

SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR240900348004

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# SAR TEST REPORT

SZCR2409003480AT Application No.:

Applicant: **BonCor Medical** 

Address of Applicant: 31000 Telegraph Rd, Suite 110, Bingham Farms Michigan 48025, United States

Manufacturer: Hunan Jiai Intelligent Technology Co., Ltd

Address of Manufacturer: 2nd Floor, Building 1, Science and Technology Innovation Industrial Park Phase

1, Dengta Road, Wuxi Street Economic Development Zone, Qiyang City, Hunan

Province, China

Hunan Jiai Intelligent Technology Co., Ltd Factory:

Address of Factory: 2nd Floor, Building 1, Science and Technology Innovation Industrial Park Phase

1, Dengta Road, Wuxi Street Economic Development Zone, Qiyang City, Hunan

Province. China

**EUT Description:** NoveeWatch Model No.: NoveeWatch Trade Mark: NoveeWatch FCC ID: 2BK6SNOVEE

Standards: FCC 47CFR §2.1093

Date of Receipt: 2024-09-09

Date of Test: 2024-11-11 to 2024-12-27

Date of Issue: 2024-12-30

Test Result: PASS \*

Kenv Xu **EMC Laboratory Manager** 

Keny. Ku



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In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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	Revision Record		
Version	Description	Date	Remark
01		2024-12-30	

Authorized for issue by:		
	Bolisonti	
	Edison Li/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	_



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## **TEST SUMMARY**

1201 0011111111111			
Frequency Band	Maximum Reported SAR 1g(W/kg)	Maximum Reported SAR 10g(W/kg)	
	Next to the mouth	Extremity	
LTE Band 2	0.73	0.88	
LTE Band 4	0.91	1.09	
LTE Band 5	0.08	0.15	
LTE Band 12	0.23	0.83	
LTE Band 17	0.22	0.82	
LTE Band 66	1.10	1.13	
WIFI 2.4G	0.42	0.71	
Maximum Simultaneous SAR	1.52	1.84	
SAR Limited(W/kg)	1.6	4.0	

Note: The Simultaneous transmission SAR is the same test position of the WWAN Antenna + WiFi Antenna.



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#### 1 **General Information**

## 1.1 General Description of EUT

Product Name:	NoveeWatch			
Model No.:	NoveeWatch			
Trade Mark:	NoveeWatch			
Product Phase:	production unit			
Device Type:	portable device			
Exposure Category:	uncontrolled environmer	nt / general population		
IMEI:	861265061384589			
Hardware Version:	ZW41_V1.2			
Software Version:	L08PRO_W23_US_BO	NCOR_V1.17		
Antenna Type:	FPC Antenna			
Device Operating Configurations:				
Modulation Mode:	LTE:QPSK,16QAM, WIFI:DSSS,OFDM;			
Power Class:	3, tested with power control "max power"(LTE Band)			
	Band	Tx(MHz)	Rx(MHz)	
	LTE Band 2	1850 ~1910	1930 ~1990	
	LTE Band 4	1710~1755	2110~2155	
Frequency Bands:	LTE Band 5	824~849	869-894	
	LTE Band 12	699~716	729~746	
	LTE Band 17	704~716	734~746	
	LTE Band 66	1710~1780	2110~2200	
	WIFI 2.4G	2412~2462	2412~2462	
RF Cable:	☑Provided by applicant ☐Provided by the laboratory			
	Model:	622831		
Pattory Information	Normal Voltage:	DC 3.85V		
Battery Information:	Rated capacity:	700mAh	700mAh	
	Manufacturer:	Shenzhen AIBOD tech	nnology 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.

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### 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 941225 D05	SAR for LTE Devices v02r05
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02





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### 1.3 RF exposure limits

Human Evnagura	Uncontrolled Environment	Controlled Environment
Human Exposure	General Population	Occupational
Spatial Peak SAR*	1.60 mW/a	9.00 mW/a
(Brain*Trunk)	1.60 mW/g	8.00 mW/g
Spatial Average SAR**	0.00 \//	0.40 mW/g
(Whole Body)	0.08 mW/g	
Spatial Peak SAR***	4.00 = 10/2	20.00 mW/g
(Hands/Feet/Ankle/Wrist)	4.00 mW/g	

#### Notes:

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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<sup>\*</sup> 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

<sup>\*\*</sup> The Spatial Average value of the SAR averaged over the whole body.

<sup>\*\*\*</sup> 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.



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### 1.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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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#### **Laboratory Environment** 2

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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#### **SAR Measurements System Configuration** 3

#### 3.1 The SAR Measurement System

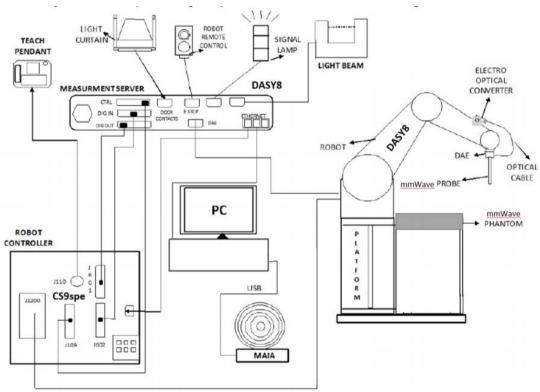
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|2)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity 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, ADconversion, 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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## 3.2 Isotropic E-field Proble EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
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)
Directivity	± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
	Overall length: 337 mm (Tip: 20 mm)
Dimensions	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





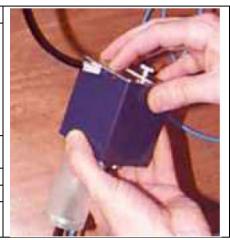
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#### **Data Acquisition Electronics (DAE)** 3.3

Model	DAE
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 or higher 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



### **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.





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#### **ELI Phantom** 3.5

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 IEEE 1528 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.



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#### **Device Holder for Transmitters** 3.6



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  $\varepsilon$ =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.





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#### 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≤2GHz), 30mm\*30mm\*30mm (f for 2-3GHz) and 24mm\*24mm\*22mm (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 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 straightforward 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.



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			≤ 3 GHz	> 3 GHz
Maximum distance from (geometric center of pr			5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle surface normal at the n			30° ± 1°	20° ± 1°
			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan sp	atial resol	ation: ∆x <sub>Area</sub> , ∆y <sub>Area</sub>	When the x or y dimension o measurement plane orientation the measurement resolution r x or y dimension of the test d measurement point on the test	on, is smaller than the above, must be ≤ the corresponding levice with at least one
Maximum zoom scan s	patial reso	lution: Δx <sub>Zoom</sub> , Δy <sub>Zoom</sub>	≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm*	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform	grid: ∆z <sub>Z∞m</sub> (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded	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
	grid	Δz <sub>Zoom</sub> (n>1): between subsequent points	ent $\leq 1.5 \cdot \Delta z_{Z_{00m}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

### 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. ± 5 %



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### 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

- Crest factor Media parameters: - Conductivity

- Density

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.

