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FCC SAR TEST REPORT

Application No.: SEWM2207000107RG

Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.

Manufacturer:Lenovo PC HK Limited.Product Name:Portable Tablet Computer

Model No.(EUT): TB350FU
Trade Mark: Lenovo

FCC ID: O57TB350FU

Standards: FCC 47CFR §2.1093

Date of Receipt: 2022-07-06

Date of Test: 2022-07-11 to 2022-08-08

Date of Issue: 2022-08-18
Test Result: PASS *

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

Authorized Signature:

Panta Sun

Wireless Laboratory Manager

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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SEWM2207000107RG01	01	Original	2022-08-18



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TEST SUMMARY

Frequency Band	Test position	Max Report SAR1-g (W/kg)	SAR limit (W/kg)
WI-FI (2.4GHz)	Body	1.02	1.60
WI-FI (5GHz)	Body	1.19	1.60
BT Body		0.13	1.60
Maximum Simultaneous Transmission SAR (W/kg)		1.32	1.60

Reviewed by
Well Wei

Prepared by

Nick Hu

Nick Hu





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1 General Information

1.1 Details of Client

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer :	Scola Zou



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1.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

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CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

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Designation Number: CN1312.

Test Firm Registration Number: 717327





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1.4 General Description of EUT

Product Name:	Portable Tablet Com	Portable Tablet Computer			
Model No.(EUT):	TB350FU	TB350FU			
Trade Mark:	Lenovo	Lenovo			
Product Phase:	production unit				
Device Type:	portable device				
Exposure Category:	uncontrolled environ	ment / general population			
SN:	HVA4R1FZ				
FCC ID:	O57TB350FU				
Hardware Version:	TB350FU				
Software Version:	TB350FU_RF01_220	0729			
Antenna Type:	PIFA Antenna				
Device Operating Configurat					
Modulation Mode:	WIFI: DSSS, OFDM,	OFDMA; BT: GFSK, π/4DQPSK			
	Band	Tx (MHz)	Rx (MHz)		
	WIFI(2.4GHz)	2412-2462	2412-2462		
		5150-5250	5150-5250		
Frequency Bands:	WIFI(5GHz)	5250-5350	5250-5350		
	VVII 1(30112)	5470-5725	5470-5725		
		5725-5850	5725-5850		
	BT	2402-2480	2402-2480		
	Battery Model:	L20D2P32			
Battery #1 Information:	Nominal Voltage:		3.86V		
Battery #1 Information.	Rated capacity:	7500mAh min			
	Manufacture	ATL			
	Battery Model:	L20D2P32			
Battery #1 Information:	Nominal Voltage:	3.86V			
Dattery #1 Information.	Rated capacity:	7500mAh min			
	Manufacture	Sunwoda Electronic Co., Ltd.			



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1.5 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE Std 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 248227 D01 v02r02	802.11 Wi-Fi SAR
KDB 616217 D04 v01r02	SAR for laptop and tablets
KDB 447498 D01	General RF Exposure Guidance v06
KDB 447498 D03 v01	Supplement C Cross-Reference
KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Reporting
KDB 648474 D04	SAR Evaluation Considerations for Wireless Handsets

1.6 RF exposure limits

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

Notes:

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

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

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



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2 SAR Measurements System Configuration2.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

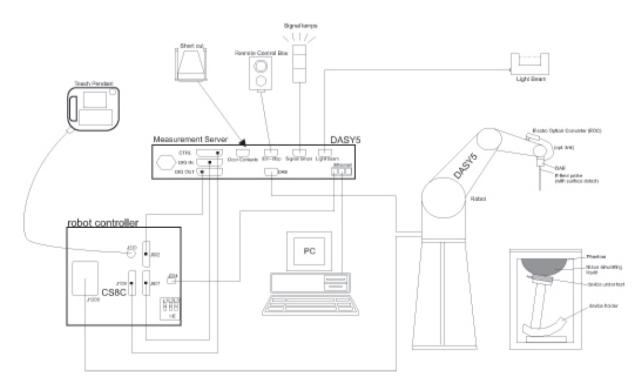
The DASY5 system for performing compliance tests consists of the following items:

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

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

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

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



F-1. SAR Measurement System Configuration



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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 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.

2.2 Isotropic E-field Probe 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 <u>calibration service</u> available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/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, EASY4/MRI



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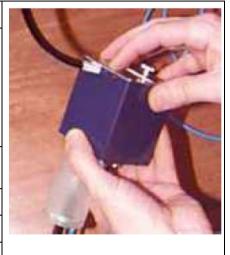


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2.3 Data Acquisition Electronics (DAE)

Model	DAE4
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)
Input Offset Voltage	< 5µV (with auto zero)
Input Bias Current	< 50 f A
Dimensions	60 x 60 x 68 mm



2.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 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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2.5 ELI Phantom

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



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

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



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2.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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2.7 Measurement procedure

2.7.1 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 30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

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

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





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			≤3 GHz	> 3 GHz			
Maximum distance from		•	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm			
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°			
			\leq 2 GHz: \leq 15 mm 3 - 4 GHz: \leq 12 2 - 3 GHz: \leq 12 mm 4 - 6 GHz: \leq 10				
Maximum area scan sp	atial resolu	tion: Δx_{Area} , Δy_{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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.				
Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*			
	uniform	grid: Δz _{Zoom} (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 _{Zoom} (1): between 1 st 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 _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$				
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm			

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Step 4: Power reference measurement (drift)

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



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^{*} When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



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2.7.2 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.

2.7.3 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 factorDiode compression pointDcpi

Device parameters: - Frequency f

- Crest factor cf

Media parameters: - Conductivity ϵ

- Density ρ

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

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

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

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

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)



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

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

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 (i = x, y, z)

Normi = sensor sensitivity of channel I

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

ConvF = sensitivity enhancement in solution

aij = 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):

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

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

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

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

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.

$$P_{pwe} = E_{tot}^2 \frac{2}{3770} \,_{Or} \, P_{pwe} = H_{tot}^2 \cdot 37.7$$

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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3 Description of Test Position

3.1 The Body Test Position

The overall diagonal dimension of the display section of a tablet is > 20 cm, Per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. SAR evaluation for the front surface of tablet display screens are generally not necessary. The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.



