FCC SAR Test Report

APPLICANT: BungBungame Technology Co.,Ltd.

EQUIPMENT: BungBungame Tablet

BRAND NAME: BungBungame

MODEL NAME : KALOS 2

FCC ID : 2ADNC-KA2TB115

STANDARD : FCC 47 CFR Part 2 (2.1093)

ANSI/IEEE C95.1-1992

IEEE 1528-2013

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

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Approved by: Jones Tsai / Manager

lac-MRA



Report No. : FA5O1213

SPORTON INTERNATIONAL INC.

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)

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SPORTON LAB. FCC SAR Test Report

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA5O1213	Rev. 01	Initial issue of report	Jan. 29, 2016

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for BungBungame Technology Co.,Ltd., BungBungame Tablet, KALOS 2, are as follows.

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Equipment Class	Frequency Band		Highest SAR Summary Body (Separation 0mm) 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)
DTS	\A/I A N I	2.4GHz WLAN	0.92	0.92
NII	WLAN 5GHz WLAN		1.20	1.20
Date of Testing:		2015/12/18 ~ 20)15/12/26	

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications

2. Administration Data

Testing Laboratory		
Test Site SPORTON INTERNATIONAL INC.		
Test Site Location	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	

Applicant Applicant		
Company Name BungBungame Technology Co.,Ltd.		
Address 15F.,No.19-11,Sanchong Rd.,Nangang Dist.,Taipei City 11501,Taiwan(R.O.C)		

Manufacturer Manufacturer			
Company Name Inventec Appliances (Jiangning) Corporation			
Address 133 , Jiang-Jun Road, Jiangning District, Nanjing			

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3. Guidance Standard

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

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- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02

4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification		
Equipment Name	BungBungame Tablet	
Brand Name	BungBungame	
Model Name	KALOS 2	
FCC ID	2ADNC-KA2TB115	
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz	
Mode	802.11a/b/g/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth v2.1+EDR Bluetooth v4.1-LE NFC: ASK	
HW Version	PVT	
SW Version	1	
EUT Stage	Identical Prototype	
Remark : 1. 802.11ac-VTH20/40 is not supported in 2.4GHz WLAN		

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5. RF Exposure Limits

5.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

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5.2 Controlled Environment

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). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

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6. Specific Absorption Rate (SAR)

6.1 Introduction

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

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6.2 SAR Definition

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

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

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

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

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

7. System Description and Setup

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



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- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps,
- The phantom, the device holder and other accessories according to the targeted measurement.

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7.1 E-Field Probe

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

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)	
Directivity	±0.2 dB in TSL (rotation around probe axis) ±0.3 dB in TSL (rotation normal to probe axis)	
Dynamic Range	5 μW/g – >100 mW/g; Linearity: ±0.2 dB	
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 2.0 mm	



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<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Frequency	10 MHz - >6 GHz Linearity: ±0.2 dB (30 MHz - 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 – >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	



7.2 <u>Data Acquisition Electronics (DAE)</u>

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

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



Fig 5.1 Photo of DAE

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7.3 Phantom

<SAM Twin Phantom>

Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	
Filling Volume	Approx. 25 liters	/
Dimensions	Length: 1000 mm; Width: 500 mm; Height: adjustable feet	7 5
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

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The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

VEET I Halltonia		
Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

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

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7.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.





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Mounting Device for Hand-Held Transmitters

Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

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8. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

(a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

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- Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power
- Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band (e)
- Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

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

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

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8.1 Spatial Peak SAR Evaluation

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

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

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

- Extraction of the measured data (grid and values) from the Zoom Scan
- Calculation of the SAR value at every measurement point based on all stored data (A/D values and (b) measurement parameters)
- Generation of a high-resolution mesh within the measured volume (c)
- Interpolation of all measured values form the measurement grid to the high-resolution grid (d)
- Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface (e)
- Calculation of the averaged SAR within masses of 1g and 10g

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8.2 Power Reference Measurement

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

8.3 Area Scan

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

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

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

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8.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