۶

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:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel I (I = x, y, z)

Ui = 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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$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$



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H-field probes:

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

With Vi = compensated signal of channel I

Normi = sensor sensitivity of channel I

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aii = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel I in V/m

Hi = magnetic field strength of channel I in A/m

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

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

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$
  
The primary field data are used to calculate the derived field units.  
 $SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$ 

SAR = local specific absorption rate in mW/g

Etot = 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.

$$P_{pwe} = E_{tot}^2 2/3770$$
 or  $P_{pwe} = H_{tot}^2 \cdot 37.7$  with Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = 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 tissueequivalent 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 (~ 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.



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#### **Desciption of Test Position** 5

### 5.1 Wristwatch and Wrist-Worn Transmitters

Transmitters that are built-in within a wristwatch, or similar wrist-worn devices, typically operate in "speakerphone mode" for voice communication, with the device worn on the wrist and positioned next to the mouth. Operations next to the mouth requires 1-g SAR measurement, while the wrist-worn condition requires 10-g extremity SAR measurement.

SAR test exemptions for 10-g extremity with the wrist and 1-g with face exposure condition may be applied. When SAR evaluation is required, next-to-mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom to measure head SAR. The wrist bands shall be strapped together to represent normal use conditions.

SAR for wrist exposure is evaluated with the back of the device positioned in direct contact against a flat phantom filled with body tissue-equivalent medium. The wrist bands shall be unstrapped and touching the phantom. The space introduced between the transmitter and the flat phantom must be representative of actual use conditions.





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#### **SAR System Verification Procedure** 6

#### **Tissue Simulate Liquid** 6.1

### 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		Frequency (MHz)									
(% by weight)	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						

Sucrose: 98+% Pure Sucrose

HEC: Hydroxyethyl Cellulose

Salt: 99+% Pure Sodium Chloride Water: De-ionized, 16 MΩ+ resistivity

Tween: Polyoxyethylene (20) sorbitan monolaurate

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





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### 6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity ( $\sigma$ ) and Permittivity ( $\epsilon r$ ) are listed in Table 2. For the SAR measurement given in this report.

The temperature variation of the Tissue Simulate Liquids was 22±2°C.

			Measu	rement for Ti	ssue Simulat	te Liquid			
Tissue	Measured Frequency			Target Tis	Target Tissue (±5%)		ation ±5%)	Liquid Temp.	Test Date
Туре	(MHz)	٤r	σ(S/m)	٤r	σ(S/m)	ε <sub>r</sub>	σ(S/m)	(℃)	root Duto
750 Head	750	41.800	0.888	41.90	0.89	-0.24%	-0.22%	22.6	2024/11/6
835 Head	835	41.700	0.909	41.50	0.90	0.48%	1.00%	22.6	2024/11/7
1750 Head	1750	39.200	1.310	40.10	1.37	-2.24%	-4.38%	22.2	2024/12/23
1900 Head	1900	38.600	1.450	40.00	1.40	-3.50%	3.57%	22.2	2024/12/23
2450 Head	2450	39.500	1.860	39.20	1.80	0.77%	3.33%	22.6	2024/11/7

Table 2: Measurement result of Tissue electric parameters





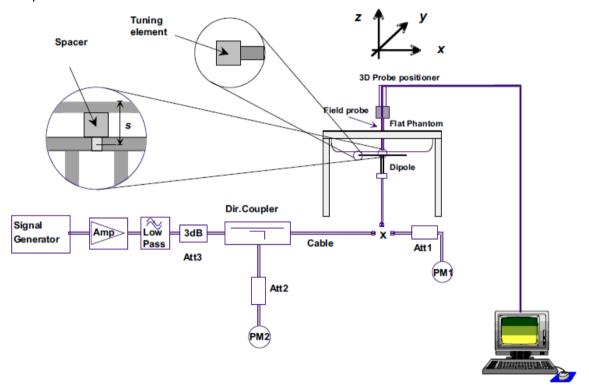
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#### **SAR System Check** 6.2

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 +/- 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±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15±0.5 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



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### 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  $5\Omega$  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)

	SAR System Validation Result(s)										
Validati		Measured SAR 250mW	SVD	SAR		Target SAR (normalized to 1W)		Devi	Deviation Within ±10%)		Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- 10- g(W/kg)g(W/kg)		(℃)	
D750V3	Head	2.15	1.42	8.60	5.68	8.37					2024/11/6
D835V2	Head	2.22	1.46	8.88	5.84	9.53	6.29	-6.82%	-7.15%	22.6	2024/11/7
D1750V2	Head	9.51	5.13	38.04	20.52	36.60	19.30	3.93%	6.32%	22.2	2024/12/23
D1900V2	Head	10.8	5.62	43.20	22.48	39.50	20.60	9.37%	9.13%	22.2	2024/12/23
D2450V2	Head	13.80	6.53	55.20	26.12	52.20	24.30	5.75%	7.49%	22.6	2024/11/7

Table 3: SAR System Check Result

### 6.2.3 Detailed System Check Results

Please see the Appendix A





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#### 7 **Test Configuration**

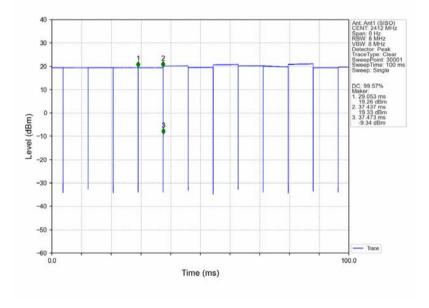
#### **Operation Configurations** 7.1

### 7.1.1 WIFI Test Configuration

A Wi-Fi device must be configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools for SAR measurement.

### 7.1.1.1 Duty cycle

1) Wi-Fi 2.4GHz 802.11b Duty cycle=99.57%





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#### 7.1.1.2 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

- 1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).
- 2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.
- 3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.





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### 7.1.1.3 Subsequent Test Configuration Procedures

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

- 1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- 2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 3) . The number of channels in the initial test configuration and subsequent test configuration can be different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.
- SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.
- SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
- 4) . SAR measurements for the remaining highest specified maximum output power OFDM transmission mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:
- replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)
- replace "initial test configuration" with "all tested higher output power configurations"





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#### 7.1.1.4 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

### 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) . When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 2.4 GHz 802.11q/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11q/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) . When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 2) . When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

### **SAR Test Requirements for OFDM configurations**

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.





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### 7.1.2 LTE Test Configuration

LTE modes were tested according to FCC KDB 941225 D05 publication. Please see notes after the tabulated SAR data for required test configurations. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The Radio Communication Analyzer was used for LTE output power measurements and SAR testing. Max power control was used so the UE transmits with maximum output power during SAR testing. SAR must be measured with the maximum TTI (transmit time interval) supported by the device in each LTE configuration.