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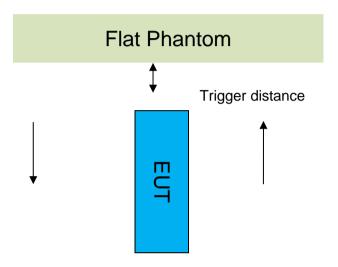
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4 Proximity Sensor Triggering Test

Proximity sensor triggering distances:

The Proximity sensor triggering was applied to WLAN2.4Ghz/WLAN 5GHz. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed.



Proximity Sensor Triggering Distance(mm)									
Position	Back side	Top side							
Minimum	13mm	13mm							
Required SAR Test	9mm	9mm							

Note:

SAR tests with proximity sensor power reduction are only required for the sides of frequency bands in the table above. For the other sides or other frequency bands of the device, SAR is still tested at the maximum power level with sensor off.



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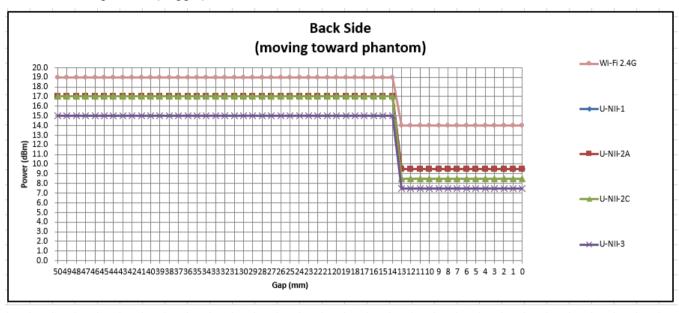
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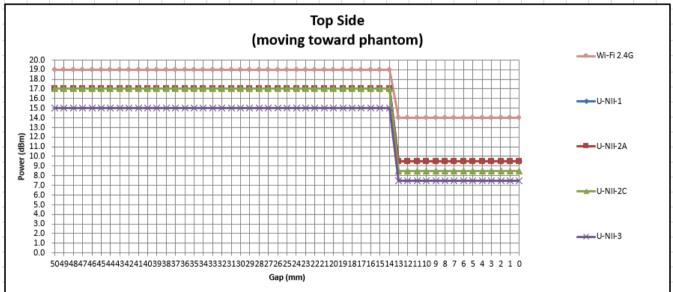


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DUT Moving Toward(Trigger)the Phantom







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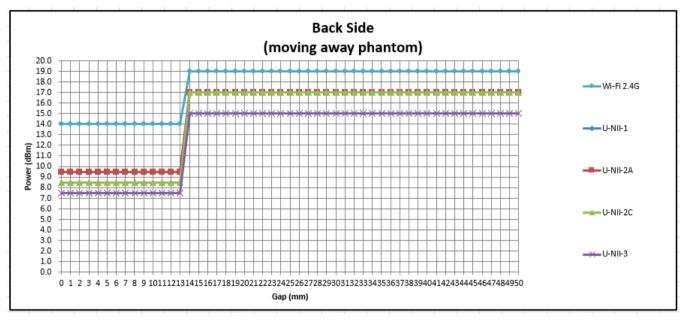
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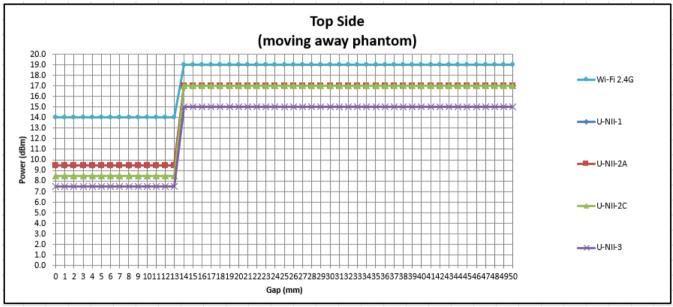


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DUT Moving Away(Release) from the Phantom







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Proximity sensor coverage

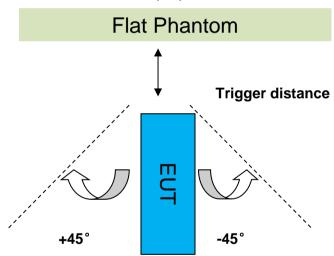
If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and "along the direction of maximum antenna and sensor offset".

The proximity sensor and main antenna use same metallic electrode, so there is no spatial offset.

Device tilt angle influences to proximity sensor triggering

The influence of device tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at 16mm separation.

Rotating the tablet around the edge next to the phantom in $\leq 10^{\circ}$ increments until the tablet is $\pm 45^{\circ}$ from the vertical position at 0°, and the maximum output power remains in the reduced mode.



Summary of Tablet Tilt Angle Influence to Proximity Sensor Triggering for Top Side													
	Minimum trigger distance at Power Reduction Status												
Band	Minimum trigger distance												
		which power reduction was											
(MHz)	Per KDB616217§6.2	maintained over ±45°	-45°	-35°	-25°	-15°	-5°	0°	5°	15°	25°	35°	45°
WLAN2.4GHz	Top side:13mm	Top side:13mm	on	on	on	on	on	on	on	on	on	on	on
WLAN5GHz	Top side:13mm	Top side:13mm	on	on	on	on	on	on	on	on	on	on	on

For front/back/bottom side, the worst trigger distance of proximity sensor is 16mm, thus we test back side SAR in 15mm without power reduction and 0mm with power reduction.



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5 SAR System Verification Procedure

5.1 Tissue Simulate Liquid

5.1.1 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) 2450								
(% by weight)									
Tissue Type		Head							
Water		55.00							
Salt (NaCl)		0.2							
Sucrose		0							
HEC		0							
Bactericide		0							
Tween		44.80							
Salt: 99+% Pure Sod	ium Chloride	Sucrose: 98+% Pure Sucrose							
Water: De-ionized, 1	6 MΩ+ resistivity	HEC: Hydroxyethyl Cellulose							
Twoon: Polyovyothy	lone (20) corbitan manalaurata								

Tween: Polyoxyethylene (20) sorbitan monolaurate

HSL5GHz is composed of the following ingredients:

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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5.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ρ) 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.

