



## **TEST REPORT**

Applicant Name: Fanvil Technology Co., LTD.

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Report Number: 2401V86481E-SAA FCC ID: 2APPZ-H603W

Test Standard (s)

FCC 47 CFR part 2.1093

### **Sample Description**

Product Type: Portable Wi-Fi Phone

Model No.: H603W Multiple Model(s) No.: N/A

Trade Mark: Fanvil

Serial Number: 20N5-1

Date Received: 2024/07/17

Date of Test: 2024/08/26~2024/09/04

Issue Date: 2024/09/14

Test Result: Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

**Prepared and Checked By:** 

Approved By:

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Note: The information marked is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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#### Bay Area Compliance Laboratories Corp. (Shenzhen)

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Attestation of Test Results					
Frequency Band	Max. SAR Level(s) Reported(W/kg)	Limit(W/Kg)			
WLAN 2.4G ANT1	0.27 W/kg 1g Head SAR 0.11 W/kg 1g Body SAR				
WLAN 5.2G ANT1	1.16 W/kg 1g Head SAR 0.51 W/kg 1g Body SAR				
WLAN 5.8G ANT1	<b>1.19</b> W/kg 1g Head SAR 0.68 W/kg 1g Body SAR				
WLAN 2.4G ANT2	0.09 W/kg 1g Head SAR 0.15 W/kg 1g Body SAR	1.6			
WLAN 5.2G ANT2	0.09 W/kg 1g Head SAR <b>1.20</b> W/kg 1g Body SAR				
WLAN 5.8G ANT2	0.17 W/kg 1g Head SAR 1.02 W/kg 1g Body SAR				
Simultaneous(tx)	1.31 W/kg 1g Head SAR 1.48 W/kg 1g Body SAR				
	FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devices				
	RF Exposure Procedures: TCB WorkshopApril2019				
Applicable Standards	IEEE1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques				
	KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 648474 D04 Handset SAR v01r03 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 248227 D01 802.11 Wi-Fi SAR v02r02				

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**Note:** This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in FCC 47 CFR part 2.1093 and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.

The results and statements contained in this report pertain only to the device(s) evaluated.

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### **DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision	
0	2401V86481E-SAA	Original Report	2024/09/14	

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### **EUT DESCRIPTION**

This report has been prepared on behalf of Fanvil Technology Co., LTD. and their product Portable Wi-Fi Phone, Model: H603W, FCC ID: 2APPZ-H603W or the EUT (Equipment under Test) as referred to in the rest of this report.

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### **Technical Specification**

Product Type:	Portable
<b>Exposure Category:</b>	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	None
Operation modes:	WLAN
Frequency Band:	WLAN 2.4G: 2412 - 2462 MHz (TX/RX) WLAN 5.2G: 5150 - 5250 MHz(TX/RX) WLAN 5.8G: 5725 - 5850 MHz(TX/RX)
Dimensions (L*W*H):	214mm*59mm*17mm
Rated Input Voltage:	DC 3.8V from Rechargeable Battery
Normal Operation:	Head and Body

<sup>\*</sup>All measurement and test data in this report was gathered from production sample serial number: 20N5-1(Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2024-07-17.

### REFERENCE, STANDARDS, AND GUILDELINES

#### FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

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This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

#### **SAR Limits**

#### FCC Limit(1g Tissue)

	SAR (W/kg)					
EXPOSURE LIMITS	ITS (General Population / (Occupationa Uncontrolled Exposure Environment) (Occupationa Controlled Exposure Environment)					
Spatial Average (averaged over the whole body)	0.08	0.4				
Spatial Peak (averaged over any 1 g of tissue)	1.6	8.0				
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0				

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

Occupational/Controlled Environments are defined as locations where there is exposure that maybe incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg for 1g SAR applied to the EUT.

### **FACILITIES**

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect data is located at 5F(B-West) ,6F,7F,the 3rd Phase of Wan Li Industrial Building D,Shihua Rd, FuTian Free Trade Zone, Shenzhen, China

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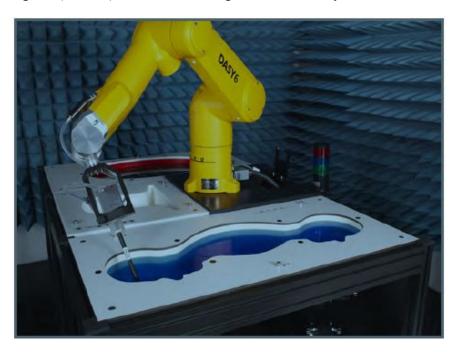
The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 715558, the FCC Designation No.: CN5045.

Each test item follows test standards and with no deviation.

## **DESCRIPTION OF TEST SYSTEM**

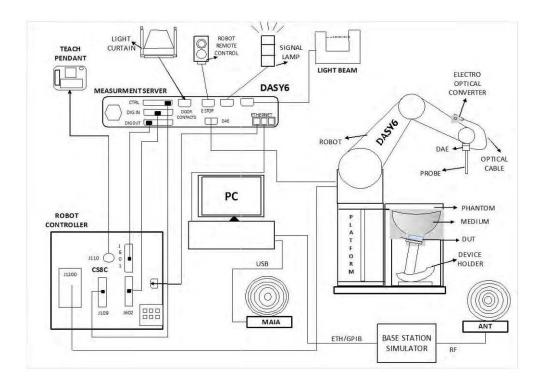
These measurements were performed with the automated near-field scanning system DASY6 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:

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### **DASY6 System Description**

The DASY6 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot (Staubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

#### **DASY6 Measurement Server**

The DASY6 measurement server is based on a PC/104 CPU board with a 400 MHz Intel ULV Celeron, 128 MB chip-disk and 128 MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16-bit AD converter system for optical detection and digital I/O interface are contained on the DASY6 I/O board, which is directly connected to the PC/104 bus of the CPU board.



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The measurement server performs all real-time data evaluations of field measurements and surface detection, controls robot movements, and handles safety operations. The PC operating system cannot interfere with these time-critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program- controlled robot movements. Furthermore, the measurement server is equipped with an expansion port, which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Connection of devices from any other supplier could seriously damage the measurement server.