#### TDD LTE test consideration

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

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

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

### Frame structure type 2:

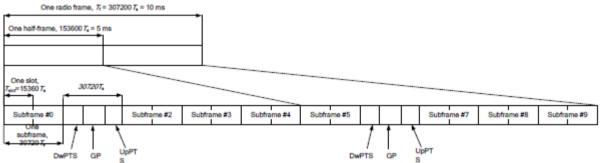


Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

	Norm	nal cyclic prefix in	downlink	Extend	led cyclic prefix i	n downlink
Special subframe	DwPTS	Up	UpPTS		UpPTS	
configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	6592.Ts			7680.Ts		
1	19760.Ts			20480.Ts	0400 T-	0500 T-
2	21952.Ts	2192.Ts	2560.Ts	23040.Ts	2192.Ts	2560.Ts
3	24144.Ts			25600.Ts		
4	26336.Ts			7680.Ts	4004 T	5400 T
5	6592.Ts	4384.Ts	5120.Ts	20480.Ts	4384.Ts	5120.Ts





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6	19760.Ts		23040.Ts		
7	21952.Ts		25600.Ts		
8	24144.Ts		-	-	-
9	13168.Ts		-	-	-

### Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				St	ubframe	e numb	er			
configuration	Uplink Switch- point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	С
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle=[Extended cyclic prefix in uplink x (Ts) x # of S + # of U1/10ms

	zaty cycle=[=xtc		, се	. •	о.р	( .	<b>-</b> / / / //	• •	• .			
Uplink-		Subframe Number										Calculated
Downlink	Downlink-to- Uplink Switch-											Duty
Configur	point Periodicity	0	1	2	3	4	5	6	7	8	9	Cycle (%)
ation												, ,
0	5 ms	D	S	U	U	U	D	S	U	C	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	Ū	D	53.33

### A) Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

### B) MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 - 6.2.5 under Table 6.2.3-1.

Modulation		Channel b	oandwidth/	Transmission	bandwidth		MPR
Modulation	1.4	3	5	10	15	20	(dB)





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	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	0
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	1
16QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	2
64QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	2
64QAM	> 5	> 4	> 8	> 12	> 16	> 18	3
256QAM				≥1			5

### C) A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

### D) Largest channel bandwidth standalone SAR test requirements

1) QPSK with 1 RB allocation

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel. 2) QPSK with 50% RB allocation

The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

For QPSK with 100% RB allocation. SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

4) Higher order modulations

For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in above sections to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

E) Other channel bandwidth standalone SAR test requirements

For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section A) to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.





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#### **Test Result** 8

#### 8.1 Measurement of RF Conducted Power

### 8.1.1 Conducted Power of LTE

	LTE B	and 2		Conducted Po	wer(dBm)		
			55 "	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18607	18900	19193	Tune up
		1	0	19.15	19.15	20.00	20.50
		1	2	18.96	19.00	20.09	20.50
		1	5	19.49	19.06	20.07	20.50
	QPSK	3	0	18.87	19.16	20.05	20.50
		3	2	18.96	19.09	20.05	20.50
		3	3	18.91	19.10	19.97	20.50
4.4844-		6	0	17.96	18.22	18.97	19.50
1.4MHz		1	0	18.35	17.79	18.88	19.50
		1	2	18.23	17.77	17.86	19.50
		1	5	18.48	18.23	19.48	19.50
	16QAM	3	0	18.45	18.18	19.15	19.50
		3	2	18.63	18.12	19.27	19.50
		3	3	17.80	18.29	19.34	19.50
		6	0	16.49	17.53	17.18	18.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
	au.au.a	112 0.20	112 0001	18615	18900	19185	
		1	0	19.21	19.28	20.03	20.50
	1	7	19.02	19.86	20.04	20.50	
		1	14	18.99	19.21	20.08	20.50
	QPSK	8	0	17.96	17.96	18.95	19.50
		8	4	17.94	18.26	19.12	19.50
		8	7	17.90	18.22	19.07	19.50
3MHz		15	0	17.99	18.14	19.06	19.50
JIVII IZ		1	0	18.39	18.16	19.44	19.50
		1	7	18.51	18.21	19.27	19.50
		1	14	18.31	18.43	19.44	19.50
	16QAM	8	0	17.19	17.73	18.23	18.50
		8	4	17.18	17.38	18.05	18.50
		8	7	17.37	17.44	18.19	18.50
		15	0	17.11	17.67	18.14	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
		3.20		18625	18900	19175	
		1	0	18.82	19.11	20.17	20.50
		1	13	18.97	19.25	20.08	20.50
5MHz	QPSK	1	24	19.49	19.50	20.41	20.50
JIVITIZ	WF3N	12	0	18.11	18.06	19.00	19.50
		12	6	18.00	18.23	18.83	19.50
		12	13	18.08	18.35	19.07	19.50



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i		25	0	18.02	18.26	18.90	19.50
		1	0	19.19	19.22	19.29	19.50
		1	13	18.43	18.93	19.48	19.50
		1	24	17.94	18.77	19.33	
	16QAM	12	0	17.15	17.71	17.84	
		12	6	17.07	17.64	17.96	
		12	13	17.12	17.30	17.98	
		25	0	17.64	17.64	18.23	
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	18650	18900	19150	Tune up
		1	0	18.97	19.23	20.22	20.50
		1	25	18.91	19.58	20.26	20.50
		1	49	19.55	19.76	20.26	
	QPSK	25	0	17.85	18.26	18.97	19.50
		25	13	18.00	18.26	19.04	19.50
		25	25	18.07	18.33	18.87	
		50	0	17.95	18.24	18.97	19.50
10MHz		1	0	18.39	18.30	19.23	19.50
		1	25	18.23	17.92	19.41	19.50
		1	49	19.08	17.57	19.36	19.50
	16QAM	25	0	17.19	17.18	18.29	18.50
		25	13	17.80	17.74	18.27	18.50
		25	25	17.20	17.32	18.10	18.50
		50	0	17.61	17.72	18.34	18.50
			55 %	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18675	18900	19125	Tune up
		1	0	18.87	19.08	19.93	20.50
		1	38	19.05	19.26	20.04	20.50
		1	74	20.46	19.94	20.20	20.50
	QPSK	36	0	17.98	17.99	19.00	19.50
		36	18	18.02	18.28	19.10	19.50
		36	39	18.05	18.35	18.88	19.50
455511		75	0	17.96	18.31	18.95	19.50
15MHz		1	0	18.48	17.88	19.40	19.50
		1	38	18.38	18.33	19.19	19.50
		1	74	18.96	18.18	19.22	19.50
	16QAM	36	0	17.47	17.39	18.10	18.50
		36	18	17.00	17.81	17.88	18.50
		36	39	17.50	17.65	18.02	18.50
		75	0	17.03	17.83	18.06	18.50
5			55 " .	Channel	Channel	Channel	_
Bandwidth	Modulation	RB size	RB offset	18700	18900	19100	Tune up
		1	0	19.66	19.06	20.17	20.50
		1	50	19.74	19.19	20.28	20.50
		1	99	18.91	19.85	20.27	20.50
000411-	QPSK	50	0	17.98	18.14	18.89	19.50
20MHz		50	25	18.11	18.29	18.93	19.50
		50	50	18.50	18.63	19.02	19.50 18.50 18.50 18.50 18.50 18.50 20.50 20.50 19.50
		100	0	18.06	18.38	18.85	19.50
	16QAM	1	0	18.28	18.11	19.44	



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1	50	18.24	18.31	18.30	19.50
1	99	17.86	18.85	19.09	19.50
50	0	17.58	17.59	17.92	18.50
50	25	17.14	17.76	18.00	18.50
50	50	17.54	17.62	18.12	18.50
100	0	17.71	17.74	18.21	18.50