Tissue Type	Measured Frequency	Target Tis	sue (±5%)	Measure	d Tissue		ation 1 ±5%)	Liquid Temp.	Test Date
	(MHz)	ε _r	σ(S/m)	ε _r	σ(S/m)	ε _r	σ(S/m)	(℃)	
2450 Head	2450	39.20	1.80	38.022	1.822	-3.01%	1.22%	22.6	2022/7/11
5250 Head	5250	35.90	4.66	35.508	4.719	-1.09%	1.27%	22.3	2022/7/15
5600 Head	5600	35.50	5.07	34.556	5.106	-2.66%	0.71%	22.3	2022/7/16
5750 Head	5750	35.40	5.22	34.193	5.277	-3.41%	1.09%	22.3	2022/7/17
2450 Head	2450	39.20	1.80	40.616	1.768	3.61%	-1.78%	22.8	2022/8/8
5600 Head	5600	35.50	5.07	35.638	5.116	0.39%	0.91%	22.5	2022/8/8

Table 2: Measurement result of Tissue electric parameters



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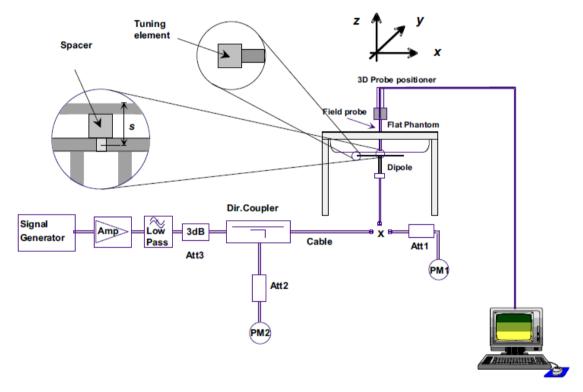


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5.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-3. 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-3. the microwave circuit arrangement used for SAR system check



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5.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, 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 10% of calibrated measurement;
 - d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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5.2.2 Summary System Validation Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	Measured SAR (normalized to 1W)		Target SAR (normalized to 1W)				Liquid Temp.	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10- g(W/kg)	(℃)	
D2450V2	Head	12.70	5.87	50.80	23.48	52.20	24.50	-2.68%	-4.16%	22.6	2022/7/11
D2450V2	Head	12.70	6.03	50.80	24.12	52.20	24.50	-2.68%	-1.55%	22.8	2022/8/8
Validation Kit		Measured SAR 100mW	SAR	Measured SAR (normalized to 1W)		Target SAR (normalized to 1W)		Deviation (Within ±10%)		Liquid Temp.	Test Date
	1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1-g(W/kg)	10- g(W/kg)	(℃)		
	Head(5.25GHz)	7.12	2.00	71.20	20.00	78.00	21.80	-8.72%	-8.26%	22.3	2022/7/15
D5GHzV2	Head(5.6GHz)	7.84	2.21	78.40	22.10	79.90	22.50	-1.88%	-1.78%	22.3	2022/7/16
	Head(5.75GHz)	8.04	2.29	80.40	22.90	76.40	21.20	5.24%	8.02%	22.3	2022/7/17
	Head(5.6GHz)	7.93	2.24	79.30	22.40	79.90	22.50	-0.75%	-0.44%	22.5	2022/8/8

Table 3: SAR System Check Result

5.2.3 Detailed System Check Results

Please see the Appendix A





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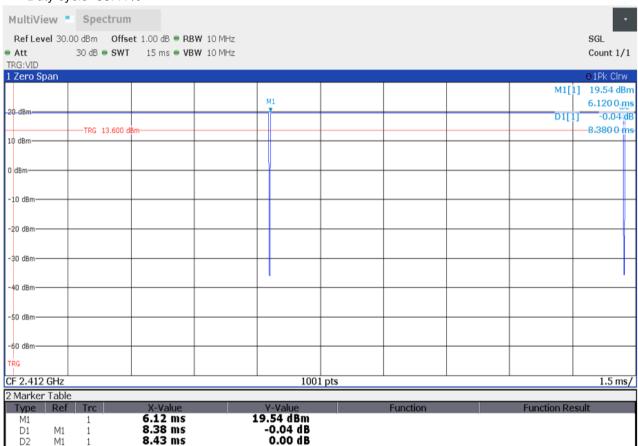
6 Test results and Measurement Data

6.1 Operation Configurations

6.1.1 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.

2.4G WIFI Duty cycle=99.41%





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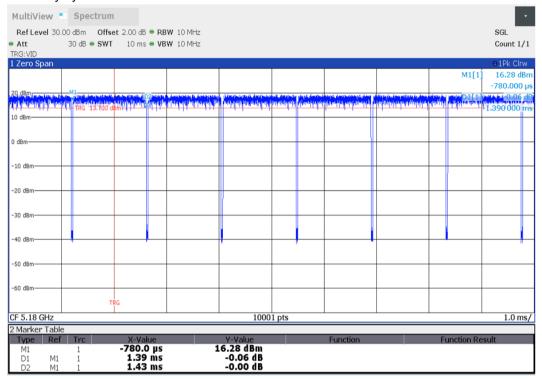
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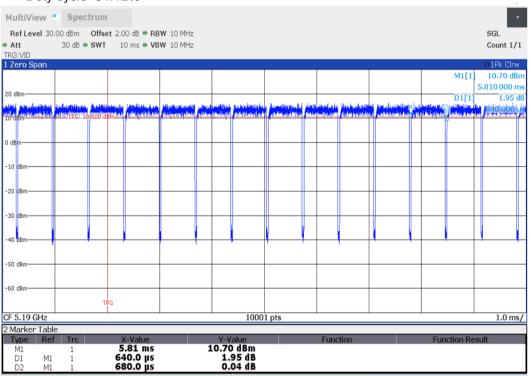
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5G WIFI 802.11a Duty cycle=97.2%



5G WIFI 802.11n-HT40 Duty cycle=94.12%





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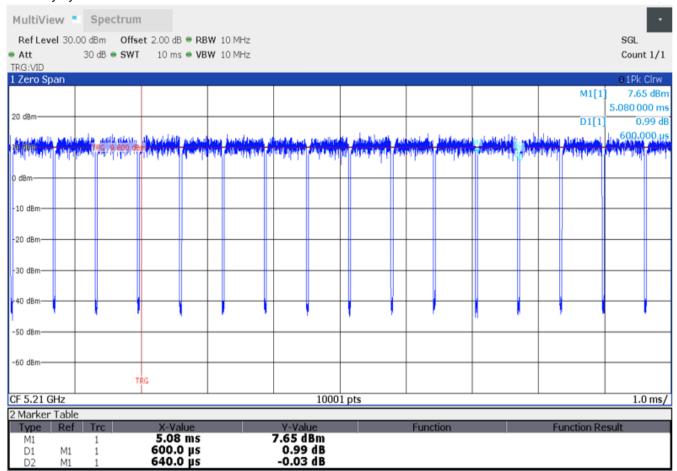
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5G WIFI 802.11ac-HT80 Duty cycle=93.75%





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6.1.1.1 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.

