5	100.00%	16.00%	0.098	0.018	0.06	27.61	28.00	1.094	0.003	22.6
Top side	20M	5787.5	100.00%	16.00%	0.483	0.117	0.04	27.61	28.00	1.094	0.020	22.6
Bottom side	20M	5787.5	100.00%	16.00%	0.059	0.012	-0.02	27.61	28.00	1.094	0.002	22.6
Test position	Test mode	Test Freq.	Test Duty Cycle	Declare Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(°C)
SDR 5.1G Body Test Data (0mm)												
Bottom side	40M	5230	100.00%	16.00%	0.068	0.016	-0.03	19.95	21.00	1.274	0.014	22.6
SDR 5.8G Body Test Data (0mm)												
Bottom side	20M	5787.5	100.00%	16.00%	0.059	0.012	-0.02	27.61	28.00	1.094	0.010	22.6

Note: The device max duty cycle is 16%.

9 Equipment list

Test Platform		SPEAG DASY Professional				
Description		SAR Test System				
Software Reference		cDASY8 V16.4.0.5005				
Hardware Reference						
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
<input checked="" type="checkbox"/>	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-027	NCR	NCR
<input checked="" type="checkbox"/>	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2024/08/08	2025/08/07
<input checked="" type="checkbox"/>	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
<input checked="" type="checkbox"/>	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31
<input checked="" type="checkbox"/>	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25
<input checked="" type="checkbox"/>	RF Bi-Directional Coupler	Agilent	86205-60001	SZ-WSR-A-004	NCR	NCR
<input checked="" type="checkbox"/>	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/01/07	2026/01/06
<input checked="" type="checkbox"/>	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
<input checked="" type="checkbox"/>	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
<input checked="" type="checkbox"/>	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06
<input checked="" type="checkbox"/>	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06
<input checked="" type="checkbox"/>	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07
<input checked="" type="checkbox"/>	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
<input checked="" type="checkbox"/>	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
<input checked="" type="checkbox"/>	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29
<input checked="" type="checkbox"/>	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27
<input checked="" type="checkbox"/>	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

Note: All the equipment are within the valid period when the tests are performed.



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

--- End of report ---