#### **Data Acquisition Electronics**

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

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

The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

#### **EX3DV4 E-Field Probes**

Frequency	4 MHz to >10 GHz Linearity: ± 0.2 dB (30 MHz to 10 GHz)
Directivity	$\pm$ 0.1 dB in TSL (rotation around probe axis) $\pm$ 0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 $\mu$ W/g to > 100 mW/g Linearity: $\pm$ 0.2 dB (noise: typically< 1 $\mu$ 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	DASY3, DASY4, DASY52 SAR and higher, EASY6, EASY4/MRI

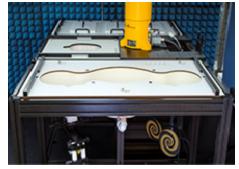
#### **SAM Twin Phantom**

The SAM Twin Phantom (shown in front of DASY6) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm. The phantom has three measurement areas: 1) Left Head, 2) Right Head, and 3) Flat Section. For larger devices, the use of the ELI-Phantom (shown behind DASY6) is required. For devices such as glasses with a wireless link, the Face Down Phantom is the most suitable (between the SAM Twin and ELI phantoms).

When the phantom is mounted inside allocated slot of the DASY6 platform, phantom reference points can be taught directly in the DASY5 V5.2software. When the DASY6 platform is used to mount the

Phantom, some of the phantom teaching points cannot be reached by the robot in DASY5 V5.2. A special tool called P1a-P2aX-Former is provided to transform two of the three points, P1 and P2, to reachable locations. To use these new teaching points, a revised phantom configuration file is required.

In addition to our standard broadband liquids, the phantom can be used with the following tissue simulating liquids:



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Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.

DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).

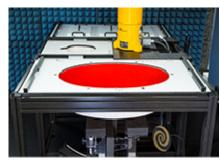
Do not use other organic solvents without previously testing the solvent resistivity of the phantom. Approximately 25 liters of liquid is required to fill the SAM Twin phantom.

#### **ELI Phantom**

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI is fully compatible with the latest draft of the standard IEEE1528 and the use of all known tissue simulating liquids. ELI has been optimized for performance and can be integrated into a SPEAG standard phantom table. A cover is provided to prevent evaporation of water and changes in liquid parameters. 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 can be used with the following tissue simulating liquids:

Sugar-water-based liquids can be left permanently in the phantom.
 Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.



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- DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the solvent resistivity of the phantom.

Approximately 25 liters of liquid is required to \_fill the ELI phantom.

#### **Robots**

The DASY6 system uses the high-precision industrial robots TX60L, TX90XL, and RX160L from Staubli SA (France). The TX robot family - the successor of the well-known RX robot family - continues to offer the features important for DASY6 applications:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is provided

#### Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7382 Calibrated: 2023/09/27

Calibration Frequency	Frequency Range(MHz)		Conversion Factor		
Point(MHz)	From	From To		Y	Z
750 Head	650	850	10.65	10.65	10.65
900 Head	850	1000	10.19	10.19	10.19
1750 Head	1650	1850	8.60	8.60	8.60
1900 Head	1850	2000	8.30	8.30	8.30
2300 Head	2200	2400	8.16	8.16	8.16
2450 Head	2400	2550	7.89	7.89	7.89
2600 Head	2550	2700	7.65	7.65	7.65
3300 Head	3200	3400	7.39	7.39	7.39
3500 Head	3400	3600	7.24	7.24	7.24
3700 Head	3600	3800	7.10	7.10	7.10
3900 Head	3800	4000	6.98	6.98	6.98
5250 Head	5140	5360	5.62	5.62	5.62
5500 Head	5390	5610	5.10	5.10	5.10
5750 Head	5640	5860	5.08	5.08	5.08

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#### **SAR Scan Procedures**

#### **Step 1: 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. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

#### Step 2: Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

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

	≤ 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \text{ mm} \pm 0.5 \text{ mm}$	
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°	
	$\leq$ 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: $\Delta x_{\text{Area}},\Delta y_{\text{Area}}$	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.		

#### **Step 3: Zoom Scan (Cube Scan Averaging)**

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 5mm, with the side length of the 10g cube is 21.5mm.

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

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

Note:  $\delta$  is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

#### **Step 4: Power Drift Measurement**

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

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

<sup>\*</sup> When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 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.

### **Tissue Dielectric Parameters for Head and Body Phantoms**

The head tissue dielectric parameters recommended by the IEC 62209-1:2016

#### Recommended Tissue Dielectric Parameters for Head liquid

Table A.3 - Dielectric properties of the head tissue-equivalent liquid

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Frequency	Relative permittivity	Conductivity (σ)	
MHz	$arepsilon_{_{\Gamma}}$	S/m	
300	45,3	0,87	
450	43,5	0,87	
750	41,9	0,89	
835	41,5	0,90	
900	41,5	0,97	
1 450	40,5	1,20	
1 500	40,4	1,23	
1 640	40,2	1,31	
1 750	40,1	1,37	
1 800	40,0	1,40	
1 900	40,0	1,40	
2 000	40,0	1,40	
2 100	39,8	1,49	
2 300	39,5	1,67	
2 450	39,2	1,80	
2 600	39,0	1,96	
3 000	38,5	2,40	
3 500	37,9	2,91	
4 000	37,4	3,43	
4 500	36,8	3,94	
5 000	36,2	4,45	
5 200	36,0	4,66	
5 400	35,8	4,86	
5 600	35,5	5,07	
5 800	35,3	5,27	
6 000	35,1	5,48	

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown in italics). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

## **EQUIPMENT LIST AND CALIBRATION**

## **Equipment's List & Calibration Information**

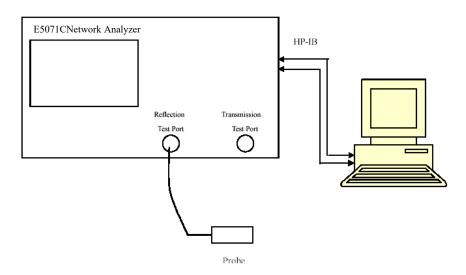
Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.2	N/A	NCR	NCR
DASY6 Measurement Server	DASY6 6.0.31	N/A	NCR	NCR
Data Acquisition Electronics	DAE4	1325	2023/09/27	2024/09/26
E-Field Probe	EX3DV4	7382	2023/09/27	2024/09/26
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
SAM Twin Phantom	SAM-Twin V8.0	1962	NCR	NCR
Dipole, 2450MHz	D2450V2	1103	2023/03/27	2026/03/26
Dipole,5GHz	D5GHzV2	1374	2023/03/27	2026/03/26
Simulated Tissue Liquid Head	HBBL600-10000V6	2200808-2	Each Time	/
Network Analyzer	E5071C	SER MY46519680	2024/05/21	2025/05/20
Dielectric Assessment Kit	DAK-3.5	1248	NCR	NCR
MXG Analog Signal Generator	N5181A	MY48180408	2024/01/16	2025/01/15
USB wideband power sensor	U2021XA	MY52350001	2024/05/21	2025/05/20
RF Power Amplifier	5205FE	1014	NCR	NCR
Directional Coupler	855673	3307	NCR	NCR
20dB Attenuator	2	BH9879	NCR	NCR
Amplifier	ZVE-8G+	558401902	NCR	NCR
Thermometer	DTM3000	N/A	2024/01/16	2025/01/15
Temperature & Humidity Meter	10316377	N/A	2024/01/17	2025/01/16
Spectrum Analyzer	FSV40	101473	2024/01/16	2025/01/15

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NCR: No Calibration Required.