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Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz	
Maximum zoom scan s	patial reso	lution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$	
	uniform	grid: $\Delta z_{Zoom}(n)$	≤ 5 mm	$3 - 4 \text{ GHz}: \le 4 \text{ mm}$ $4 - 5 \text{ GHz}: \le 3 \text{ mm}$ $5 - 6 \text{ GHz}: \le 2 \text{ mm}$	
Maximum zoom scan spatial resolution, normal to phantom surface	graded grid Δ	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	
		Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume	X V 7		≥ 30 mm	$3 - 4 \text{ GHz:} \ge 28 \text{ mm}$ $4 - 5 \text{ GHz:} \ge 25 \text{ mm}$ $5 - 6 \text{ GHz:} \ge 22 \text{ mm}$	

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.

8.5 Volume Scan Procedures

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

8.6 Power Drift Monitoring

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

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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 $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

9. Test Equipment List

Manufacturer	Name of Equipment	Type/Medal	Serial Number	Calib	ration
Manufacturer	Name of Equipment	Type/Model	Seriai Number	Last Cal.	Due Date
SPEAG	2450MHz System Validation Kit	D2450V2	736	Aug. 20, 2015	Aug. 19, 2016
SPEAG	5GHz System Validation Kit	D5GHzV2	1006	Oct. 06, 2015	Oct. 05, 2016
SPEAG	5GHz System Validation Kit	D5GHzV2	1128	Jul. 20, 2015	Jul. 19, 2016
SPEAG	Data Acquisition Electronics	DAE3	495	May. 22, 2015	May. 21, 2016
SPEAG	Data Acquisition Electronics	DAE3	577	Sep. 24, 2015	Sep. 23, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3925	May. 27, 2015	May. 26, 2016
SPEAG	Dosimetric E-Field Probe	EX3DV4	3931	Oct. 01, 2015	Sep. 30, 2016
WonDer	Thermometer	WD-5015	TM642	Oct. 16, 2015	Oct. 15, 2016
SPEAG	Device Holder	N/A	N/A	N/A	N/A
R&S	Signal Generator	MG3710A	6201502524	May. 25, 2015	May. 24, 2016
Agilent	ENA Network Analyzer	E5071C	MY46316648	Feb. 11, 2015	Feb. 10, 2016
SPEAG	Dielectric Probe Kit	DAK-3.5	1126	Jul. 21, 2015	Jul. 20, 2016
LINE SEIKI	Digital Thermometer	LKMelectronic	DTM3000SPEZIAL	Jul. 17, 2015	Jul. 16, 2016
Anritsu	Power Meter	ML2495A	1419002	May. 13, 2015	May. 12, 2016
Anritsu	Power Sensor	MA2411B	1339124	May. 13, 2015	May. 12, 2016
Anritsu	Spectrum Analyzer	MS2830A	6201396378	Jun. 17, 2015	Jun. 16, 2016
ATM	Dual Directional Coupler	C122H-10	P610410z-02	No	te 1
Woken	Attenuator 1	WK0602-XX	N/A	No	te 1
PE	Attenuator 2	PE7005-10	N/A	No	te 1
PE	Attenuator 3	PE7005- 3	N/A	No	te 1
AR	Power Amplifier	5S1G4M2	0328767	No	te 1
Mini-Circuits	Power Amplifier	ZVE-3W	162601250	No	te 1

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General Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.

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10. System Verification

10.1 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

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Frequency	Water	Sugar	Cellulose	Salt	Preventol	DGBE	Conductivity	Permittivity		
(MHz)	(%)	(%)	(%)	(%)	(%)	(%)	(σ)	(εr)		
For Head										
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9		
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5		
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5		
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0		
2450	55.0	0	0	0	0	45.0	1.80	39.2		
2600	54.8	0	0	0.1	0	45.1	1.96	39.0		
				For Body						
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5		
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2		
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0		
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3		
2450	68.6	0	0	0	0	31.4	1.95	52.7		
2600	68.1	0	0	0.1	0	31.8	2.16	52.5		