	LTE E	Band 4			Conducted Pov	ver(dBm)	
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	19957	20175	20393	Tune up
		1	0	18.32	17.69	16.88	18.50
		1	2	18.27	17.53	17.01	18.50
		1	5	18.24	17.67	16.77	18.50
	QPSK	3	0	18.09	17.55	16.78	18.50
		3	2	18.01	17.59	16.71	18.50
		3	3	17.92	17.52	16.64	18.50
4 48411-		6	0	17.01	17.01	16.51	17.50
1.4MHz		1	0	16.73	16.68	16.34	17.50
		1	2	17.13	16.90	15.74	17.50
		1	5	16.85	17.04	15.81	17.50
	16QAM	3	0	17.32	16.68	15.94	17.50
		3	2	17.34	16.83	15.96	17.50
		3	3	17.13	16.80	16.59	17.50
		6	0	15.96	15.76	16.15	17.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun
bandwidth	Modulation	RD SIZE	RB offset	19965	20175	20385	Tune up
		1	0	18.10	17.86	17.05	18.50
		1	7	17.94	17.82	17.00	18.50
	QPSK	1	14	18.00	17.80	16.88	18.50
		8	0	17.03	16.62	16.37	17.50
		8	4	17.02	16.64	16.22	17.50
		8	7	16.97	16.58	16.19	17.50
3MHz		15	0	17.00	16.60	15.80	17.50
SIVII IZ		1	0	17.11	16.88	16.50	17.50
		1	7	17.05	17.03	16.81	17.50
		1	14	17.03	16.87	16.49	17.50
	16QAM	8	0	16.18	15.74	15.37	17.00
		8	4	16.23	15.77	15.34	17.00
		8	7	16.28	15.71	15.26	17.00
		15	0	16.19	15.70	15.27	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
24114111411	modulation	115 0120	112 011001	19975	20175	20375	rano ap
Τ		1	0	17.92	17.58	17.58	18.50
		1	13	17.83	17.95	17.01	18.50
5MHz	QPSK	1	24	17.89	17.34	16.75	18.50
JIII 12	QI OIL	12	0	17.05	16.57	15.86	17.50
		12	6	17.05	16.50	15.87	17.50
		12	13	16.87	16.51	15.76	17.50



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				i agc.	30 01		
		25	0	16.93	16.55	15.98	17.50
		1	0	17.39	16.99	16.30	17.50
		1	13	17.47	17.03	15.63	17.50
		1	24	17.05	16.91	16.08	17.50
	16QAM	12	0	15.92	15.63	15.10	17.00
		12	6	16.12	15.60	15.27	17.00
		12	13	16.01	15.61	15.15	17.00
		25	0	16.22	15.63	15.41	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Banawiath	Modulation	IND SIZE	IND Ollset	20000	20175	20350	Tune up
		1	0	17.98	17.89	17.97	18.50
		1	25	17.80	17.84	17.08	18.50
		1	49	17.78	17.87	16.70	18.50
	QPSK	25	0	16.94	16.60	16.23	17.50
		25	13	16.95	16.56	16.02	17.50
		25	25	16.93	16.62	15.88	17.50
10MHz		50	0	16.83	16.55	16.05	17.50
TOWINZ		1	0	17.40	16.54	16.83	17.50
		1	25	17.42	16.91	16.37	17.50
		1	49	17.21	17.09	16.08	17.50
	16QAM	25	0	16.20	15.75	15.17	17.00
		25	13	16.54	15.66	15.46	17.00
		25	25	15.91	15.67	15.18	17.00
		50	0	15.93	15.70	15.18	17.00
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up
Danuwium	Modulation	KD SIZE	KD Ollset	20025	20175	20325	Tune up
	QPSK	1	0	17.93	17.89	17.46	18.50
		1	38	17.75	17.66	17.56	18.50
		1	74	17.70	17.55	16.70	18.50
		36	0	16.89	16.74	16.38	17.50
		36	18	16.95	16.50	16.30	17.50
		36	39	16.96	16.66	15.99	17.50
15MHz		75	0	16.91	16.65	16.12	17.50
ISIVITIZ		1	0	17.39	17.08	16.58	17.50
		1	38	17.34	16.81	15.99	17.50
		1	74	17.40	16.88	16.01	17.50
	16QAM	36	0	15.90	15.71	15.59	17.00
		36	18	15.72	15.58	15.49	17.00
		36	39	16.34	15.55	15.18	17.00
		75	0	15.93	15.65	15.21	17.00
Randwidth	Modulation	DR cizo	DR offeet	Channel	Channel	Channel	Tuna
Bandwidth	Modulation	RB size	RB offset	20050	20175	20300	Tune up
		1	0	17.84	17.79	17.49	18.50
		1	50	17.67	17.66	18.01	18.50
		1	99	17.70	17.57	16.89	18.50
20MH-	QPSK	50	0	16.82	16.66	16.36	17.50
20MHz		50	25	16.79	16.64	16.43	17.50
		50	50	16.74	16.48	16.12	17.50
		100	0	16.84	16.51	16.16	17.50
	16QAM	1	0	16.87	16.73	16.36	17.50



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1	50	17.43	17.30	16.80	17.50
1	99	16.38	16.73	16.26	17.50
50	0	16.38	15.66	15.56	17.00
50	25	15.88	15.73	15.31	17.00
50	50	15.81	15.61	15.22	17.00
100	0	15.85	15.71	15.43	17.00

	LTE E	Band 5		Conducted Power(dBm)				
			55 %	Channel	Channel	Channel	_	
Bandwidth	Modulation	RB size	RB offset	20407	20525	20643	Tune up	
		1	0	22.27	22.49	22.77	23.00	
		1	2	22.18	22.48	22.54	23.00	
		1	5	22.23	22.56	22.50	23.00	
	QPSK	3	0	22.12	22.42	22.26	23.00	
		3	2	22.18	22.39	22.29	23.00	
		3	3	22.12	22.41	22.28	23.00	
4 4001-		6	0	21.18	21.34	21.19	23.00	
1.4MHz —		1	0	21.73	21.52	21.28	22.00	
		1	2	21.11	21.89	21.30	22.00	
		1	5	21.78	21.64	21.16	22.00	
	16QAM	3	0	21.44	21.40	21.31	22.00	
		3	2	21.25	21.64	21.33	22.00	
		3	3	21.40	21.58	20.67	22.00	
		6	0	20.00	20.11	20.09	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Buriawiatii	Woddiation	TAD SIZE	TED GIIGGE	20415	20525	20635	rane ap	
		1	0	22.06	22.32	22.38	23.50	
		1	7	22.05	23.37	22.28	23.50	
	QPSK	1	14	22.08	23.31	22.29	23.50	
		8	0	21.32	21.24	21.21	23.00	
		8	4	21.33	21.40	21.18	23.00	
		8	7	21.24	21.45	21.17	23.00	
3MHz		15	0	21.27	21.33	21.14	23.00	
311112		1	0	21.46	21.49	21.31	22.00	
		1	7	21.56	21.40	21.09	22.00	
		1	14	21.73	21.66	21.63	22.00	
	16QAM	8	0	20.47	20.46	20.91	22.00	
		8	4	20.40	20.25	20.42	22.00	
		8	7	20.40	20.52	20.54	22.00	
		15	0	20.43	20.87	20.12	22.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
		. 12 0120	. 12 011001	20425	20525	20625	o ap	
		1	0	22.18	22.45	22.52	23.50	
		1	13	22.28	22.58	22.40	23.50	
5MHz	QPSK	1	24	22.24	22.48	22.63	23.50	
JIII 12	QI OIL	12	0	21.38	21.15	21.18	23.00	
		12	6	21.26	21.30	21.24	23.00	
		12	13	21.21	21.36	21.20	23.00	