6.1.1.2 Initial Test Configuration Procedures

An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. For configurations with the same specified or measured maximum output power, additional transmission mode and test channel selection procedures are required. SAR test reduction for subsequent highest output test channels is determined according to *reported* SAR of the initial test configuration. For next to the ear, hotspot mode and UMC mini-tablet exposure configurations where multiple test positions are required, the initial test position procedure is applied to minimize the number of test positions required for SAR measurement using the initial test configuration transmission mode. For fixed exposure conditions that do not have multiple SAR test positions, SAR is measured in the transmission mode determined by the initial test configuration.

When the *reported* SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for subsequent next highest measured output power channel(s) in the initial test configuration until *reported* SAR is ≤ 1.2 W/kg or all required channels are tested.

6.1.1.3 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.

 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.



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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.
 - b) 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"

6.1.1.4 2.4 GHz 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 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/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.



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6.1.1.5 WiFi 5G SAR Test Procedures

6.1.1.5.1 U-NII-1 and U-NII-2A Bands

For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:

- When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest *reported* SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

6.1.1.5.2 U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 - 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 - 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



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6.1.1.5.3 OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration and subsequent test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - The channel closest to mid-band frequency is selected for SAR measurement.
 - For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

6.1.1.5.4 SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. 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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6.1.2 DUT Antenna Locations(Back Veiw)

The DUT Antenna Locations (Back View) can refer to Appendix D.

Note:

Per KDB 616217, the diagonal length is > 200mm, the device is considered a "tablet" device and needed to test 0mm 1-g body SAR.



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6.1.3 EUT side for SAR Testing

Stand-alone SAR test evaluation

1) Per FCC KDB 447498D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
- a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)-(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm) \cdot 10] mW at > 1500 MHz and \leq 6 GHz

SAR exclusion calculation

	Wireless Interface	ВТ	2.4GHz WLAN ANT 1	5GHz WLAN ANT 1
Exposure Position	Calculated Frequency	2480MHz	2462MHz	5825MHz
	Maximum power (dBm)	10	19	17
	Maximum rated power(mW)	10.0	79.0	50.0
	Separation distance(mm)	5.0	5.0	5.0
Back Side	exclusion threshold	3.2	24.8	24.1
	Testing required?	Yes	Yes	Yes
	Separation distance(mm)	139.5	139.5	139.5
Left Side	exclusion threshold	990.0	991.0	957.0
	Testing required?	No	No	No
	Separation distance(mm)	81.4	81.4	81.4
Right Side	exclusion threshold	409.0	410.0	376.0
	Testing required?	No	No	No
	Separation distance(mm)	5.0	5.0	5.0
Top Side	exclusion threshold	3.2	24.8	24.1
	Testing required?	Yes	Yes	Yes
	Separation distance(mm)	160.9	160.9	160.9
Bottom Side	exclusion threshold	1204.0	1205.0	1171.0
	Testing required?	No	No	No



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According to the table above, the standalone test configurations required for this device are as below:

Test configurations	WiFi 2.4G	WiFi 5G	BT
Back side	Yes	Yes	Yes
Left side	No	No	No
Right side	No	No	No
Top side	Yes	Yes	Yes
Bottom side	No	No	No

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

1) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]• [$\sqrt{f(GHz)/x}$] W/kg for test separation distances \leq 50 mm, where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

2) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distance is > 50 mm.

Rond	Band Exposure f		Pmax	Pmax	Test separation distance					Estimated SAR(W/Kg)						
Danu	Condition (GHz	Condition (GHz	Condition	(GHz)	(dBm)	(mw)	Back Side	Left side	Right side	Top side	Bottom side	Back Side	Left side	Right side	Top side	Bottom side
WLAN2.4G	Body 0mm	2.472	19	79	5	139.5	81.4	5	160.9	Measure	0.40	0.40	Measure	0.40		
WLAN5.2G	Body 0mm	5.240	17	50	5	139.5	81.4	5	160.9	Measure	0.40	0.40	Measure	0.40		
WLAN5.3G	Body 0mm	5.320	17	50	5	139.5	81.4	5	160.9	Measure	0.40	0.40	Measure	0.40		
WLAN5.5G	Body 0mm	5.720	17	50	5	139.5	81.4	5	160.9	Measure	0.40	0.40	Measure	0.40		
WLAN5.8G	Body 0mm	5.805	15	32	5	139.5	81.4	5	160.9	Measure	0.40	0.40	Measure	0.40		
ВТ	Body 0mm	2.480	10	10	5	139.5	81.4	5	160.9	Measure	Measure	Measure	Measure	Measure		

Table 4: Estimated SAR calculation for WiFi and BT Note:

1) * - maximum possible output power declared by manufacturer



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6.2 Measurement of RF conducted Power

6.2.1 **Conducted Power of WIFI and BT**

		WIFI 2.4G	Hz Sensor Off			
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	1	2412		17.81	19.00	Yes
802.11b	6	2437	1	18.15	19.00	Yes
	11	2462		17.22	19.00	Yes
	1	2412		16.36	18.00	No
802.11g	6	2437	6	16.89	18.00	No
	11g 6 11	2462		16.43	18.00	No
	1	2412		14.94	16.00	No
802.11n HT20	6	2437	6.5	15.50	16.00	No
0	11	2462		14.76	16.00	No
	1	2412		14.49	16.00	No
802.11ax HE20	6	2437	MCS0	15.30	16.00	No
	11	2462		14.67	16.00	No