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

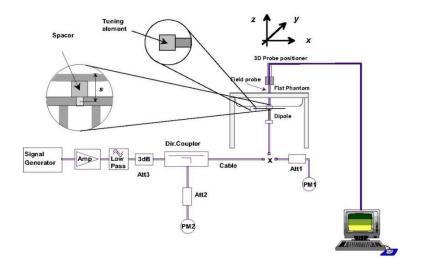
<Tissue Dielectric Parameter Check Results>

Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date
2450	MSL	22.2	1.981	54.602	1.95	52.70	1.59	3.61	±5	2015/12/18
2450	MSL	22.5	2.019	51.633	1.95	52.70	3.54	-2.02	±5	2015/12/26
5200	MSL	22.3	5.475	46.987	5.30	49.00	3.30	-4.11	±5	2015/12/26
5250	MSL	22.2	5.554	47.069	5.36	48.95	3.62	-3.84	±5	2015/12/18
5750	MSL	22.2	6.231	46.191	5.94	48.27	4.90	-4.31	±5	2015/12/18
5800	MSL	22.3	6.271	45.959	6.00	48.20	4.52	-4.65	±5	2015/12/26

10.2 System Performance Check Results

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

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2015/12/18	2450	MSL	250	D2450V2-736	EX3DV4 - SN3931	DAE3 Sn577	12.20	51.90	48.80	-5.97
2015/12/26	2450	MSL	250	D2450V2-736	EX3DV4 - SN3925	DAE3 Sn495	12.60	51.90	50.40	-2.89
2015/12/26	5200	MSL	100	D5GHzV2-1006-5200	EX3DV4 - SN3925	DAE3 Sn495	8.14	75.60	81.40	7.67
2015/12/18	5250	MSL	100	D5GHzV2-1128-5250	EX3DV4 - SN3931	DAE3 Sn577	8.02	76.20	80.20	5.25
2015/12/18	5750	MSL	100	D5GHzV2-1128-5750	EX3DV4 - SN3931	DAE3 Sn577	7.64	75.90	76.40	0.66
2015/12/26	5800	MSL	100	D5GHzV2-1006-5800	EX3DV4 - SN3925	DAE3 Sn495	8.32	79.00	83.20	5.32





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Fig 8.3.1 System Performance Check Setup

Fig 8.3.2 Setup Photo

11. RF Exposure Positions

11.1 SAR Testing for Tablet

This device can be used also in full sized tablet exposure conditions, due to its size. Per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR exclusion threshold in KDB 447498 D01v06 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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12. Conducted RF Output Power (Unit: dBm)

<WLAN Conducted Power>

General Note:

1. For WLAN SAR testing was performed on single antenna RF power in SISO mode is larger or equal to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode.

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- Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to
 determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain
 SAR measurements is < 1.6W/kg and SAR peak to location ratio < 0.04, no additional SAR measurements for
 MIMO
- 3. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
- 4. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
- 5. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
- 6. 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.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, 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.

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<2.4GHz WLAN ANT 1>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412		11.58	12.00	
	802.11b	CH 6	2437	1Mbps	11.57	12.00	98.62
		CH 11	2462		11.97	12.00	
	802.11g	CH 1	2412		11.51	12.00	93.46
2.4GHz WLAN ANT 1		CH 6	2437	6Mbps	11.67	12.00	
7		CH 11	2462		11.97	12.00	
		CH 1	2412		11.51	12.00	
	802.11n-HT20	CH 6	2437	MCS0	11.53	12.00	
		CH 11	2462		11.86	12.00	
		CH 3	2422	MCS0	11.53	12.00	86.61
	802.11n-HT40	CH 6	2437		11.64	12.00	
		CH 9	2452		11.67	12.00	