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				_			
		25	0	21.26	21.46	21.34	23.00
		1	0	20.89	21.60	20.39	22.00
		1	13	20.93	21.82	20.38	22.00
		1	24	21.63	21.66	20.36	22.00
	16QAM	12	0	20.51	20.46	20.43	22.00
		12	6	20.05	20.40	20.54	22.00
		12	13	20.26	20.46	20.52	22.00
		25	0	20.10	20.28	20.58	22.00
Donalis i altia	Madulation	DD ei-e	DD a#aat	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	20450	20525	20600	Tune up
		1	0	22.12	22.47	22.30	23.00
		1	25	22.09	22.97	22.35	23.00
		1	49	22.05	22.56	22.49	23.00
	QPSK	25	0	21.29	21.31	21.43	22.00
		25	13	21.30	21.42	21.43	22.00
		25	25	21.26	20.82	21.19	22.00
400011-		50	0	21.40	21.51	21.25	22.00
10MHz		1	0	21.51	21.78	21.73	22.00
		1	25	21.94	21.69	21.84	22.00
		1	49	21.61	21.94	21.89	22.00
	16QAM	25	0	20.14	20.55	20.22	22.00
		25	13	20.14	20.49	20.36	22.00
		25	25	20.39	20.52	20.43	22.00
		50	0	20.27	20.42	20.50	22.00

	LTE FDD	Band 12		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
bandwidth	Modulation	RD SIZE	RD Ollset	23017	23095	23173	Turie up	
		1	0	22.72	22.77	22.85	23.50	
		1	2	22.60	22.73	22.82	23.50	
		1	5	22.48	22.86	22.69	23.50	
	QPSK	3	0	23.27	22.68	22.71	23.50	
		3	2	23.23	22.60	22.76	23.50	
		3	3	23.07	22.58	22.53	23.50	
1.4MHz		6	0	21.11	21.63	21.77	23.00	
1.4111112	1.4WITZ	1	0	20.76	21.87	21.64	22.50	
		1	2	21.65	22.13	21.86	22.50	
		1	5	22.02	21.81	21.55	22.50	
	16QAM	3	0	22.03	21.24	21.65	22.50	
		3	2	21.83	21.09	21.81	22.50	
		3	3	21.96	20.82	21.72	22.50	
		6	0	20.65	21.10	20.77	22.50	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tungun	
Danuwium	Modulation	RD Size	KD Ollset	23025	23095	23165	Tune up	
		1	0	22.96	23.47	23.03	23.50	
		1	7	23.08	22.90	22.59	23.50	
3MHz	QPSK	1	14	22.66	22.57	22.65	23.50	
		8	0	21.80	21.91	21.62	23.50	
		8	4	21.61	22.11	22.09	23.50	



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		8	7	21.94	22.02	22.00	23.50
		15	0	21.44	21.76	21.74	23.00
		1	0	21.72	22.08	21.49	22.50
		1	7	22.05	22.08	21.87	22.50
		1	14	22.44	21.85	22.08	22.50
	16QAM	8	0	21.06	20.66	20.96	22.50
		8	4	21.10	20.99	20.98	22.50
		8	7	21.01	20.99	21.04	22.50
		15	0	20.91	21.01	21.03	22.50
Dan du dala	Madulatian	DD size	DD -#+	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	23035	23095	23155	Tune up
		1	0	22.55	23.07	23.03	23.50
		1	13	21.50	22.82	23.14	23.50
		1	24	22.66	22.94	22.69	23.50
	QPSK	12	0	21.80	22.44	21.71	23.50
		12	6	21.93	21.79	21.67	23.50
		12	13	21.86	22.37	22.25	23.50
5MHz		25	0	21.96	21.71	21.73	23.00
SIVITIZ		1	0	21.02	22.43	22.00	22.50
		1	13	22.45	22.00	22.47	22.50
		1	24	22.14	21.75	21.63	22.50
	16QAM	12	0	21.01	20.74	20.99	22.50
		12	6	20.94	21.09	20.85	22.50
		12	13	20.85	20.84	20.97	22.50
		25	0	20.99	21.24	21.14	22.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up
Danawidin	Iviodulation	IND SIZE	IND Ollset	23060	23095	23130	Tune up
		1	0	22.84	22.90	22.21	23.50
		1	25	21.90	22.79	22.87	23.50
		1	49	23.11	22.90	22.90	23.50
	QPSK	25	0	22.16	21.94	21.82	23.50
		25	13	23.23	22.04	22.42	23.50
		25	25	22.36	22.27	22.06	23.50
10MHz		50	0	22.49	22.10	22.18	23.00
10111112		1	0	21.87	22.34	20.78	22.50
		1	25	22.38	22.08	21.74	22.50
		1	49	21.14	22.43	22.09	22.50
	16QAM	25	0	20.85	21.12	21.33	22.50
		25	13	20.90	21.32	21.04	22.50
		25	25	20.91	21.08	21.04	22.50
		50	0	20.89	20.91	20.96	22.50

	LTE FDD Band 17				Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up		
Danawiath	Modulation	KD SIZE	ND Ollset	23755	23790	23825	Turie up		
		1	0	22.54	22.41	22.61	23.50		
5MHz	QPSK	1	13	23.44	23.18	22.61	23.50		
SIVITIZ	QFSN	1	24	22.37	22.61	22.46	23.50		
		12	0	22.07	21.57	21.83	23.50		



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				J			
		12	6	22.57	21.49	21.97	23.00
		12	13	22.33	21.60	21.84	23.00
		25	0	21.68	21.53	21.72	23.00
		1	0	21.97	21.40	22.08	22.50
		1	13	21.61	21.86	21.24	22.50
		1	24	21.32	21.87	21.54	22.50
	16QAM	12	0	20.50	20.95	20.64	22.50
		12	6	20.76	20.54	20.91	22.50
		12	13	20.99	20.99	20.87	22.50
		25	0	20.79	21.06	21.17	22.50
Dan duvidéla	Madulation	DD size	DD 2#224	Channel	Channel	Channel	T
Bandwidth	Modulation	RB size	RB offset	23780	23790	23800	Tune up
		1	0	21.92	22.97	22.11	23.00
		1	25	22.38	22.85	22.49	23.00
		1	49	22.50	22.87	22.66	23.00
	QPSK	25	0	21.61	22.03	21.23	23.00
		25	13	21.25	22.27	21.10	23.00
		25	25	21.23	22.25	21.71	23.00
10MHz		50	0	21.12	22.20	21.12	23.00
TUIVITZ		1	0	22.28	22.24	22.01	22.50
		1	25	21.11	21.39	21.77	22.50
		1	49	21.81	21.84	21.46	22.50
	16QAM	25	0	21.31	20.96	20.84	22.50
		25	13	21.08	20.86	21.03	22.50
		25	25	20.64	20.81	21.13	22.50
		50	0	20.94	20.85	20.91	22.50