		WIFI 2.4G	Hz Sensor On			
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	1	2412		12.93	14.00	Yes
802.11b	6	2437	1	13.26	14.00	Yes
	11 1	2462		12.39	14.00	Yes
	1	2412		12.43	14.00	No
802.11g	6	2437	6	12.87	14.00	No
	6 11	2462	1	12.47	14.00	No
	1	2412		13.00	14.00	No
802.11n HT20	6	2437	6.5	13.12	14.00	No
0	11	2462		12.52	14.00	No
	1	2412		12.94	14.00	No
802.11ax HE20	6	2437	MCS0	13.05	14.00	No
	11	2462		12.51	14.00	No



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			WIFI 5GHz Sens	sor Off			
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		16.15	17.00	No
	11 8111 4	40	5200		16.23	17.00	No
	U-NII-1	44	5220		16.70	17.00	No
		48	5240		16.66	17.00	No
		52	5260		16.86	17.00	Yes
	LLAULOA	56	5280		16.75	17.00	Yes
	U-NII-2A	60	5300		16.51	17.00	No
		64	5320		16.79	17.00	Yes
802.11a		100	5500	6	16.87	17.00	Yes
		116	5580		16.71	17.00	Yes
	U-NII-2C	124	5620		16.61	17.00	No
		132	5660		16.55	17.00	No
		144	5720		16.44	17.00	Yes
Ī		149	5745		14.17	15.00	No
	U-NII-3	157	5785		14.20	15.00	No
	0 1411 0	165	5825	_	14.13	15.00	No
		103	3023	Data		15.00	SAR
5GHz	mode	Channel	Frequency(MHz)	Rate(Mbps)	Average Power (dBm)	Tune up	Test
		36	5180		14.95	16.00	No
	U-NII-1	40	5200		15.18	16.00	No
		44	5220		15.39	16.00	No
		48	5240		15.59	16.00	No
	U-NII-2A	52	5260		15.40	16.00	No
		56	5280		15.38	16.00	No
		60	5300	MCS0	15.33	16.00	No
802.11n-HT20		64	5320		15.44	16.00	No
002.1111-11120		100	5500	WICSO	15.39	16.00	No
		116	5580		15.45	16.00	No
	U-NII-2C	124	5620	- -	15.52	16.00	No
		132	5660		15.39	16.00	No
		144	5720		15.37	16.00	No
		149	5745		14.03	15.00	No
	U-NII-3	157	5785		13.86	15.00	No
		165	5825		13.92	15.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	11 NII 4	38	5190		14.36	16.00	No
	U-NII-1	46	5230		14.71	16.00	No
Ī	II NIII 2A	54	5270		14.76	16.00	No
	U-NII-2A	62	5310		14.85	16.00	No
902 145 LIT40		102	5510	MCCC	14.97	16.00	No
802.11n-HT40	II NIII OC	110	5550	MCS0	14.91	16.00	No
	U-NII-2C	126	5630		14.68	16.00	No
		134	5670		14.82	16.00	No
Ī	LI NIII O	151	5755		13.63	15.00	No
	U-NII-3	159	5795		13.66	15.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11ac-20	U-NII-1	36	5180	MCS0	13.86	15.00	No



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							•
		40	5200		14.02	15.00	No
		44	5220		14.30	15.00	No
		48	5240		14.33	15.00	No
		52	5260		14.48	15.00	No
	U-NII-2A	56	5280		14.51	15.00	No
	0-IIII-2A	60	5300		14.35	15.00	No
		64	5320		14.42	15.00	No
		100	5500		14.55	15.00	No
		116	5580		14.34	15.00	No
	U-NII-2C	124	5620		14.26	15.00	No
		132	5660		14.41	15.00	No
		144	5720		14.21	15.00	No
		149	5745		14.55	15.00	No
	U-NII-3	157	5785		14.55	15.00	No
		165	5825		14.66	15.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	11 800 4	38	5190		12.87	14.50	No
	U-NII-1	46	5230		13.16	14.50	No
	U-NII-2A	54	5270		13.21	14.50	No
	U-MII-ZA	62	5310		13.31	14.50	No
802.11ac-40		102	5510	MCS0	13.41	14.50	No
002.11ac-40	U-NII-2C	110	5550	WICOU	13.37	14.50	No
		126	5630		13.08	14.50	No
		134	5670		13.14	14.50	No
	U-NII-3	151	5755		13.33	14.50	No
		159	5795		13.17	14.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	42	5210		13.09	14.50	No
	U-NII-2A	58	5290		13.31	14.50	No
802.11ac-		106	5530	MCS0	13.59	14.50	No
80	U-NII-2C	122	5610		13.33	14.50	No
	LLAULO	138	5690		13.32	14.50	No
	U-NII-3	155	5775	Data	13.55	14.50	Yes SAR
5GHz	mode	Channel	Frequency(MHz)	Rate(Mbps)	Average Power (dBm)	Tune up	Test
		36	5180		12.61	14.00	No
		40	5200		12.75	14.00	No
	U-NII-1	44	5220		12.95	14.00	No
		48	5240		13.03	14.00	No
		52	5260		13.08	14.00	No
	11 817 64	56	5280	1	13.13	14.00	No
802.11ax-20	U-NII-2A	60	5300	MCS0	13.03	14.00	No
		64	5320	1	13.14	14.00	No
		100	5500	1	13.36	14.00	No
		116	5580	1	13.06	14.00	No
	U-NII-2C	124	5620	1	13.05	14.00	No
		•	i .	⊣			
		132	5660		13.17	14.00	No
		132 144	5660 5720	<u> </u> -	13.17 12.74	14.00 14.00	No No



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		149	5745		13.31	14.00	No
	U-NII-3	157	5785		13.39	14.00	No
		165	5825		13.12	14.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		12.78	14.00	No
	U-INII- I	46	5230		13.08	14.00	No
	11 111 04	54	5270		13.13	14.00	No
	U-NII-2A	62	5310		13.16	14.00	No
802.11ax-40		102	5510	MCCO	13.43	14.00	No
802.11ax-40	U-NII-2C	110	5550	MCS0	13.26	14.00	No
	U-NII-2C	126	5630		13.04	14.00	No
		134	5670		13.21	14.00	No
	U-NII-3	151	5755		13.45	14.00	No
	U-INII-3	159	5795		12.81	14.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	42	5210		12.43	14.00	No
	U-NII-2A	58	5290		12.66	14.00	No
802.11ax-		106	5530	MCS0	12.81	14.00	No
80	U-NII-2C	122	5610	IVICSU	12.54	14.00	No
		138	5690		12.53	14.00	No
	U-NII-3	155	5775		12.84	14.00	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11ax-	U-NII-2A	50	5250	MCS0	10.11	11.50	No
160	U-NII-2C	114	5570	IVICSU	10.23	11.50	No