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<2.4GHz WLAN ANT 2>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412		11.77	12.00	
	802.11b	CH 6	2437	1Mbps	11.70	12.00	98.62
		CH 11	2462		11.91	12.00	
	802.11g	CH 1	2412		11.69	12.00	92.86 92.36
2.4GHz WLAN ANT 2		CH 6	2437	6Mbps	11.51	12.00	
7 2		CH 11	2462		11.87	12.00	
		CH 1	2412		11.62	12.00	
	802.11n-HT20	CH 6	2437	MCS0	11.55	12.00	
		CH 11	2462		11.85	12.00	
		CH 3	2422		11.52	12.00	86.61
	802.11n-HT40	CH 6	2437	MCS0	11.58	12.00	
		CH 9	2452		11.64	12.00	

<2.4GHz WLAN ANT 1+2>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 1	2412		14.63	15.00	93.06
2.4GHz WLAN ANT 1+2	802.11n-HT20 802.11n-HT40	CH 6	2437	MCS0	14.61	15.00	
7		CH 11	2462		14.96	15.00	
		CH 3	2422		14.67	15.00	
		CH 6	2437	MCS0	14.72	15.00	
		CH 9	2452		14.68	15.00	

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<5GHz WLAN ANT1>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 36	5180		9.54	10.50	
	802.11a	CH 40	5200	0.541	9.87	10.50	02.54
	802.11a	CH 44	5220	6Mbps	9.97	10.50	93.51
		CH 48	5240		9.50	10.50	
		CH 36	5180		9.65	10.50	
	802.11n-HT20	CH 40	5200	MCS0	9.75	10.50	92.41
5.2GHz WLAN		CH 44	5220		9.95	10.50	
ANT 1		CH 48	5240		9.88	10.50	
	802.11n-HT40	CH 38	5190	14000	9.53	10.50	
	602.1111 - П140	CH 46	5230	MCS0	9.59	10.50	
		CH 36	5180		9.52	10.50	
	802.11ac-VHT20	CH 40	5200	MCS0	9.74	10.50	00.47
	602.11ac-vn120	CH 44	5220	IVICSU	9.85	10.50	92.47
		CH 48	5240		9.69	10.50	
	902 1100 V/HT40	CH 38	5190	14000	9.50	10.50	86.72
	802.11ac-VHT40	CH 46	5230	MCS0	9.58	10.50	
	802.11ac-VHT80	CH 42	5210	MCS0	9.52	10.00	76.39

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	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
		CH 149	5745		8.54	10.00		
	802.11a	CH 157	5785	MCS0	8.69	10.00	93.51	
		CH 165	5825		8.52	10.00		
		CH 149	5745		8.54	10.00		
5 0011 14/1 411	802.11n-HT20	CH 157	5785	MCS0	8.64	10.00	92.41	
5.8GHz WLAN ANT 1		CH 165	5825		8.53	10.00		
	802.11n-HT40	CH 151	5755	MCS0	8.56	10.00	86.61	
		CH 159	5795	MCSU	8.54	10.00	00.01	
		CH 149	5745		8.53	10.00		
	802.11ac-VHT20	CH 157	5785	MCS0	8.57	10.00	92.47	
		CH 165	5825		8.52	10.00		
	902 11ac \/UT40	CH 151	5755	MCS0	8.51	10.00	86.72	
	802.11ac-VHT40	CH 159	5795	IVICSU	8.50	10.00	00.72	
	802.11ac-VHT80	CH 155	5775	MCS0	8.62	9.50	76.39	

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<5GHz WLAN ANT2>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %
		CH 36	5180		9.54	10.50	
	802.11a	CH 40	5200	6Mbps	9.53	10.50	93.46
	602.11a	CH 44	5220	olvibps	9.50	10.50	93.46
		CH 48	5240		9.59	10.50	
		CH 36	5180		9.67	10.50	
	802.11n-HT20	CH 40	5200	MCS0	9.75	10.50	92.41
5.2GHz WLAN	602.11II-H120	CH 44	5220		9.84	10.50	92.41
ANT 2		CH 48	5240		9.95	10.50	
	802.11n-HT40	CH 38	5190	MCS0	9.59	10.50	86.22
		CH 46	5230	IVICSU	9.56	10.50	00.22
		CH 36	5180		9.51	10.50	
	802.11ac-VHT20	CH 40	5200	MCS0	9.75	10.50	92.47
	002.11ac-vn120	CH 44	5220	IVICSU	9.85	10.50	92.47
		CH 48	5240		9.86	10.50	
	802.11ac-VHT40	CH 38	5190	MCS0	9.53	10.50	86.72
	002.11ac-vn140	CH 46	5230	IVICSU	9.70	10.50	00.72
	802.11ac-VHT80	CH 42	5210	MCS0	9.97	10.00	76.39