	LTE B	and 66		Conducted Power(dBm)				
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tung up	
bandwidth	Modulation	RD SIZE	RD Ollset	131979	132322	132665	Tune up	
		1	0	18.93	18.28	18.41	19.00	
		1	2	18.80	18.17	17.95	19.00	
		1	5	18.82	18.22	17.93	19.00	
	QPSK	3	0	18.62	18.18	17.98	19.00	
1.4MHz		3	1	18.73	18.24	17.95	19.00	
		3	3	18.96	18.17	17.89	19.00	
		6	0	18.17	17.39	17.98	19.00	
1.411172		1	0	17.24	17.86	17.01	19.00	
	16QAM	1	2	17.18	18.07	17.30	19.00	
		1	5	17.63	17.79	17.12	19.00	
		3	0	17.91	17.76	17.04	19.00	
		3	1	17.27	17.33	17.14	19.00	
		3	3	17.34	17.78	17.75	19.00	
		6	0	17.53	18.25	17.02	19.00	
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tune up	
Danuwidin	Modulation	VD 2156	KD Ollset	131987	132322	132657	rune up	
		1	0	18.66	18.23	17.03	19.00	
3MHz	QPSK	1	7	18.55	18.16	17.10	19.00	
		1	14	18.57	18.22	17.15	19.00	



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				i agc.	75 01		
		8	0	17.77	18.17	17.67	19.00
		8	4	17.60	18.21	17.76	19.00
		8	7	17.53	18.18	17.76	19.00
		15	0	17.73	18.17	17.71	19.00
		1	0	17.44	18.02	17.42	19.00
		1	7	17.95	17.91	17.21	19.00
		1	14	17.85	17.58	17.53	19.00
	16QAM	8	0	17.30	16.77	17.33	18.50
		8	4	17.25	16.86	17.40	18.50
		8	7	17.20	16.64	17.37	18.50
		15	0	17.21	16.73	17.39	18.50
Pandwidth	Modulation	DP oizo	DP offeet	Channel	Channel	Channel	Tungun
Bandwidth	Modulation	RB size	RB offset	131997	132322	132647	Tune up
		1	0	18.67	18.54	17.16	19.00
		1	13	18.60	18.47	17.16	19.00
		1	24	18.47	18.32	17.17	19.00
	QPSK	12	0	17.71	18.21	17.21	19.00
		12	6	17.53	18.10	17.10	19.00
		12	13	17.64	18.07	17.12	19.00
		25	0	17.69	18.22	17.06	19.00
5MHz		1	0	17.21	17.85	17.08	19.00
		1	13	17.11	17.42	17.25	19.00
		1	24	17.28	17.30	17.29	19.00
	16QAM	12	0	17.21	16.65	17.12	18.50
		12	6	17.13	16.61	17.16	18.50
		12	13	17.05	16.59	17.33	18.50
		25	0	17.32	16.61	17.13	18.50
5			55 "	Channel	Channel	Channel	-
Bandwidth	Modulation	RB size	RB offset	132022	132322	132622	Tune up
		1	0	18.86	18.31	17.85	19.00
		1	25	18.50	18.27	17.95	19.00
		1	49	18.38	18.10	17.15	19.00
	QPSK	25	0	17.64	18.14	17.48	19.00
		25	13	17.50	18.23	17.18	19.00
		25	25	17.48	18.00	17.51	19.00
		50	0	17.43	18.18	17.75	19.00
10MHz		1	0	17.43	17.85	17.96	19.00
		1	25	17.54	17.70	17.86	19.00
		1	49	17.96	17.27	17.31	19.00
	16QAM	25	0	17.03	16.61	17.05	18.50
		25	13	16.96	16.62	17.03	18.50
		25	25	16.92	16.51	17.17	18.50
		50	0	17.03	16.68	17.20	18.50
				Channel	Channel	Channel	
Bandwidth	Modulation	RB size	RB offset	132047	132322	132597	Tune up
		1	0	18.60	18.34	17.12	19.00
		1	38	18.43	18.23	17.68	19.00
15MHz	QPSK	1	74	18.27	17.91	17.96	19.00
		36	0	17.45	18.12	17.76	19.00
		36	18	17.51	17.92	17.69	19.00



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				•			
		36	39	17.31	18.27	17.80	19.00
		75	0	17.37	17.78	17.60	19.00
		1	0	17.88	17.55	17.79	19.00
		1	38	17.92	17.54	17.86	19.00
		1	74	17.73	17.22	17.23	19.00
	16QAM	36	0	16.95	16.68	17.10	18.50
		36	18	16.89	16.59	17.15	18.50
		36	39	16.83	16.55	17.08	18.50
		75	0	17.00	16.63	17.10	18.50
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	Tunaun
bandwidth	Modulation	RD SIZE	RB ollset	132072	132322	132572	Tune up
		1	0	18.56	18.45	17.58	19.00
		1	50	18.32	18.33	17.88	19.00
		1	99	18.15	17.91	17.15	19.00
	QPSK	50	0	18.52	17.99	17.94	19.00
		50	25	18.11	17.61	17.77	19.00
		50	50	18.33	17.77	17.68	19.00
208411-		100	0	17.40	18.35	17.25	19.00
20MHz		1	0	17.59	18.03	17.17	19.00
		1	50	17.70	17.95	17.82	19.00
		1	99	17.35	18.13	17.63	19.00
	16QAM	50	0	17.51	16.70	17.42	18.50
	TOQAWI	50	25	17.55	16.67	17.18	18.50
		50	50	16.91	16.69	17.13	18.50
		100	0	16.85	16.65	17.35	18.50



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#### 8.1.2 Conducted Power of WIFI

			WIFI 2.4G		
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
	1	2412		14.90	15.50
802.11b	6	2437	1	14.77	15.50
	11	2462		14.11	15.50
	1	2412		15.13	15.50
802.11g	6	2437	6	15.34	15.50
	11	2462		14.63	15.50
	1	2412		14.84	15.50
802.11n HT20	6 2437	6.5	14.88	15.50	
	11	2462		14.47	15.50



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#### 8.2 Measurement of SAR Data

#### Note:

- The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B. 1)
- Per KDB447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-q or 10-q SAR for the mid-band or highest output power channel is:
  - ≤ 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is ≤ 100MHz.
  - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
  - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz.

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq$  1.2 W/kg, SAR test for the other 802.11 modes are not required.



