



SAR EVALUATION REPORT

For

SZ DJI TECHNOLOGY CO., LTD

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FCC ID: SS3-NB06251803

Report Type: Product Type: Original Report Multilink **Report Number:** RDG180409002-20 **Report Date:** 2018-05-27 Rucky xiao Rocky Xiao RF Engineer **Reviewed By:** Prepared By: Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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	Attestat	tion of Test Results		
	EUT Description	Multilink		
	Tested Model	NB0625		
EUT Information	FCC ID	SS3-NB06251803		
	Serial Number	18040900120		
	Test Date	2018-05-08 ~ 2018-05-20		
	Но	ost Platform 1	1	
МО	DE	Max. SAR Level(s) Reported(W/kg)	Limit	
LB 2.4GHz	10g Extremity SAR	0.25		
LB 5.8GHz	10g Extremity SAR	0.32		
DTS 2.4GHz	10g Extremity SAR	0.22		
NII 5.8GHz	10g Extremity SAR	1.05	4.0 W/kg	
FSK 2.4GHz	10g Extremity SAR	1.07		
FSK 5.8GHz	10g Extremity SAR	1.14		
Simultaneous	10g Extremity SAR	2.00		
LB 2.4GHz	1g Body SAR	0.43		
LB 5.8GHz	1g Body SAR	0.22		
DTS 2.4GHz	1g Body SAR	0.16		
NII 5.8GHz	1g Body SAR	0.82	1. 6 W/kg	
FSK 2.4GHz	1g Body SAR	0.61		
FSK 5.8GHz	1g Body SAR	0.47		
Simultaneous	1g Body SAR	1.57		
	Но	ost Platform 2		
МО	DE	Max. SAR Level(s) Reported(W/kg)	Limit	
LB 2.4GHz	10g Extremity SAR	0.44		
LB 5.8GHz	10g Extremity SAR	0.19		
WLAN 2.4GHz	10g Extremity SAR	0.41		
WLAN 5.8GHz	10g Extremity SAR	0.49	4.0 W/kg	
FSK 2.4GHz	10g Extremity SAR	0.90		
FSK 5.8GHz	10g Extremity SAR	0.82		
Simultaneous	10g Extremity SAR	1.83		
LB 2.4GHz	1g Body SAR	0.22		
LB 5.8GHz	1g Body SAR	0.09		
WLAN 2.4GHz	1g Body SAR	0.24		
WLAN 5.8GHz	1g Body SAR	0.67	1. 6 W/kg	
FSK 2.4GHz	1g Body SAR	0.20		
FSK 5.8GHz	1g Body SAR	0.62		
Simultaneous	1g Body SAR	1.51		

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	FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devices		
	1 7 1		
	IEEE1528:2013		
	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific		
	Absorption Rate (SAR) in the Human Head from Wireless Communications Devices:		
	Measurement Techniques		
	IEC 62209-2:2010		
Human exposure to radio frequency fields from hand-held and body-mounted communication devices-Human models, instrumentation, and procedures-Par Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 M			
	GHz)		
	KDB procedures		
	KDB 447498 D01 General RF Exposure Guidance v06.		
	KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04		
KDB 248227 D01 802 11 Wi-Fi SAR v02r02			
	KDB 865664 D02 RF Exposure Reporting v01r02		
	KDB 941225 D07 UMPC Mini Tablet v01r02		

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

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision	
1.0 RDG180409002-20		Original Report	2018-05-27	

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EUT DESCRIPTION

This report has been prepared on behalf of *SZ DJI TECHNOLOGY CO., LTD* and their product *Multilink*, Model: *NB0625*, FCC ID: *SS3-NB06251803*, or the EUT (Equipment under Test) as referred to in the rest of this report.

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All measurement and test data in this report was gathered from production sample serial number: 18040900220 (Assigned by BACL). The EUT was received on 2018-04-20.

Technical Specification

Device Type:	Portable			
Exposure Category:	Population / Uncontrolled			
	Host Platform 1	External Antenna for LB 2.4G/5.8G		
		Internal Antenna for DTS 2.4G/NII 5.8G		
Antenna Type(s):	Host Platform 2	External Antenna for LB 2.4G/5.8G		
	HOSt Platform 2	Internal Antenna for WLAN 2.4G/5.8G		
	External Antenna	for FSK 2.4G/5.8G		
	Host Platform 1	LB 2.4G/ LB5.8G, DTS 2.4G / NII 5.8G		
Operation Mode :	Host Platform 2	LB 2.4G/ LB5.8G, WLAN 2.4G/ WLAN 5.8G		
	FSK 2.4G/ FSK5.	FSK 2.4G/ FSK5.8G		
Accessories:	None	None		
	Host Platform 1	LB2.4G: 2404~2478.8 MHz, LB5.8G: 5727~5821.3 MHz		
		DTS 2.4G: 2412~2462 MHz, NII 5.8G: 5745~5825 MHz		
Frequency Band:	Host Platform 2	LB2.4G: 2404~2478.8 MHz, LB5.8G: 5727~5821.3 MHz		
		WLAN2.4G:2412~2462MHz,WLAN5.8G:5745~5825 MHz		
	FSK 2.4G: 2400~2	2483.5 MHz, FSK 5.8G: 5725~5850 MHz		
	Host Platform 1	LB 2.4G: 22.36 dBm, LB 5.8G: 24.37 dBm		
	HOSt Platform 1	DTS 2.4G: 17.80 dBm, NII 5.8G: 21.40 dBm		
Conducted RF Power:	Host Platform 2	LB 2.4G: 22.29 dBm, LB 5.8G: 23.86 dBm		
	HOSt Platform 2	WLAN 2.4G: 16.88 dBm,WLAN 5.8G: 18.95 dBm		
	FSK 2.4G: 20.73 dBm, FSK 5.8G: 21.79 dBm			
Dimensions (L*W*H):	77 mm (L) × 47 mm (W) × 14 mm (H)			
Power Source:	: 5 VDC			
Normal Operation:	Handheld and Close to Body			