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
		CH 149	5745		8.89	10.00		
	802.11a	CH 157	5785	MCS0	8.87	10.00	93.46	
		CH 165	5825		8.74	10.00		
		CH 149	5745		8.84	10.00		
	802.11n-HT20	CH 157	5785	MCS0	8.79	10.00	92.41	
5.8GHz WLAN ANT 2		CH 165	5825		8.75	10.00		
7 =	802.11n-HT40	CH 151	5755	MCS0	8.66	10.00	86.22	
		CH 159	5795	IVICSO	8.58	10.00	00.22	
		CH 149	5745		8.54	10.00		
	802.11ac-VHT20	CH 157	5785	MCS0	8.78	10.00	92.47	
		CH 165	5825		8.66	10.00		
	802.11ac-VHT40	CH 151	5755	MCS0	8.56	10.00	86.72	
	002.11a0-VH140	CH 159	5795	IVICSU	8.52	10.00	00.72	
	802.11ac-VHT80	CH 155	5775	MCS0	8.81	9.50	76.39	

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<5GHz WLAN ANT1+2>

	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
		CH 36	5180		12.99	13.50		
	802.11n-HT20	CH 40	5200	MCS0	12.94	13.50	93.06	
	002.1111 - 1120	CH 44	5220	IVICSU	12.96	13.50	93.06	
		CH 48	5240		12.95	13.50		
5.2GHz WLAN	802.11n-HT40	CH 38	5190	MCS0	12.80	13.50	86.61	
ANT 1+2		CH 46	5230	IVICSU	12.77	13.50	00.01	
		CH 36	5180		12.52	13.50	_	
	802.11ac-VHT20	CH 40	5200	MCS0	12.76	13.50	92.41	
	002.11ac-vH120	CH 44	5220	IVICSU	12.89	13.50	92.41	
		CH 48	5240		12.87	13.50		
	802.11ac-VHT40	CH 38	5190	MCS0	12.75	13.50	0E 71	
	002.11aC-VH140	CH 46	5230	IVICSU	12.71	13.50	85.71	
	802.11ac-VHT80	CH 42	5210	MCS0	12.99	13.00	76.39	

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	Mode	Channel	Frequency (MHz)	Data Rate	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
		CH 149	5745		11.85	12.50		
	802.11n-HT20	CH 157	5785	MCS0	11.86	12.50	93.06	
		CH 165	5825		11.78	12.50		
5.8GHz WLAN	802.11n-HT40	CH 151	5755	MCS0	11.68	12.50	86.61	
ANT 1+2		CH 159	5795	MCSU	11.73	12.50	00.01	
		CH 149	5745		11.77	12.50		
	802.11ac-VHT20	CH 157	5785	MCS0	11.82	12.50	92.41	
		CH 165	5825		11.67	12.50		
	902 44cc \/UT40	CH 151	5755	MCS0	11.64	12.50	05.74	
8	802.11ac-VHT40	CH 159	5795	IVICSU	11.60	12.50	85.71	
	802.11ac-VHT80	CH 155	5775	MCS0	11.85	12.00	76.39	

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13. Bluetooth Exclusions Applied

Mode Band	Average power(dBm)							
Mode Band	Bluetooth v2.1+EDR	Bluetooth v4.1+LE						
2.4GHz Bluetooth	4.0	4.0						

Note:

1. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

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- 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

Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
4	< 5	2.48	0.94

Note:

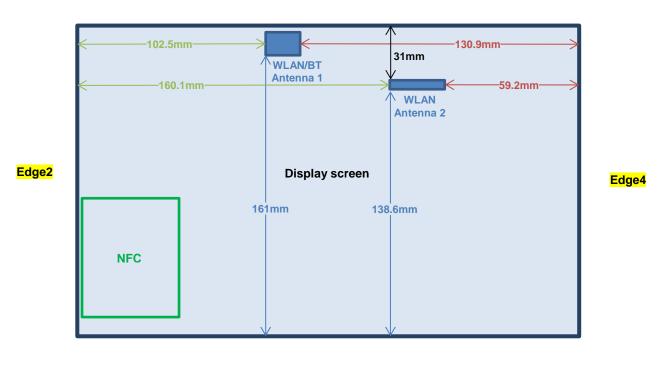
Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.94 which is <= 3, SAR testing is not required.

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14. Antenna Location

Edge1



Edge3 Back View

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<SAR test exclusion table>

General Note:

1. The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"

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- 2. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- 3. Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- 4. Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
- 5. Per KDB 447498 D01v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

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

- 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
- 6. Per KDB 447498 D01v06, 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) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm) 10] mW at > 1500 MHz and ≤ 6 GHz

	Wireless Interface	2.4GHz WLAN ANT 1	2.4GHz WLAN ANT 2	5GHz WLAN ANT 1	5GHz WLAN ANT 2
Exposure Position	Calculated Frequency	2462MHz	2462MHz	5825MHz	5825MHz
<u> </u>	Maximum power (dBm)	12	12	10.5	10.5
	Maximum rated power(mW)	16.0	16.0	11.0	11.0
	Separation distance(mm)	5.0	5.0	5.0	5.0
Bottom Face	exclusion threshold	5.0	5.0	5.3	5.3
	Testing required?	Yes	Yes	Yes	Yes
	Separation distance(mm)	6.0	31.0	6.0	31.0
Edge 1	exclusion threshold	4.2	0.8	4.4	0.9
	Testing required?	Yes	No	Yes	No
	Separation distance(mm)	102.5	160.1	102.5	160.1
Edge 2	exclusion threshold	621.0	1196.0	587.0	1163.0
	Testing required?	No	No	No	No
	Separation distance(mm)	161.0	138.6	161.0	138.6
Edge 3	exclusion threshold	1206.0	981.0	1172.0	948.0
	Testing required?	No	No	No	No
	Separation distance(mm)	130.9	59.2	130.9	59.2
Edge 4	exclusion threshold	905.0	187.0	872.0	154.0
	Testing required?	No	No	No	No

15. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - · ≤ 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

WLAN Note:

- 1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required 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.
- When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test
- For all positions / configurations, 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.
- For WLAN SAR testing was performed on single antenna RF power in SISO mode is larger or equal to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode.
- Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6W/kg and SAR peak to location ratio < 0.04, no additional SAR measurements for MIMO.
- During SAR testing the WLAN transmission was verified using a spectrum analyzer.

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15.1 Body SAR

<WLAN SAR>

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 1	11	2462	11.97	12.00	1.007	98.62	1.014	-0.01	0.831	0.848
01	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 1	1	2412	11.58	12.00	1.102	98.62	1.014	-0.18	0.825	0.921
	WLAN2.4GHz	802.11b 1Mbps	Edge 1	0mm	Ant 1	11	2462	11.97	12.00	1.007	98.62	1.014	-0.19	0.027	0.028
	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 2	11	2462	11.91	12.00	1.021	98.62	1.014	-0.1	0.764	0.791
02	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 1	46	5230	9.59	10.50	1.233	86.61	1.155	0	0.834	1.188
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 1	38	5190	9.53	10.50	1.250	86.61	1.155	-0.02	0.639	0.923
	WLAN5GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 1	46	5230	9.59	10.50	1.233	86.61	1.155	0.13	0.040	0.057
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 2	38	5190	9.59	10.50	1.232	86.22	1.160	-0.18	0.415	0.593
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 1	151	5755	8.56	10.00	1.392	86.61	1.155	0.01	0.743	1.194
03	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 1	159	5795	8.54	10.00	1.398	86.61	1.155	0.16	0.741	1.197
	WLAN5GHz	802.11n-HT40 MCS0	Edge 1	0mm	Ant 1	151	5755	8.56	10.00	1.392	86.61	1.155	0.13	0.028	0.045
	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 2	151	5755	8.66	10.00	1.360	86.22	1.160	-0.15	0.351	0.554