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## 8.2.1 SAR Result of LTE Band 2

	LTE Band 2 SAR Test Record													
Test position	BW.	Test mode	Test ch./Freq.	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.(℃)		
	Next to the mouth Test data (Separate 10mm 1RB )													
Next to the mouth	20	QPSK 1_50	19100/1900	1:1	0.697	0.418	-0.08	20.28	20.50	1.052	0.733	22.2		
	Next to the mouth Test data (Separate 10mm 50%RB )													
Next to the mouth	20	QPSK 50_25	19100/1900	1:1	0.416	0.246	0.01	19.02	19.50	1.117	0.465	22.2		

				LT	E Band 2	SAR Tes	t Recor	d					
Test position	est position BW. Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 1-g SAR (W/kg) 10-g Conducted Power(dBm) Limit(dBm) Factor Scaled SAR (W/kg) factor (W/kg) (W/kg) factor (											Liquid Temp.(℃)	
	Extremity Test data (Separate 0mm 1RB)												
Back side	20	QPSK 1_50	19100/1900	1:1	1.530	0.832	-0.07	20.28	20.50	1.052	0.875	22.2	
	Extremity Test data (Separate 0mm 50%RB)												
Back side													



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## 8.2.2 SAR Result of LTE Band 4

			Ľ	TE Bar	nd 4 S	AR T	Test Re	ecord					
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SA (W/I 1-	kg) (\	SAR W/kg) 10-g	Power drift (dB)	Conducted Power (dBm)	Tune up Limit (dBm)	l d	Scale d SAR 1-g (W/kg)	Liquid Temp. (℃)
			Next to the	mouth <sup>-</sup>	Test c	data (	Separa	ate 10mi	m 1RB)				
Next to the mouth	20	QPSK 1_50	20300/1745	1:1	0.8	12 (	0.475	0.02	18.01	18.50	1.119	0.909	22.2
Next to the mouth- Repeated	20	QPSK 1_50	20300/1745	1:1	0.8	03 (	0.468	0.01	18.01	18.50	1.119	0.899	22.2
Next to the mouth	20	QPSK 1_0	20175/1732.5	1:1	0.7	58 (	0.449	0.05	17.79	18.50	1.178	0.893	22.2
Next to the mouth	20	QPSK 1_0	20050/1720	1:1	0.70	68 (	0.421	0.01	17.84	18.50	1.164	0.894	22.2
			Next to the m	outh Te	est da	ta (Se	eparate	e 10mm	50%RB)				
Next to the mouth	20	QPSK 50_0	20050/1720	1:1	0.6	71 (	0.418	0.03	16.82	17.50	1.169	0.785	22.2
	Next to the mouth Test data (Separate 10mm 100%RB)												
Next to the mouth	20	QPSK 100_0	20050/172	20	1:1	0.766	6 0.43	6 0.08	16.84	17.50	1.164	0.892	22.2

				LT	E Band 4	SAR Tes	t Recor	LTE Band 4 SAR Test Record													
rest position Bw. Test mode lest ch./Freq. Cycle (W/kg) 1-g (W/kg) Power(dBm) Limit(dBm) factor g (W/kg) Temp.											Liquid Temp.(℃)										
	Extremity Test data (Separate 0mm 1RB)																				
Back side	20	QPSK 1_50	20300/1745	1:1	1.740	0.969	-0.02	18.01	18.50	1.119	1.085	22.2									
	Extremity Test data (Separate 0mm 50%RB)																				
Back side																					

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)
Next to the mouth	20300/1745	0.812	0.803	1.011	N/A	N/A

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

<sup>4)</sup> Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg

<sup>5)</sup> 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. The repeated measurement results must be clearly identified in the SAR report.



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## 8.2.3 SAR Result of LTE Band 5

	LTE Band 5 SAR Test Record												
Test position BW. Test mode Test ch./Freq. Duty Cycle (W/kg) 1-g SAR (W/kg) 10-g Conducted Power(dBm) Limit(dBm) Scaled SAR 1-g (W/kg) factor (W/kg) Temp.(*C													
	Next to the mouth Test data (Separate 10mm 1RB )												
Next to the mouth	10	QPSK 1_25	20525/836.5	1:1	0.074	0.044	-0.06	22.97	23.00	1.007	0.075	22.6	
Next to the mouth Test data (Separate 10mm 50%RB)													
Next to the mouth	lext to the mouth 10 QPSK 25_13 20600/844 1:1 0.047 0.027 -0.13 21.43 22.00 1.140 0.054 22.6												

			LTE Band 5 SAR Test Record												
Test position	Test position BW. Test mode Test ch./Freq. Duty Cycle SAR (W/kg) 1-g SAR (W/kg) 10-g Conducted (dB) Conducted Power(dBm) Limit(dBm) Factor GW/kg) Temp.(Conducted Conducted Cond														
	Extremity Test data (Separate 0mm 1RB)														
Back side	10	QPSK 1_25	20525/836.5	1:1	0.310	0.147	0.15	22.97	23.00	1.007	0.148	22.6			
	Extremity Test data (Separate 0mm 50%RB)														
Back side															





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## 8.2.4 SAR Result of LTE Band 12

	LTE Band 12 SAR Test Record												
Test position BW. Test mode Test ch./Freq. Duty Cycle Cycle (W/kg) 1-g SAR (W/kg) 10-g Conducted (M/kg) Power(dBm) Tune up Scaled Factor (W/kg) factor (W/kg) Temp.(10-g) Tune up Scaled SAR 1-g (W/kg) factor (W/kg) Temp.(10-g) Tune up Scaled factor (W/kg)													
	Next to the mouth Test data (Separate 10mm 1RB)												
Next to the mouth	10	QPSK 1_49	23060/704	1:1	0.207	0.131	-0.01	23.11	23.50	1.094	0.226	22.6	
Next to the mouth Test data (Separate 10mm 50%RB)													
Next to the mouth	ext to the mouth 10 QPSK 25_13 23060/704 1:1 0.153 0.089 0.01 23.23 23.50 1.064 0.163 22.6												

				LTE	LTE Band 12 SAR Test Record												
Test position	Test position BW. Test mode Test ch./Freq. Duty Cycle (W/kg) 1-g SAR (W/kg) 10-g Conducted (dB) Tune up Limit(dBm) Scaled SAR 10-g (W/kg) February Temp																
	Extremity Test data (Separate 0mm 1RB)																
Back side	10	QPSK 1_49	23060/704	1:1	1.560	0.760	0.02	23.11	23.50	1.094	0.831	22.6					
	Extremity Test data (Separate 0mm 50%RB)																
Back side	10	QPSK 25_13	23060/704	1:1	1.210	0.558	0.01	23.23	23.50	1.064	0.594	22.6					





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## 8.2.5 SAR Result of LTE Band 17

	LTE Band 17 SAR Test Record												
Test position BW. Test mode Test ch./Freq. Duty Cycle													
	Next to the mouth Test data (Separate 10mm 1RB)												
Next to the mouth	10	QPSK 1_0	23790/710	1:1	0.193	0.114	-0.06	22.97	23.50	1.130	0.218	22.6	
Next to the mouth Test data (Separate 10mm 50%RB)													
Next to the mouth	lext to the mouth 10 QPSK 25_13 23790/710 1:1 0.183 0.115 -0.14 22.27 23.00 1.183 0.216 22.6												

	LTE Band 17 SAR Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)				Liquid Temp.(℃)
			E	xtremit	ty Test da	ta (Separ	ate 0mm	1RB)				
Back side	10	QPSK 1_0	23790/710	1:1	1.410	0.728	-0.02	22.97	23.50	1.130	0.822	22.6
	Extremity Test data (Separate 0mm 50%RB)											
Back side	10	QPSK 25_13	23790/710	1:1	1.400	0.676	0.07	22.27	23.00	1.183	0.800	22.6