			WIFI 5GHz Sens	or On			
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		8.79	9.50	No
	LLAULA	40	5200		8.78	9.50	No
	U-NII-1	44	5220		9.28	9.50	No
		48	5240		9.20	9.50	No
		52	5260		9.46	9.50	No
	U-NII-2A	56	5280	6	9.36	9.50	No
		60	5300		9.10	9.50	No
802.11a		64	5320		9.39	9.50	No
		100	5500		8.46	8.50	No
		116	5580		8.27	8.50	No
	U-NII-2C	124	5620		8.21	8.50	No
		132	5660		8.14	8.50	No
		144	5720		7.92	8.50	No
	U-NII-3	149	5745		6.76	7.50	No
	0-1111-3	157	5785		6.81	7.50	No



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		165	5825	1	6.60	7.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		8.52	9.50	No
	U-NII-1	40	5200		8.69	9.50	No
	0-1111-1	44	5220		8.87	9.50	No
		48	5240		9.11	9.50	No
		52	5260		9.01	9.50	No
	U-NII-2A	56	5280		8.95	9.50	No
	U-MII-ZA	60	5300		8.95	9.50	No
000 44= LIT00		64	5320	MCCO	8.95	9.50	No
802.11n-HT20		100	5500	MCS0	7.94	8.50	No
		116	5580		8.05	8.50	No
	U-NII-2C	124	5620		8.12	8.50	No
		132	5660		7.86	8.50	No
		144	5720		7.83	8.50	No
		149	5745		6.67	7.50	No
	U-NII-3	157	5785		6.42	7.50	No
	5 5	165	5825		6.41	7.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		38	5190		7.93	9.50	No
	U-NII-1	46	5230		8.33	9.50	No
Ī		54	5270		8.24	9.50	No
	U-NII-2A	62	5310		8.38	9.50	No
Ī		102	5510		7.51	8.50	No
802.11n-HT40	U-NII-2C	110	5550	MCS0	7.51	8.50	No
		126	5630		7.15	8.50	No
		134	5670		7.44	8.50	No
		142	5710		7.35	8.50	No
Ī		151	5755		6.10	7.50	Yes
	U-NII-3	159	5795		6.16	7.50	Yes
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		8.49	9.50	No
	11 800 4	40	5200		8.61	9.50	No
	U-NII-1	44	5220		8.84	9.50	No
		48	5240		8.85	9.50	No
		52	5260		8.97	9.50	No
	11.500.65	56	5280	1	9.06	9.50	No
	U-NII-2A	60	5300	1	8.98	9.50	No
		64	5320	1	9.07	9.50	No
802.11ac-20		100	5500	MCS0	8.17	8.50	No
		116	5580	1	7.91	8.50	No
	U-NII-2C	124	5620	1	7.85	8.50	No
	U-NII-2C		0020	1	7.87	8.50	No
		132	5660	_ [
		132	5660 5720	-			
		144	5720	-	7.79	8.50	No
	U-NII-3			-			



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5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	38	5190		7.99	9.50	No
	OHMIH	46	5230		8.31	9.50	No
	U-NII-2A	54	5270		8.28	9.50	No
	O WII ZA	62	5310		8.28	9.50	No
		102	5510	_	7.39	8.50	No
802.11ac-40	U-NII-2C	110 126	5550 5630	MCS0	7.51 7.12	8.50 8.50	No No
	U-INII-2C	134	5670	-	7.12	8.50	No
		142	5710	1	7.10	8.50	No
		151	5755	1	6.30	7.50	No
	U-NII-3	159	5795	-	6.19	7.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	42	5210	(8.06	9.50	No
	U-NII-2A	58	5290	1	8.36	9.50	Yes
802.11ac-		106	5530	MCS0	7.57	8.50	Yes
80	U-NII-2C	122	5610	IVICSU	7.39	8.50	Yes
		138	5690		7.30	8.50	Yes
	U-NII-3	155	5775		6.68	7.50	Yes
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
		36	5180		8.07	9.50	No
	U-NII-1	40	5200		8.33	9.50	No
	0 Mil 1	44	5220		8.56	9.50	No
		48	5240		8.54	9.50	No
		52	5260		8.67	9.50	No
	11 111 04	56	5280		8.75	9.50	No
	U-NII-2A	60	5300]	8.67	9.50	No
000 44 00		64	5320		8.68	9.50	No
802.11ax-20		100	5500	MCS0	7.93	8.50	No
		116	5580		7.54	8.50	No
	U-NII-2C	124	5620	-	7.55	8.50	No
		132	5660		7.78	8.50	No
		144	5720	1	7.37	8.50	No
		149	5745	-	6.80	7.50	No
	U-NII-3	157	5785	-	6.91	7.50	No
		165	5825	=	6.72	7.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	11 822 4	38	5190		8.38	9.50	No
	U-NII-1	46	5230	1	8.67	9.50	No
	11.500.63	54	5270	1	8.58	9.50	No
802.11ax-40	U-NII-2A	62	5310	MCS0	8.75	9.50	No
		102	5510	1	7.95	8.50	No
	U-NII-2C	110	5550	1	7.89	8.50	No
		126	5630	1	7.64	8.50	No



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İ	I	٠	l		l -		l
		134	5670		7.68	8.50	No
		142	5710		7.64	8.50	No
	U-NII-3	151	5755		6.92	7.50	No
	0-MII-3	159	5795		6.44	7.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
	U-NII-1	42	5210		8.03	9.50	No
	U-NII-2A	58	5290	MCS0	8.20	9.50	No
802.11ax-		106	5530		7.42	8.50	No
80	U-NII-2C	122	5610	MCSU	7.11	8.50	No
		138	5690		7.22	8.50	No
	U-NII-3	155	5775		6.49	7.50	No
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	SAR Test
802.11ax-	U-NII-2A	50	5250	MCS0	8.17	9.50	No
160	U-NII-2C	114	5570	IVICSU	7.33	8.50	No

Table 5: Conducted Power of WIFI.