### SAR MEASUREMENT SYSTEM VERIFICATION

### **Liquid Verification**



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Liquid Verification Setup Block Diagram

#### **Liquid Verification Results**

Frequency Liquid (MHz) Type		Liquid Parameter		Target Value		Delta (%)		Tolerance
		ε <sub>r</sub>	O' (S/m)	ε <sub>r</sub>	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
2437	Simulated Tissue Liquid Head	38.660	1.824	39.22	1.79	-1.43	1.84	±5
2450	Simulated Tissue Liquid Head	38.644	1.839	39.20	1.80	-1.42	2.17	±5

<sup>\*</sup>Liquid Verification above was performed on 2024/08/26.

Frequency Liquid		Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)			O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
5180	Simulated Tissue Liquid Head	35.237	4.646	36.02	4.64	-2.17	0.13	±5
5200	Simulated Tissue Liquid Head	35.234	4.655	36.00	4.66	-2.13	-0.11	±5
5240	Simulated Tissue Liquid Head	35.227	4.672	35.96	4.70	-2.04	-0.60	±5
5250	Simulated Tissue Liquid Head	35.225	4.677	35.95	4.71	-2.02	-0.70	±5

<sup>\*</sup>Liquid Verification above was performed on 2024/08/27.

Frequency Liquid		Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Туре	£ <sub>r</sub>	Q	C	Q	Ac	ΔΟ	(%)
			(S/m)	ε <sub>r</sub>	(S/m)	$\Delta \epsilon_{ m r}$	(S/m)	
5755	Simulated Tissue Liquid Head	36.100	5.174	35.35	5.23	2.12	-1.07	±5
5795	Simulated Tissue Liquid Head	36.061	5.178	35.31	5.27	2.13	-1.73	±5
5800	Simulated Tissue Liquid Head	36.056	5.179	35.30	5.27	2.14	-1.73	±5

<sup>\*</sup>Liquid Verification above was performed on 2024/09/04.

### **System Accuracy Verification**

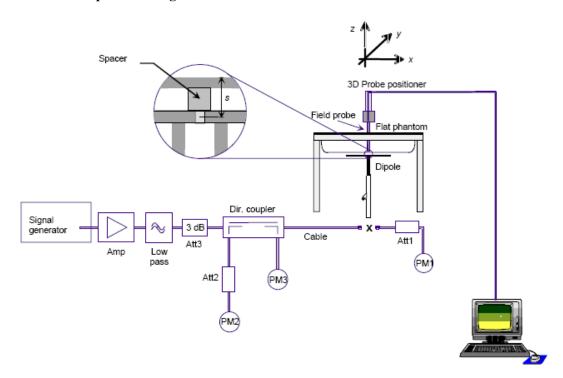
Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of  $\pm 10\%$ . The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

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The spacing distances in the System Verification Setup Block Diagram is given by the following:

- a)  $s = 15 \text{ mm} \pm 0.2 \text{ mm for } 300 \text{ MHz} \le f \le 1000 \text{ MHz};$
- b)  $s = 10 \text{ mm} \pm 0.2 \text{ mm}$  for  $1~000 \text{ MHz} < f \le 3~000 \text{ MHz}$ ;
- c)  $s = 10 \text{ mm} \pm 0.2 \text{ mm}$  for  $3000 \text{ MHz} < f \le 6000 \text{ MHz}$ .

#### **System Verification Setup Block Diagram**



#### **System Accuracy Check Results**

Date	Frequency Band (MHz)	Liquid Type	Input Power (mW)	S	sured AR //kg)	Normalized to 1W (W/kg)	Target Value (W/Kg)	Delta (%)	Tolerance (%)
2024/08/26	2450	Head	100	1g	5.38	53.8	51.7	4.062	±10
2024/08/27	5250	Head	100	1g	7.88	78.8	80.1	-1.623	±10
2024/09/04	5800	Head	100	1g	7.67	76.7	81.4	-5.774	±10

#### Note:

All the SAR values are normalized to 1Watt forward power.

#### SAR SYSTEM VALIDATION DATA

#### System Performance 2450 MHz Head (Date 2024/08/26)

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 1103

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz;  $\sigma = 1.839$  S/m;  $\varepsilon_r = 38.644$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY5 Configuration:

• Probe: EX3DV4 - SN7382; ConvF(7.89, 7.89, 7.89) @ 2450 MHz;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1325; Calibrated: 9/27/2023

Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA; Serial: 1962

• Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 2450MHz Pin=100mW/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 8.56 W/kg

Configuration/Head 2450MHz Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

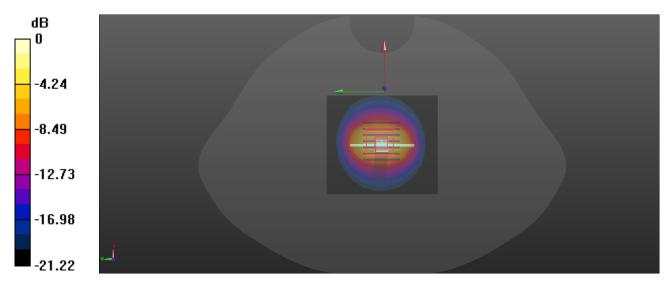
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Reference Value = 59.50 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.38 W/kg; SAR(10 g) = 2.54 W/kg

Maximum value of SAR (measured) = 8.85 W/kg



0 dB = 8.85 W/kg = 9.47 dBW/kg

#### System Performance 5250 MHz Head (Date 2024/08/27)

#### DUT: Dipole D5GHz; Type: D5GHzV2; Serial: 1374

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5250 MHz;  $\sigma = 4.677$  S/m;  $\epsilon_r = 35.225$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY5 Configuration:

- Probe: EX3DV4 SN7382; ConvF(5.62, 5.62, 5.62) @ 5250 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1325; Calibrated: 9/27/2023
- Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA; Serial: 1962
- Measurement SW: DASY52, Version 52.10 (2);

#### Configuration/Head 5250MHz Pin=100mW/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 17.8 W/kg

# Configuration/Head 5250MHz Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

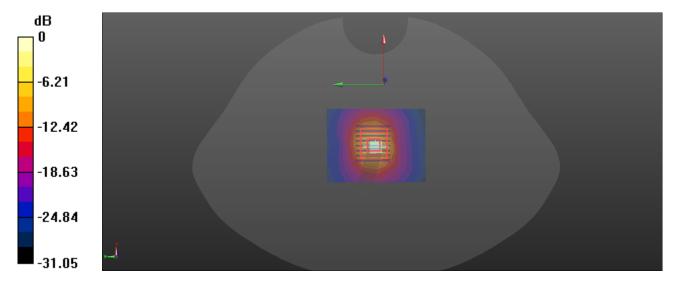
Report No.: 2401V86481E-SAA

Reference Value = 44.17 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 26.9 W/kg

#### SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 17.8 W/kg



0 dB = 17.8 W/kg = 12.50 dBW/kg

#### System Performance 5800 MHz Head (Date 2024/09/04)

#### DUT: Dipole D5GHz; Type: D5GHzV2; Serial: 1374

Communication System: UID 0, CW (0); Frequency: 5800 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5800 MHz;  $\sigma = 5.179$  S/m;  $\epsilon_r = 36.056$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY5 Configuration:

Probe: EX3DV4 - SN7382; ConvF(5.08, 5.08, 5.08) @ 5800 MHz;

• Sensor-Surface: 1.4mm (Mechanical Surface Detection)

• Electronics: DAE4 Sn1325; Calibrated: 9/27/2023

Phantom: SAM-Twin V8.0 P1aP2a; Type: QD 000 P41 AA; Serial: 1962

• Measurement SW: DASY52, Version 52.10 (2);

Configuration/Head 5800MHz Pin=100mW/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 18.6 W/kg

waxiiiuiii value of SAK (measured) – 18.0 w/kg

Configuration/Head 5800MHz Pin=100mW/Zoom Scan (8x8x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

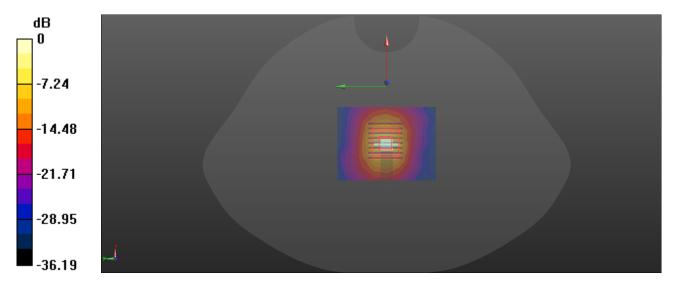
Report No.: 2401V86481E-SAA

Reference Value = 41.53 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 29.0 W/kg

SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.25 W/kg

Maximum value of SAR (measured) = 17.8 W/kg



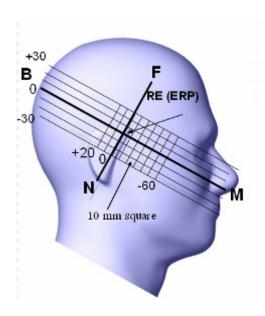
0 dB = 17.8 W/kg = 12.50 dBW/kg

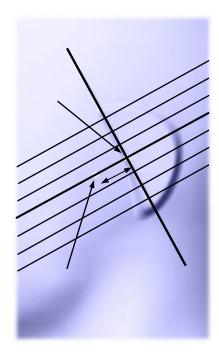
#### **EUT TEST STRATEGY AND METHODOLOGY**

#### Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point". The "test device reference point" should be located at the same level as the center of the earpiece region. The "vertical centerline" should bisect the front surface of the handset at its top and bottom edges. A "ear reference point" is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the "phantom reference plane" defined by the three lines joining the center of each "ear reference point" (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane". This is called the "initial ear position". While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:





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#### **Cheek/Touch Position**

The device is brought toward the mouth of the head phantom by pivoting against the "ear reference point" or along the "N-F" line for the SCC-34/SC-2 head phantom.

This test position is established:

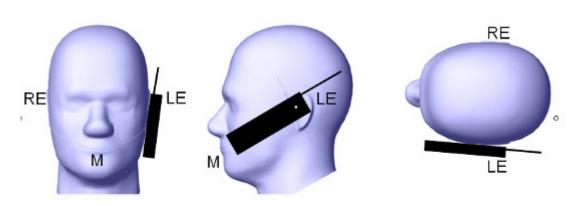
When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

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(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

#### **Cheek / Touch Position**



#### **Ear/Tilt Position**

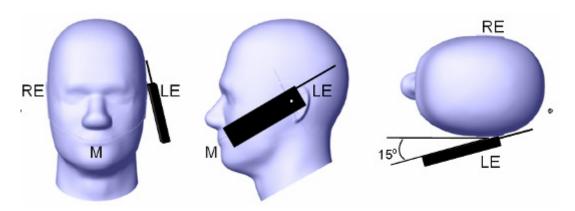
With the handset aligned in the "Cheek/Touch Position":

- 1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.
- 2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the "test device reference point" until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point isby 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the "Cheek/Touch" and "Ear/Tilt" positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

#### Ear /Tilt 15° Position

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#### Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

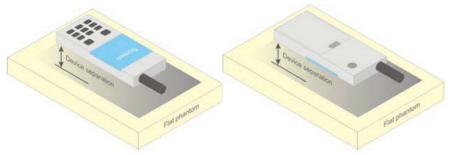


Figure 5 - Test positions for body-worn devices

#### **Test Distance for SAR Evaluation**

In this case the EUT (Equipment Under Test) is set 5mm away from the phantom, the test distance is 5mm.

#### **SAR Evaluation Procedure**

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

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- Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.
- Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:
  - 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. 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.
  - 2) The maximum Measured value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were Measured to calculate the averages.

All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

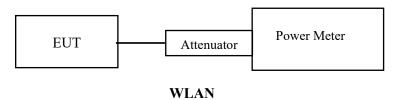
Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

### CONDUCTED OUTPUT POWER MEASUREMENT

#### **Test Procedure**

The RF output of the transmitter was connected to the input port of the Spectrum Analyzer through Connector.