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## 8.2.6 SAR Result of LTE Band 66

			LTE Ba	nd 66	SAR T	est Re	cord					
Test position	BW	Test mode	Test ch./Freq.	Duty Cycl e	SAR (W/kg ) 1-g	MIka		Conducted Power(dBm		d	Scale d SAR 1-g (W/kg)	remp.(°C
	Next to the mouth Test data (Separate 10mm 1RB )											
Next to the mouth	20	QPSK 1_0	132072/1720	1:1	0.992	0.582	-0.06	18.56	19.00	1.107	1.098	22.2
Next to the mouth- Repeated	20	QPSK 1_0	132072/1720	1:1	0.898	0.575	0.02	18.56	19.00	1.107	0.994	22.2
Next to the mouth	20	QPSK 1_0	132322/1745	1:1	0.965	0.545	-0.02	18.45	19.00	1.135	1.095	22.2
Next to the mouth	20	QPSK 1_50	132572/1770	1:1	0.689	0.386	0.19	17.88	19.00	1.294	0.892	22.2
		Next	to the mouth	Test d	ata (Se	parate	10mm	50%RB)				
Next to the mouth	20	QPSK 50_0	132072/1720	1:1	0.783	0.441	0.03	18.52	19.00	1.117	0.875	22.2
Next to the mouth	20	QPSK 50_0	132322/1745	1:1	0.672	0.378	-0.19	17.99	19.00	1.262	0.848	22.2
Next to the mouth	20	QPSK 50_0	132572/1770	1:1	0.522	0.293	0.06	17.94	19.00	1.276	0.666	22.2
	Next to the mouth Test data (Separate 10mm 100%RB )											
Next to the mouth	20	QPSK 100_0	132322/1745	1:1	0.656	0.369	0.05	18.35	19.00	1.161	0.762	22.2

	LTE Band 66 SAR Test Record											
Test position	BW.	Test mode	Test ch./Freq.	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 10- g (W/kg)	Liquid Temp.(℃)
			E	xtremit	ty Test da	ta (Separ	ate 0mm	1RB)				
Back side	20	QPSK 1_0	132072/1720	1:1	1.800	1.020	-0.02	18.56	19.00	1.107	1.129	22.2
	Extremity Test data (Separate 0mm 50%RB)											
Back side	20	QPSK 50_0	132072/1720	1:1	1.340	0.687	0.00	18.52	19.00	1.117	0.767	22.2

Test Position	Channel/ Frequency	Measured SAR	1 <sup>st</sup> Repeated	Ratio	2 <sup>nd</sup> Repeated	3 <sup>rd</sup> Repeated	
	(MHz)	(1g)	SAR (1g)		SAR (1g)	SAR (1g)	
Next to the mouth	132072/1720	0.992	0.898	1.105	N/A	N/A	

Note: 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.



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<sup>2)</sup> A second repeated measurement was preformed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).

<sup>3)</sup> A third repeated measurement was preformed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
 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. The repeated measurement results must be clearly identified in the SAR report.



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## 8.2.7 SAR Result of WIFI 2.4G

	Wi-Fi 2.4G SAR Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	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.(℃)
	Next to the mouth Test data (Separate 10mm)											
Next to the mouth	802.11b	1/2412	99.57%	1.004	0.365	0.213	-0.15	14.90	15.50	1.148	0.421	22.6

	Wi-Fi 2.4G SAR Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 10- g (W/kg)	Liquid Temp.(℃)
	Extremity Test data (Separate 0mm)											
Back side	802.11b	1/2412	99.57%	1.004	1.270	0.614	-0.16	14.90	15.50	1.148	0.708	22.6



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#### **Multiple Transmitter Evaluation** 8.3

## 8.3.1 Simultaneous SAR test evaluation

N	lo.	Simultaneous Tx Combination	Next to the mouth	Extremity
1		WWAN + WLAN 2.4GHz	Yes	Yes

## 8.3.2 Simultaneous Transmission SAR Summation Scenario

#### Next to the mouth:

		SARma	ax (W/kg) ↩	Summed SAR≓
Test p	osition⊲	WWAN ANT∉	WIFI 2.4G₽	Summed SAR
		1∉	2∉	1+2년
LTE B2₽	Next to the mouth⊲	0.733₽	0.421₽	1.154₽
LTE B443	Next to the mouth⊲	0.909₽	0.421₽	1.330₽
LTE B5¢3	Next to the mouth⊲	0.075↩	0.421₽	0.496₽
LTE B12₽	Next to the mouth⊲	0.226↩	0.421₽	0.647₽
LTE B17₽	Next to the mouth⊲	0.218₽	0.421₽	0.639₽
LTE B66₽	Next to the mouth⊲	1.098₽	0.421₽	1.519₽

#### **Extremity:**

		SARma	ax (W/kg) ₽	
Test p	osition <sup>(2)</sup>	WWAN ANT⊲	WIFI 2.4G∉	Summed SAR∉
		1⇔	<b>2</b> d	1+2년
LTE B2₽	Back side∉	0.875↩	0.708₽	1.583₽
LTE B443	Back side∉	1.085↩	0.708₽	1.793₽
LTE B5₽	Back side∉	0.148₽	0.708₽	0.856↩
LTE B12₽	Back side∉	0.831₽	0.708₽	1.539₽
LTE B17₽	Back side∉	0.822₽	0.708₽	1.530₽
LTE B66₽	Back side∉	1.129↩	0.708₽	1.837₽



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**Equipment list** 

	Test Platform	SPEAG DASY	Professional			
	Description	SAR Test Syste	m			
So	ftware Reference	cDASY8 V16.4.	0.5005			
			Hardware Ro	eference		
	Equipment	Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration
$\boxtimes$	Test Phantom	SPEAG	SAM Twin	SZ-WSR-A-027	NCR	NCR
$\boxtimes$	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2024/8/8	2025/8/7
$\boxtimes$	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-027	2024/7/17	2025/7/16
	Validation Kits	SPEAG	D750V3	SZ-WSR-M-032	2022/06/06	2025/06/05
$\boxtimes$	Validation Kits	SPEAG	D835V2	SZ-WSR-M-033	2022/11/02	2025/11/01
$\boxtimes$	Validation Kits	SPEAG	D1750V2	SZ-WSR-M-035	2022/06/17	2025/06/16
$\boxtimes$	Validation Kits	SPEAG	D1900V2	SZ-WSR-M-036	2022/11/2	2025/11/1
	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01
$\boxtimes$	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25
$\boxtimes$	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25
$\boxtimes$	RF Bi-Directional Coupler	Agilent	86205- 60001	SZ-WSR-A-004	NCR	NCR
	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2024/01/30	2025/01/29
	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR
$\boxtimes$	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR
	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2024/01/30	2025/01/29
$\boxtimes$	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2024/01/30	2025/01/29
$\boxtimes$	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2024/01/30	2025/01/29
$\boxtimes$	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR
$\boxtimes$	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29
$\boxtimes$	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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**Appendix A: Detailed System Check Results** 

**Appendix B: Detailed Test Results** 

**Appendix C: Calibration certificate** 

**Appendix D: Photographs** 

--- End of report ---



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