	ВТ	Aver	Average Conducted Power(dBm)					
Band	Channel	0	39	78	Tune up			
	GFSK	8.76	9.07	8.16	10.00			
ВТ	π/4DQPSK	6.11	6.18	5.24	7.00			
	8DPSK	5.93	6.11	5.19	7.00			
Band	Channel	0	19	39	Tune up			
BLE 1M	GFSK	4.21	4.23	4.22	5.00			
BLE 2M	GFSK	4.20	4.25	4.32	5.00			

Table 6: Conducted Power of BT.



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BT DH5 Duty cycle=76.80%





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6.3 Measurement of SAR Data

Note:

- 1) The maximum Variant Scaled SAR value is marked in bold. Graph Results refer to Appendix B
- 2) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s).



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6.3.1 SAR Result of WIFI 2.4G

				Wi-F	i 2.4G SA	R Test Rec	ord				
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
				Test data	(Separate	0mm) Sen	osor On				
Back side	802.11b	6-2437	99.41%	1.006	0.821	0.09	13.26	14	1.186	0.979	22.6
Back side- repeat	802.11b	6-2437	99.41%	1.006	0.815	-0.02	13.26	14	1.186	0.972	22.6
Top side	802.11b	6-2437	99.41%	1.006	0.316	0.06	13.26	14	1.186	0.377	22.6
Back side	802.11b	1	99.41%	1.006	0.770	0.17	12.93	14	1.279	0.991	22.6
Back side	802.11b	11	99.41%	1.006	0.700	-0.10	12.39	14	1.449	1.020	22.6
Back side- Sample #2	802.11b	11	99.41%	1.006	0.672	0.08	12.39	14	1.449	0.979	22.6
	Test data (Separate 9mm) Senosor Off										
Back side	802.11b	6-2437	99.41%	1.006	0.397	0.17	18.15	19.00	1.216	0.486	22.6
Top side	802.11b	6-2437	99.41%	1.006	0.201	0.13	18.15	19.00	1.216	0.246	22.6

Table 7: SAR of WIFI 2.4G.

Note:

1)Per KDB 248227 D01, for Body SAR test of WiFi 2.4G, SAR is measured for 2.4 GHz 802.11b DSSS using the initial test position procedure. The highest reported SAR for DSSS is adjusted by the ratio of OFDM 802.11g/n to DSSS specified maximum output power and the adjusted SAR is < 1.2 W/kg, so SAR for 802.11g/n is not required.

2)As the 802.11b highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11b, therefore the adjusted SAR is \leq 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.



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6.3.2 SAR Result of WIFI 5G

				Wi-Fi 50	SAR Test	Record					
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)
			Te	st data of l	J-NII-2A 0m	m Sensor	On				
Back side	802.11ac-HT80	58/5290	93.75%	1.067	0.786	0.04	8.36	9.50	1.300	1.090	22.3
Back side-Sample #2	802.11ac-HT80	58/5290	93.75%	1.067	0.734	-0.01	8.36	9.50	1.300	1.018	22.3
Top side	802.11ac-HT80	58/5290	93.75%	1.067	0.662	0.03	8.36	9.50	1.300	0.918	22.3
			Te	st data of l	J-NII-2A 9m	m Sensor	Off				
Back side	802.11a	52/5260	97.20%	1.029	0.391	0.04	16.86	17.00	1.033	0.415	22.3
Top side	802.11a	52/5260	97.20%	1.029	0.692	0.15	16.86	17.00	1.033	0.735	22.3
			Te	st data of l	J-NII-2C 0m	m Sensor	On				
Back side	802.11ac-HT80	106/5530	93.75%	1.067	0.841	0.14	7.57	8.50	1.239	1.111	22.3
Back side	802.11ac-HT80	122/5210	93.75%	1.067	0.871	0.09	7.42	8.50	1.282	1.191	22.3
Back side-repeat	802.11ac-HT80	122/5210	93.75%	1.067	0.866	0.04	7.42	8.50	1.282	1.185	22.3
Back side	802.11ac-HT80	138/5690	93.75%	1.067	0.848	0.01	7.30	8.50	1.318	1.192	22.3
Back side-Sample #2	802.11ac-HT80	138/5690	93.75%	1.067	0.812	-0.03	7.30	8.50	1.318	1.142	22.3
Top side	802.11ac-HT80	106/5530	93.75%	1.067	0.539	0.02	7.57	8.50	1.239	0.712	22.3
			Te	st data of l	J-NII-2C 9m	m Sensor	Off				
Back side	802.11a	100/5500	97.20%	1.029	0.462	0.06	16.87	17.00	1.030	0.490	22.3
Top side	802.11a	100/5500	97.20%	1.029	0.875	-0.01	16.87	17.00	1.030	0.928	22.3
Top side	802.11a	116/5580	97.20%	1.029	0.803	0.07	16.71	17.00	1.069	0.883	22.3
			Te	est data of	U-NII-3 0mr	n Sensor	On				
Back side	802.11ac-HT80	155/5775	93.75%	1.067	0.643	0.05	6.68	7.50	1.208	0.828	22.3
<u>'</u>	802.11ac-HT80	155/5775	93.75%	1.067	0.775	0.04	6.68	7.50	1.208	0.998	22.3
Top side-Sample #2	802.11ac-HT80	155/5775	93.75%	1.067	0.671	-0.03	6.68	7.50	1.208	0.864	22.3
	1			est data of	U-NII-3 9mr	n Sensor	Off		1		
Back side	802.11n-HT40	159/5795	94.12%	1.062	0.291	0.15	13.66	15.00	1.361	0.421	22.3
Top side	802.11n-HT40	159/5795	94.12%	1.062	0.478	0.06	13.66	15.00	1.361	0.691	22.3

Table 8: SAR of WIFI 5G.