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### **Maximum Target Output Power**

	Max Target Power(dBm)						
Mada/Dand		Channel					
Mode/Band	Low	Middle	High				
WLAN 2.4G ANT1(802.11b)	9.8	9.8	9.8				
WLAN 2.4G ANT1(802.11g)	8.5	8.0	7.0				
WLAN 2.4G ANT1(802.11n20)	9.0	8.0	8.5				
WLAN 2.4G ANT1(802.11ax20)	6.4	8.0	6.4				
WLAN 5.2G ANT1(802.11a)	14.5	14.5	14.5				
WLAN 5.2G ANT1(802.11n20)	14.5	14.0	14.5				
WLAN 5.2G ANT1(802.11n40)	14.5	/	14.5				
WLAN 5.2G ANT1(802.11ac20)	14.5	14.0	14.5				
WLAN 5.2G ANT1(802.11ac40)	14.5	/	14.5				
WLAN 5.2G ANT1(802.11ac80)	/	14.0	/				
WLAN 5.2G ANT1(802.11ax20)	14.7	14.5	14.5				
WLAN 5.2G ANT1(802.11ax40)	14.5	/	14.5				
WLAN 5.2G ANT1(802.11ax80)	/	14.0	/				
WLAN 5.8G ANT1(802.11a)	15.0	15.5	15.0				
WLAN 5.8G ANT1(802.11n20)	15.0	15.5	15.0				
WLAN 5.8G ANT1(802.11n40)	15.0	/	15.0				
WLAN 5.8G ANT1(802.11ac20)	15.0	15.5	15.0				
WLAN 5.8G ANT1(802.11ac40)	15.0	/	15.0				
WLAN 5.8G ANT1(802.11ac80)	/	15.0	/				
WLAN 5.8G ANT1(802.11ax20)	15.0	15.5	15.0				
WLAN 5.8G ANT1(802.11ax40)	14.8	/	15.5				
WLAN 5.8G ANT1(802.11ax80)	/	15.0	/				

Max Target Power(dBm)						
14 1 (2)	Channel					
Mode/Band	Low	Middle	High			
WLAN 2.4G ANT2(802.11b)	9.0	9.0	9.0			
WLAN 2.4G ANT2(802.11g)	7.5	7.5	7.5			
WLAN 2.4G ANT2(802.11n20)	8.5	7.5	7.5			
WLAN 2.4G ANT2(802.11ax20)	7.5	7.5	8.0			
WLAN 5.2G ANT2(802.11a)	14.0	13.5	14.0			
WLAN 5.2G ANT2(802.11n20)	14.0	14.0	14.0			
WLAN 5.2G ANT2(802.11n40)	14.0	/	14.0			
WLAN 5.2G ANT2(802.11ac20)	14.0	14.0	14.0			
WLAN 5.2G ANT2(802.11ac40)	14.0	/	14.0			
WLAN 5.2G ANT2(802.11ac80)	/	13.5	/			
WLAN 5.2G ANT2(802.11ax20)	14.3	13.8	14.0			
WLAN 5.2G ANT2(802.11ax40)	13.8	/	14.0			
WLAN 5.2G ANT2(802.11ax80)	/	14.0	/			
WLAN 5.8G ANT2(802.11a)	12.5	12.8	12.5			
WLAN 5.8G ANT2(802.11n20)	12.5	12.5	12.0			
WLAN 5.8G ANT2(802.11n40)	12.8	/	12.5			
WLAN 5.8G ANT2(802.11ac20)	12.5	12.5	12.0			
WLAN 5.8G ANT2(802.11ac40)	12.8	/	12.5			
WLAN 5.8G ANT2(802.11ac80)	/	12.5	/			
WLAN 5.8G ANT2(802.11ax20)	12.5	12.5	12.0			
WLAN 5.8G ANT2(802.11ax40)	12.8	/	12.8			
WLAN 5.8G ANT2(802.11ax80)	/	11.5	/			

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### **Test Results**

#### **WLAN 2.4G:**

Mode	Channel Frequency	Data Rate	RF Average Output Power (dBm)				
	(MHz)	Rate	ANT1	ANT2	Total		
	2412		9.71	8.47	/		
802.11b	2437	1Mbps	9.39	8.71	/		
	2462		9.05	8.90	/		
	2412		8.34	7.23	/		
802.11g	2437	6Mbps	7.75	7.30	/		
	2462		6.63	7.42	/		
	2412		8.56	8.19	11.39		
802.11 n20	2437	MCS0	7.74	7.08	10.43		
	2462		8.11	7.25	10.71		
802.11 ax20	2412		5.98	7.48	9.80		
	2437	MCS0	7.66	7.38	10.53		
	2462		5.90	7.86	10.00		

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Duty Cycle:

Mode	Channel Frequency	Duty Cycle(%)			
	(MHz)	ANT1	ANT2		
	2412				
802.11b	2437	90.43	89.36		
	2462				
	2412				
802.11g	2437	71.43	71.43		
	2462				
	2412				
802.11 n20	2437	61.54	61.54		
	2462				
	2412				
802.11 ax20	2437	58.33	58.33		
	2462				

Note: Duty cycle was from Radio report

### **WLAN 5.2G:**

	Channel	Data	RF Cor	ducted Outpu	t Power		
Mode	Frequency	Data	(dBm)				
	(MHz)	Rate	ANT1	ANT2	Total		
	5180		14.43	13.76	/		
802.11a	5200	6Mbps	14.06	13.39	/		
	5240		14.23	13.74	/		
	5180		14.30	13.83	17.08		
802.11 n20	5200	MCS0	13.86	13.48	16.68		
	5240		14.19	13.78	17.00		
802.11 n40	5190	MCS0	14.04	13.72	16.89		
802.11 1140	5230	MCSU	14.08	13.74	16.92		
	5180		14.32	13.87	17.11		
802.11 ac20	5200	MCS0	13.90	13.54	16.73		
	5240		14.22	13.81	17.03		
802.11 ac40	5190	MCS0	14.12	13.77	16.96		
802.11 ac40	5230	MCSU	14.12	13.79	16.97		
802.11 ac80	5210	MCS0	13.86	13.32	16.61		
	5180	_	14.56	14.15	17.37		
802.11 ax20	5200	MCS0	14.24	13.63	16.96		
	5240		14.22	13.95	17.10		
902 11 av 40	5190	MCCO	14.38	13.49	16.97		
802.11 ax40	5230	MCS0	14.25	13.69	16.99		
802.11 ax80	5210	MCS0	13.92	13.79	16.87		