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15.2 Repeated SAR Measurement

No.	Band	Mode	Test Position	Gap (mm)	Antenna	Ch.	Freq. (MHz)	Power	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 1	11	2462	11.97	12.00	1.007	98.62	1.014	-0.01	0.831	-	0.848
2nd	WLAN2.4GHz	802.11b 1Mbps	Bottom Face	0mm	Ant 1	11	2462	11.97	12.00	1.007	98.62	1.014	-0.13	0.826	1.01	0.843
1st	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 1	46	5230	9.59	10.50	1.233	86.61	1.155	0	0.834	-	1.188
2nd	WLAN5GHz	802.11n-HT40 MCS0	Bottom Face	0mm	Ant 1	46	5230	9.59	10.50	1.233	86.61	1.155	-0.07	0.826	1.01	1.176

General Note:

- 1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/kg.
- 2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR <1.45W/kg, only one repeated measurement is required.
- 3. The ratio is the difference in percentage between original and repeated *measured SAR*.
- 4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

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16. Simultaneous Transmission Analysis

NO	Simultaneous Transmission Configurations	Tablet
NO.	Simultaneous Transmission Configurations	Body
1.	Bluetooth Antenna 1 + WLAN Antenna 2	Yes
2.	WLAN Antenna 1 + WLAN Antenna 2	Yes

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General Note:

- 1. For SAR testing was performed on single antenna RF power in SISO mode is larger or equal to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission exclusion analysis was performed with SAR test results of each antenna in SISO mode.
- 2. WLAN and Bluetooth share the same antenna1, and cannot transmit simultaneously.
- 3. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.
- 4. The Scaled SAR summation is calculated based on the same configuration and test position.
- 5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
 - v) The SPLSR calculated results please refer to section 16.2.
- For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01v06 based on the formula below.
 - i) (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.
 - ii) When the minimum separation distance is < 5mm, the distance is used 5mm to determine SAR test exclusion.
 - iii) 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm.
 - iv) Bluetooth estimated SAR is conservatively determined by 5mm separation, for all applicable exposure positions.

Bluetooth Max Power	Exposure Position	All Positions
4.0 dBm	Estimated SAR (W/kg)	0.126 W/kg

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16.1 Tablet Body Exposure Conditions

Exposure Position	1 2.4GHz WLAN Ant 1 1g SAR (W/kg)	2 2.4GHz WLAN Ant 2 1g SAR (W/kg)	1+2 Summed 1g SAR (W/kg)	SPLSR	Case No
Bottom Face at 0mm	0.921	0.791	1.71	0.030	Case 1
Edge 1 at 0mm	0.028		0.03		

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Exposure Position	3 5GHz WLAN Ant 1 1g SAR (W/kg)	4 5GHz WLAN Ant 2 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)	SPLSR	Case No
Bottom Face at 0mm	1.197	0.593	1.79	0.040	Case 2
Edge 1 at 0mm	0.057		0.06		

	2	5	2+5		
Exposure Position	2.4GHz WLAN Ant 2	Bluetooth Ant 1	Summed	SPLSR	Case No
	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)		
Bottom Face at 0mm	0.791	0.126	0.92		
Edge 1 at 0mm		0.126	0.13		

	4	4 5			
Exposure Position	5GHz WLAN Ant 2	Bluetooth Ant 1	4+5 Summed	SPLSR	Case No
	1g SAR (W/kg)	Estimated 1g SAR (W/kg)	1g SAR (W/kg)		
Bottom Face at 0mm	0.593	0.126	0.72		
Edge 1 at 0mm		0.126	0.13		