Note:

1) When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration;

Ant	Mode	Tune-up (dBm)	Tune-up (mw)	Hightest Reported SAR1-g(W/kg)	Adjusted SAR1-g(W/kg)	SAR test
			Ser	sor On		
	802.11a 20M (U-NII-2A)	7.00	5.01	0.897	1	Yes
Ant6	802.11a 20M (U-NII-1)	7.00	5.01	/	0.897	No
			Ser	sor Off		
	802.11a 20M (U-NII-1)	17.00	50.12	0.898	/	Yes



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	802.11a 20M (U-NII-2A)	15.50	35.48	/	0.636	No
--	---------------------------	-------	-------	---	-------	----

- 2) Per KDB248227D01,as 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.
- 3) As the 802.11a highest reported SAR is smaller than 1.2 W/kg , and the tune-up of the other 802.11 modes are not higher than 802.11a,therefore the adjusted SAR is \leq 1.2 W/kg for other 802.11 modes, SAR test for the other 802.11 modes are not required.



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6.3.1 SAR Result of BT

	Bluetooth SAR Test Record											
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
				Test	data (Separ	ate 0mm)						
Back side	DH5	39/2441	76.80%	1.302	0.079	0.03	9.07	10.00	1.239	0.128	22.6	
Back side	DH5	39/2441	76.80%	1.302	0.071	0.03	9.07	10.00	1.239	0.115	22.6	
Left side	DH5	39/2441	76.80%	1.302	0.000	0.01	9.07	10.00	1.239	0.000	22.6	
Right side	DH5	39/2441	76.80%	1.302	0.000	0.03	9.07	10.00	1.239	0.000	22.6	
Top side	DH5	39/2441	76.80%	1.302	0.022	0.12	9.07	10.00	1.239	0.036	22.6	
Bottom side	DH5	39/2441	76.80%	1.302	0.000	0.01	9.07	10.00	1.239	0.000	22.6	
Back side	DH5	0/2402	76.80%	1.302	0.063	-0.02	8.76	10.00	1.330	0.109	22.6	
Back side	DH5	78/2480	76.80%	1.302	0.061	0.01	8.16	10.00	1.528	0.121	22.6	

Table 9: SAR of BT



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6.4 Multiple Transmitter Evaluation

6.4.1 Simultaneous SAR SAR test evaluation

1) Simultaneous Transmission

NO.	Simultaneous Transmission Configuration	Body
1	WIFI 5G + BT	Yes
2	WIFI 6E + BT	Yes

Note:

WIFI 6E SAR/PD Please see the TESA2207000199ES FCC SAR Report

6.4.2 Simultaneous Transmission SAR Summation Scenario

1) SAR Simultaneous transmission

Test position		SARmax				
	WiFi 2.4G	WiFi 5G	WiFi 6E	ВТ	Summe	ed SAR
	1	2	3	4	2+4	3+4
Back side	1.020	1.192	0.799	0.128	1.320	0.927
Left side	0.400	0.400	0.001	0.000	0.400	0.401
Right side	0.400	0.400	0.058	0.000	0.400	0.058
Top side	0.377	0.998	1.037	0.036	1.034	1.073
Bottom side	0.400	0.400	0.001	0.000	0.400	0.001

Note:

Select the worst SAR instantaneous transmission for each location.





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2) PD Simultaneous transmission

	1	2	
Test position	Bluetooth	PD	1+2 Summed
	1g SAR (W/kg)	4cm^2(W/m^2)	
Back side	0.128	7.950	0.875
Left side	0.000	7.950	0.795
Right side	0.000	7.950	0.795
Top side	0.036	7.950	0.818
Bottom side	0.000	7.950	0.795

Note:

Pre FCC guidance, address all applicable simultaneous transmission conditions using the compliance condition TER≤1, where TER (total exposure ratio) in this context is defined as:

$$TER = \sum_{k=1}^{N_S} \left(\frac{SAR_k}{SAR_{\lim}} \right) + \sum_{k=1}^{N_f} \left(\frac{MPE_{field, k}}{MPE_{field, \lim}} \right)^2 + \sum_{k=1}^{N_{PD}} \left(\frac{MPE_{PD, k}}{MPE_{PD, \lim}} \right)$$

with NS, Nf, and NPD referring to sources requiring SAR, field-MPE, or PD-MPE, respectively, k referring to measured or estimated values for the source k, and "lim" to the corresponding applicable compliance limit.



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7 Equipment list

-	Equipment not										
	Test Platform	SPEAG DASY5	Professional								
	Description	SAR Test Systen	n (Frequency ran	ge 300MHz-6GHz)							
	Software Reference DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)										
	Hardware Reference										
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration					
\boxtimes	Twin Phantom	SPEAG	SAM5	1481	NCR	NCR					
\boxtimes	DAE	SPEAG	DAE4	1428	2022-04-27	2023-04-26					
\boxtimes	E-Field Probe	SPEAG	EX3DV4	3962	2022-05-26	2023-05-25					
\boxtimes	Validation Kits	SPEAG	D2450V2	1038	2020-04-08	2023-04-07					
\boxtimes	Validation Kits	SPEAG	D5GHzV2	1313	2022-01-25	2025-01-24					
\boxtimes	Dielectric parameter probes	SPEAG	DAKS-3.5	1120	2022-05-30	2023-05-29					
\boxtimes	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	0050920	2022-05-23	2023-05-22					
\boxtimes	RF Bi-Directional Coupler	Agilent	86205-60001	MY31400031	NCR	NCR					
\boxtimes	Signal Generator	R&S	SMB100A	100379	2021-12-04	2022-12-03					
\boxtimes	Preamplifier	Qiji	YX28980933	202104001	NCR	NCR					
\boxtimes	Power Meter	Anritsu	ML2495A	2136003	2021-12-4	2022-12-3					
\boxtimes	Power Sensor	Anritsu	MA2411B	1911376	2021-12-4	2022-12-3					
\boxtimes	Attenuator	SHX	TS2-3dB	30704	NCR	NCR					
\boxtimes	Coaxial low pass filter	Mini-Circuits	VLF-2500(+)	NA	NCR	NCR					
\boxtimes	Coaxial low pass filter	Microlab Fxr	LA-F13	NA	NCR	NCR					
\boxtimes	DC POWER SUPPLY	SAKO	SK1730SL5A	NA	NCR	NCR					
\boxtimes	Speed reading thermometer	LKM	DTM3000	SUW201-30-01	2021-10-09	2022-10-08					
\boxtimes	Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-06-15	2023-06-14					

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



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8 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.

9 Calibration certificate

Please see the Appendix C

10 Photographs

Please see the Appendix D



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Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs