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## Duty Cycle:

Mode	Channel Frequency	Duty C	ycle(%)	
	(MHz)	ANT1	ANT2	
	5180	64.29	64.29	
802.11a	5200	64.29	64.29	
	5240	62.96	62.96	
	5180			
802.11 n20	5200	92.91	92.91	
	5240			
802.11 n40	5190	86.67	86.67	
802.11 n40	5230	80.07	00.07	
	5180	92.96	92.91	
802.11 ac20	5200	92.91	92.91	
	5240	92.91	92.91	
802.11 ac40	5190	86.67	96 67	
802.11 ac40	5230	80.07	86.67	
802.11 ac80	5210	76.19	76.19	
	5180			
802.11 ax20	5200	91.07	91.07	
	5240			
802.11 ax40	5190	84.38	84.38	
602.11 ax40	5230	04.30	84.38	
802.11 ax80	5210	74.36	74.36	

Note: Duty cycle was from Radio report

### **WLAN 5.8G:**

Mode	Channel Frequency	Data Rate	RF Cor	nducted Outpu (dBm)	t Power
	(MHz)	Rate	ANT1	ANT2	Total
	5745		14.62	12.23	/
802.11a	5785	6Mbps	15.21	12.42	/
	5825		14.65	12.01	/
	5745		14.60	12.01	16.51
802.11 n20	5785	MCS0	15.04	12.49	16.96
	5825		14.70	11.89	16.53
802.11 n40	5755	MCS0	14.53	12.55	16.66
802.11 1140	5795	MCSU	14.65	12.29	16.64
	5745		14.65	12.18	16.60
802.11 ac20	5785	MCS0	15.05	12.39	16.93
	5825		14.74	12.00	16.59
802.11 ac40	5755	MCS0	14.55	12.45	16.64
802.11 ac40	5795	MCSU	14.72	12.26	16.67
802.11 ac80	5775	MCS0	14.62	12.32	16.63
	5745		14.59	12.20	16.57
802.11 ax20	5785	MCS0	15.17	12.20	16.94
	5825		14.80	11.94	16.61
902 11 av 40	5755	MCCO	14.65	12.55	16.74
802.11 ax40	5795	MCS0	15.26	12.62	17.15
802.11 ax80	5775	MCS0	14.93	11.43	16.53

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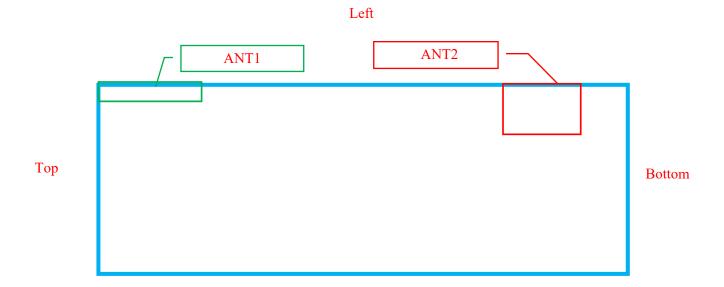
### Duty Cycle:

Mode	Channel Frequency	Duty C	ycle(%)	
	(MHz)	ANT1	ANT2	
	5745	64.29	62.96	
802.11a	5785	62.96	64.29	
	5825	64.29	64.29	
	5745			
802.11 n20	5785	92.91	92.91	
	5825			
802.11 n40	5755	86.67	86.67	
802.11 1140	5795	80.07	80.07	
	5745		92.91	
802.11 ac20	5785	92.91		
	5825			
802.11 ac40	5755	86.67	86.67	
802.11 ac40	5795	80.07	80.07	
802.11 ac80	5775	76.19	76.19	
	5745			
802.11 ax20	5785	91.07	91.07	
	5825			
802.11 ax40	5755	85.93	85.93	
602.11 ax40	5795	63.93	65.93	
802.11 ax80	5775	74.36	74.36	

Note: Duty cycle was from Radio report

### STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

#### **Antennas Location:**



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Right

**EUT Back View** 

Antenna	Description			
Ant 1	WIFI 2.4/5G			
Ant 2	WIFI 2.4/5G			

Note: The above statistics only include antennas with transmitting

#### SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

#### **Test Results:**

#### **Environmental Conditions:**

Temperature:	22 ~ 23.4℃	22.3 ~ 24℃	22.3~23.8℃
Relative Humidity:	54 ~ 58%	54 ~ 63%	56 ~ 68%
ATM Pressure:	101.3 kPa	101.3 kPa	101.3 kPa
Test Date:	2024/08/26	2024/08/27	2024/09/04

<sup>\*</sup> Testing was performed by Bob Lu, Calvin Li and Sid Luo.

#### **WLAN 2.4G ANT1:**

			Max.	Max.		1g	SAR (W/I	kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
	2412	802.11b	/	/	/	/	/	/	/
Head Left Cheek	2437	802.11b	9.39	9.8	1.099	1.11	0.150	0.18	1#
	2462	802.11b	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/
Head Left Tilt	2437	802.11b	9.39	9.8	1.099	1.11	0.075	0.09	2#
	2462	802.11b	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/
Head Right Cheek	2437	802.11b	9.39	9.8	1.099	1.11	0.223	0.27	3#
	2462	802.11b	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/
Head Right Tilt	2437	802.11b	9.39	9.8	1.099	1.11	0.093	0.11	4#
	2462	802.11b	/	/	/	/	/	/	/
D. 1. F	2412	802.11b	/	/	/	/	/	/	/
Body Front	2437	802.11b	9.39	9.8	1.099	1.11	0.092	0.11	5#
(5mm)	2462	802.11b	/	/	/	/	/	/	/
5 1 5 1	2412	802.11b	/	/	/	/	/	/	/
Body Back (5mm)	2437	802.11b	9.39	9.8	1.099	1.11	0.078	0.09	6#
(311111)	2462	802.11b	/	/	/	/	/	/	/

The data above was performed on 2024/08/26.

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<sup>1.</sup> When the 1-g SAR is  $\leq$  0.8W/kg, testing for other channels are optional.