16.2 SPLSR Evaluation and Analysis

General Note:

SPLSR = (SAR₁ + SAR₂)^{1.5} / (min. separation distance, mm). If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary

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	Band	Position	SAR	Gap	SAR p	eak locatio	n (m)	3D	Summed	SPLSR	Simultaneous
Case 1	Band	Position	(W/kg)	(cm)	Х	Y	z	distance (mm)	SAR (W/kg)	Results	SAR
Case I	WLAN2.4G Ant1	Bottom Face	0.921	0	-0.055	0.051	-0.176	72.6	1 71	0.03	Not required
	WLAN2.4G Ant2	DOLLOIII FACE	0.791	0	-0.0778	-0.019	-0.176	73.6	1.71	0.03	Not required
					WLAN Antenna 1		/LAN enna 2				

	Band	Danitian	SAR	Gap	SAR p	eak locatio	n (m)	3D	Summed	SPLSR	Simultaneous
Case 2		Position	(W/kg)	(cm)	Х	Υ	Z	distance (mm)	SAR (W/kg)	Results	SAR
Case 2	WLAN5GHz Ant1	Bottom Face	0.593	0	-0.055	0.041	-0.176	63.9	1.79	0.04	Not required
	WLAN5GHz Ant2	Dollom Face	1.197	0	-0.077	-0.019	-0.176	03.9	1.79	0.04	Not required
				•	WLAN Antenna	1 WL					

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17. Uncertainty Assessment

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

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A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

Uncertainty Distributions	Incertainty Distributions Normal		Triangular	U-Shape	
Multi-plying Factor ^(a)	1/k ^(b)	1/√3	1/√6	1/√2	

- (a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity
- (b) κ is the coverage factor

Table 17.1. Standard Uncertainty for Assumed Distribution

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

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Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	
Measurement System	Measurement System							
Probe Calibration	6.0	N	1	1	1	6.0	6.0	
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6	
Linearity	4.7	R	1.732	1	1	2.7	2.7	
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	
Readout Electronics	0.3	N	1	1	1	0.3	0.3	
Response Time	0.0	R	1.732	1	1	0.0	0.0	
Integration Time	2.6	R	1.732	1	1	1.5	1.5	
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7	
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2	
Test Sample Related								
Device Positioning	3.0	N	1	1	1	3.0	3.0	
Device Holder	3.6	N	1	1	1	3.6	3.6	
Power Drift	5.0	R	1.732	1	1	2.9	2.9	
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	
Phantom and Setup								
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5	
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1	
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0	
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	
Temp. unc Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4	
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0	
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8	
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	
Temp. unc Permittivity	0.1	0.1						
Cor	11.4%	11.4%						
Co	K=2	K=2						
Exp	22.9%	22.7%						

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Table 17.2. Uncertainty Budget for frequency range 300 MHz to 3 GHz

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Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)
Measurement System							
Probe Calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2
Linearity	4.7	R	1.732	1	1	2.7	2.7
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6
Modulation Response	3.2	R	1.732	1	1	1.8	1.8
Readout Electronics	0.3	N	1	1	1	0.3	0.3
Response Time	0.0	R	1.732	1	1	0.0	0.0
Integration Time	2.6	R	1.732	1	1	1.5	1.5
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3
Test Sample Related							
Device Positioning	3.0	N	1	1	1	3.0	3.0
Device Holder	3.6	N	1	1	1	3.6	3.6
Power Drift	5.0	R	1.732	1	1	2.9	2.9
Power Scaling	0.0	R	1.732	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0
Temp. unc Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4
Temp. unc Permittivity	0.1	0.1					
Cor	12.5%	12.5%					
Co	K=2	K=2					
Ext	oanded STD Ur	certainty				25.0%	24.9%

Table 17.3. Uncertainty Budget for frequency range 3 GHz to 6 GHz

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