<sup>2.</sup> When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

#### WLAN 2.4G ANT2:

			Max.	Max.		1g	SAR (W/I	kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
	2412	802.11b	/	/	/	/	/	/	/
Head Left Cheek	2437	802.11b	8.71	9.0	1.069	1.12	0.076	0.09	7#
	2462	802.11b	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/
Head Left Tilt	2437	802.11b	8.71	9.0	1.069	1.12	0.029	0.04	8#
	2462	802.11b	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/
Head Right Cheek	2437	802.11b	8.71	9.0	1.069	1.12	0.023	0.03	9#
	2462	802.11b	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/
Head Right Tilt	2437	802.11b	8.71	9.0	1.069	1.12	0.021	0.02	10#
	2462	802.11b	/	/	/	/	/	/	/
Dada Faart	2412	802.11b	/	/	/	/	/	/	/
Body Front	2437	802.11b	8.71	9.0	1.069	1.12	0.060	0.07	11#
(5mm)	2462	802.11b	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/
Body Back (5mm)	2437	802.11b	8.71	9.0	1.069	1.12	0.128	0.15	12#
(311111)	2462	802.11b	/	/	/	/	/	/	/

The data above was performed on 2024/08/26.

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<sup>1.</sup> When the 1-g SAR is≤ 0.8W/kg, testing for other channels are optional.

2.When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

#### **WLAN 5.2G ANT1:**

			Max.	Max.		1g	SAR (W/I	kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
	5180	802.11 ax20	/	/	/	/	/	/	/
Head Left Cheek	5200	802.11 ax20	14.24	14.5	1.062	1.10	0.489	0.57	13#
	5240	802.11 ax20	/	/	/	/	/	/	/
	5180	802.11 ax20	/	/	/	/	/	/	/
Head Left Tilt	5200	802.11 ax20	14.24	14.5	1.062	1.10	0.255	0.30	14#
	5240	802.11 ax20	/	/	/	/	/	/	/
	5180	802.11 ax20	14.56	14.7	1.033	1.10	1.020	1.16	15#
Head Right Cheek	5200	802.11 ax20	14.24	14.5	1.062	1.10	0.869	1.01	16#
	5240	802.11 ax20	14.22	14.5	1.067	1.10	0.810	0.95	17#
	5180	802.11 ax20	/	/	/	/	/	/	/
Head Right Tilt	5200	802.11 ax20	14.24	14.5	1.067	1.10	0.404	0.47	18#
	5240	802.11 ax20	/	/	/	/	/	/	/
D. 1- F	5180	802.11 ax20	/	/	/	/	/	/	/
Body Front	5200	802.11 ax20	14.24	14.5	1.067	1.10	0.438	0.51	19#
(5mm)	5240	802.11 ax20	/	/	/	/	/	/	/
	5180	802.11 ax20	/	/	/	/	/	/	/
Body Back (5mm)	5200	802.11 ax20	14.24	14.5	1.067	1.10	0.213	0.25	20#
(311111)	5240	802.11 ax20	/	/	/	/	/	/	/

The data above was performed on 2024/08/27.

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- 1. When the 1-g SAR is  $\leq 0.8$ W/kg, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
- 3.For 802.11ax20 mode power is the largest among 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80, 802.11ax20 mode as initial test configuration is selected to test.

#### **WLAN 5.2G ANT2:**

			Max.	Max.		1g	SAR (W/	kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
	5180	802.11 ax20	/	/	/	/	/	/	/
Head Left Cheek	5200	802.11 ax20	13.63	13.8	1.040	1.10	0.001	0.01	21#
	5240	802.11 ax20	/	/	/	/	/	/	/
	5180	802.11 ax20	/	/	/	/	/	/	/
Head Left Tilt	5200	802.11 ax20	13.63	13.8	1.040	1.10	0.011	0.01	22#
	5240	802.11 ax20	/	/	/	/	/	/	/
	5180	802.11 ax20	/	/	/	/	/	/	/
Head Right Cheek	5200	802.11 ax20	13.63	13.8	1.040	1.10	0.078	0.09	23#
	5240	802.11 ax20	/	/	/	/	/	/	/
	5180	802.11 ax20	/	/	/	/	/	/	/
Head Right Tilt	5200	802.11 ax20	13.63	13.8	1.040	1.10	0.067	0.08	24#
	5240	802.11 ax20	/	/	/	/	/	/	/
D. 1. F	5180	802.11 ax20	/	/	/	/	/	/	/
Body Front	5200	802.11 ax20	13.63	13.8	1.040	1.10	0.158	0.18	25#
(5mm)	5240	802.11 ax20	/	/	/	/	/	/	/
	5180	802.11 ax20	14.15	14.3	1.035	1.10	0.863	0.98	26#
Body Back (5mm)	5200	802.11 ax20	13.63	13.8	1.040	1.10	1.050	1.20	27#
(311111)	5240	802.11 ax20	13.95	14.0	1.012	1.10	1.080	1.20	28#

The data above was performed on 2024/08/27.

Report No.: 2401V86481E-SAA

- 1. When the 1-g SAR is  $\!\leq\!0.8W/kg,$  testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
- 3. For 802.11ax20 mode power is the largest among 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80, 802.11ax20 mode as initial test configuration is selected to test.

#### **WLAN 5.8G ANT1:**

			Max.	Max.		1g S	SAR (W/l	kg)	
EUT Position	Frequency (MHz)	Test Mode	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	5755	802.11 ax40	/	/	/	/	/	/	/
Head Left Cheek	5795	802.11 ax40	15.26	15.5	1.057	1.16	0.577	0.71	29#
Head Left Tilt	5755	802.11 ax40	/	/	/	/	/	/	/
Head Left Till	5795	802.11 ax40	15.26	15.5	1.057	1.16	0.442	0.54	30#
Hand Dight Charle	5755	802.11 ax40	14.65	14.8	1.035	1.16	0.985	1.19	31#
Head Right Cheek	5795	802.11 ax40	15.26	15.5	1.057	1.16	0.889	1.09	32#
II 1 D : -1.4 T:14	5755	802.11 ax40	/	/	/	/	/	/	/
Head Right Tilt	5795	802.11 ax40	15.26	15.5	1.057	1.16	0.596	0.73	33#
Body Front	5755	802.11 ax40	/	/	/	/	/	/	/
(5mm)	5795	802.11 ax40	15.26	15.5	1.057	1.16	0.556	0.68	34#
Body Back	5755	802.11 ax40	/	/	/	/	/	/	/
(5mm)	5795	802.11 ax40	15.26	15.5	1.057	1.16	0.377	0.46	35#

The data above was performed on 2024/09/04.

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- 1. When the 1-g SAR is  $\leq 0.8$ W/kg, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
- 3. For 802.11ax40 mode power is the largest among 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80, 802.11ax40 mode as initial test configuration is selected to test.

#### **WLAN 5.8G ANT2:**

			Max.	Max.		1g S	SAR (W/I	kg)	
EUT Position	Frequency (MHz)	<b>Test Mode</b>	Meas. Power (dBm)	Rated Power (dBm)	Scaled Factor	Duty cycle Factor	Meas. SAR	Scaled SAR	Plot
Head Left Cheek	5755	802.11 ax40	/	/	/	/	/	/	/
Head Left Cheek	5795	802.11 ax40	12.62	12.8	1.042	1.16	0.140	0.17	36#
Head Left Tilt	5755	802.11 ax40	/	/	/	/	/	/	/
Head Left Till	5795	802.11 ax40	12.62	12.8	1.042	1.16	0.082	0.10	37#
II.a. d Diales Chards	5755	802.11 ax40	/	/	/	/	/	/	/
Head Right Cheek	5795	802.11 ax40	12.62	12.8	1.042	1.16	0.098	0.12	38#
II 1 D : -1.4 T:14	5755	802.11 ax40	/	/	/	/	/	/	/
Head Right Tilt	5795	802.11 ax40	12.62	12.8	1.042	1.16	0.049	0.06	39#
Body Front	5755	802.11 ax40	/	/	/	/	/	/	/
(5mm)	5795	802.11 ax40	12.62	12.8	1.042	1.16	0.161	0.20	40#
Body Back	5755	802.11 ax40	12.55	12.8	1.059	1.16	0.815	1.00	41#
(5mm)	5795	802.11 ax40	12.62	12.8	1.042	1.16	0.842	1.02	42#

The data above was performed on 2024/09/04.

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- 1. When the 1-g SAR is≤ 0.8W/kg, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
- 3.For 802.11ax40 mode power is the largest among 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80, 802.11ax40 mode as initial test configuration is selected to test.

### **SAR Measurement Variability**

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These 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:

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- 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  $\geq 0.80$  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 (~ 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 Highest Measured SAR Configuration in Each Frequency Band

#### Head

SAR probe	SAR probe Frequency Frequency		ELIT D. 'A'	Meas. SA	Largest to Smallest		
calibration point	Band	Freq.(MHz)	EUT Position	Original	Repeated	SAR Ratio	
5250MHz	5.2G WLAN	5180	Head Right Cheek	1.020	0.996	1.02	
5800MHz	5.8G WLAN	5755	Head Right Cheek	0.985	0.963	1.02	

#### **Body**

SAR probe	Frequency	E (MII-)	EUT D:4:	Meas. SA	R (W/kg)	Largest to Smallest SAR Ratio	
calibration point	Band	Freq.(MHz)	EUT Position	Original	Repeated		
5250MHz	5.2G WLAN	5240	Body Back	1.080	1.048	1.03	
5800MHz	5.8G WLAN	5795	Body Back	0.842	0.833	1.01	

- 1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.
- 2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
- 3. 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.

### SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

#### **Simultaneous Transmission:**

Description of Simultaneous Transmit Capabilities								
Transmitter Combination	Simultaneous?	Hotspot?						
WLAN 2.4G ANT1+ WLAN 2.4G ANT2	V	×						
WLAN 5.2G ANT1 + WLAN 5.2G ANT2	$\sqrt{}$	×						
WLAN 5.8G ANT1 + WLAN 5.8G ANT2	$\sqrt{}$	×						
WLAN 2.4G + WLAN 5.2G	×	×						
WLAN 2.4G + WLAN 5.8G	×	×						
WLAN 5.2G + WLAN 5.8G	×	×						

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#### **Simultaneous SAR test exclusion considerations:**

Mode(ANT1+ANT2)	Position	Reported S	SAR(W/kg)	ΣSAR <
11000(111/11/11/12)	1 00242022	ANT1	ANT2	1.6W/kg
	Head Left Cheek	0.18	0.09	0.27
	Head Left Tilt	0.09	0.04	0.13
2.40 991.431	Head Right Cheek	0.27	0.03	0.30
2.4G WLAN	Head Right Tilt	0.11	0.02	0.13
	Body Front	0.11	0.07	0.18
	Body Back	0.09	0.15	0.24
	Head Left Cheek	0.57	0.01	0.58
	Head Left Tilt	0.30	0.01	0.31
5.2G WLAN	Head Right Cheek	1.16	0.09	1.25
3.2G WLAN	Head Right Tilt	0.47	0.08	0.55
	Body Front	0.51	0.18	0.69
	Body Back	0.25	1.20	1.45
	Head Left Cheek	0.71	0.17	0.88
	Head Left Tilt	0.54	0.10	0.64
5.8G WLAN	Head Right Cheek	1.19	0.12	1.31
	Head Right Tilt	0.73	0.06	0.79
	Body Front	0.68	0.20	0.88
	Body Back	0.46	1.02	1.48

#### **Conclusion:**

Sum of SAR:  $\Sigma SAR \leq 1.6$  W/kg therefore simultaneous transmission SAR with Volume Scans is **not** required.

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SAR Plots	
Please Refer to the Attachment.	
lease Refer to the Attachment.	

### APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

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Measu	Measurement uncertainty evaluation for IEEE1528-2013 SAR test						
Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
		Measuremen	t system				
Probe calibration	13.9	N	1	1	1	13.9	13.9
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	$\sqrt{3}$	0	0	0.0	0.0
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
Detection limits	1.0	R	√3	1	1	0.6	0.6
Modulation response	4.0	R	√3	1	1	2.3	2.3
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambientconditions – noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions-reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max.  SAR evaluation	3.9	R	√3	1	1	2.3	2.3
		Test sample	related				
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	√3	1	1	2.9	2.9
SAR scaling	2.0	R	√3	1	1	1.2	1.2
	Pl	nantom and tissu	ie paramete	rs			
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity measurement	5.5	N	1	0.78	0.71	4.3	3.9
Liquid permittivity measurement	2.9	N	1	0.23	0.26	0.7	0.8
Liquid conductivity—temperature uncertainty	1.7	R	$\sqrt{3}$	0.78	0.71	0.8	0.7
Liquid permittivity—temperature uncertainty	2.7	R	√3	0.23	0.26	0.4	0.4
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.3	23.9

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APPENDIX B EUT TEST POSITION PHOTOS				
Please Refer to the Attachment.				

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APPENDIX C PROBE CALIBRATION CERTIFICATES					
Please Refer to the Attachment.					

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APPENDIX D CALIBRATION CERTIFICATES	
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TR-EM-SA005

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