Host	Applicant	Description	Mode	FCC ID	Serial Number	FCC Certification Date
Host Platform 1	DJI	Cendence	GL800A	SS3-GL800A1703	17032600221	2017-05-26
Host Platform 2	DJI	C1	GL6D10A	SS3-GL6D10A1609	16081300821	2016-10-04

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REFERENCE, STANDARDS, AND GUIDELINES

FCC:

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

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

CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by EN62209-1 for an uncontrolled environment. According to the Standard, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

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SAR Limits

FCC Limit

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	SAR (W/kg)		
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)	
Spatial Average (averaged over the whole body)	0.08	0.4	
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0	
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0	

CE Limit

	SAR (W/kg)		
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)	
Spatial Average (averaged over the whole body)	0.08	0.4	
Spatial Peak (averaged over any 10 g of tissue)	2.0	10	
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0	

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

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

General Population/Uncontrolled environments Spatial Peak limit 4.0W/kg for 10g Extremity SAR and 1.6W/kg for 1g Body SAR applied to the EUT.

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FACILITIES

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China

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The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 897218,the FCC Designation No.: CN1220.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062D.

The test sites and measurement facilities used to collect data are located at:

SAR Lab 1	⊠ SAR Lab 2
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DESCRIPTION OF TEST SYSTEM

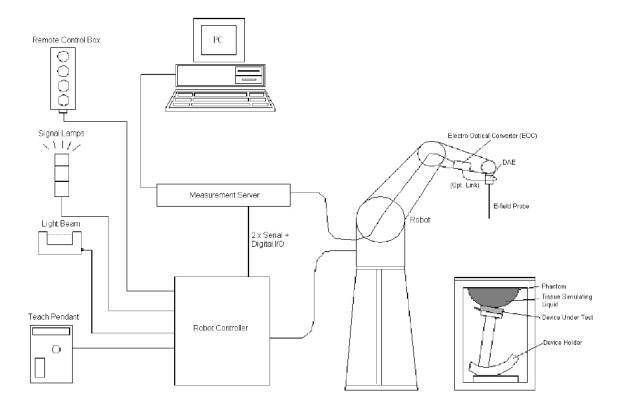
These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:

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DASY5 System Description

The DASY5 system 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 application, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical



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processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

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

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

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

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EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: \pm 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

Triple Flat Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm(\pm 0.2 mm) shell thickness . The phantom shell is compatible with SPEAG tissue simulating liquids (sugar and oil based). Use of other liquids may render the phantom warranty void (see note or consult SPEAG support).

The phantom table have the size of 100 x 75 x 91 cm (L x W x H).

For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement

positions in the three sections. Only one device holder is necessary if two phantoms are used (e.g., for different liquids)



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A white cover is provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. Free space scans of devices on top of this phantom cover are possible. Three reference marks are provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.

Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

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

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The above mentioned robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

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Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

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

Zoom Scan (Cube Scan Averaging)

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

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

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

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

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Recommended Tissue Dielectric Parameters for Head and Body

Frequency	Head Tissue		Body	Tissue
(MHz)	εr	O'(S/m)	εr	O' (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

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EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

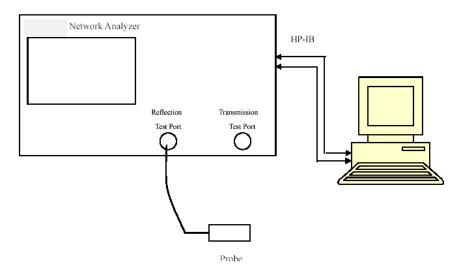
Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.8	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1567	NCR	NCR
Data Acquisition Electronics	DAE4	772	2017/10/9	2018/10/8
E-Field Probe	EX3DV4	7431	2017/9/30	2018/9/29
Mounting Device	MD4HHTV5	BJPCTC0152	NCR	NCR
Triple Flat Phantom 5.1C	QD 000 P51 CA	1130	NCR	NCR
Dipole,2450 MHz	D2450V2	971	2015/7/8	2018/7/8
Dipole,5GHz	D5GHzV2	1246	2016/11/7	2019/11/6
Simulated Tissue 2450 MHz Body	TS-2450-B	1709245002	Each Time	/
Simulated Tissue 5800 MHz Body	TS-5800-B	1701580002	Each Time	/
Network Analyzer	8753C	3033A02857	2017/8/31	2018/8/31
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
ESG Series Signal Generator	E4422B	MY41000355	2017/12/14	2018/12/14
Power Meter	EPM-441A	GB37481494	2017/12/11	2018/12/11
Power Amplifier	ZVA-183-S+	5969001149	NCR	NCR
Directional Coupler	488Z	N/A	NCR	NCR
Attenuator	20dB, 100W	N/A	NCR	NCR
Attenuator	3dB, 150W	N/A	NCR	NCR

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SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



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Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency	Frequency Liquid		Liquid Parameter		Target Value		elta 6)	Tolerance
(MHz)	Туре	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
2407.4	Simulated Tissue 2450 MHz Body	54.402	1.908	52.76	1.91	3.11	-0.1	±5
2408	Simulated Tissue 2450 MHz Body	54.382	1.911	52.76	1.91	3.07	0.05	±5
2412	Simulated Tissue 2450 MHz Body	54.342	1.912	52.75	1.91	3.02	0.1	±5
2437	Simulated Tissue 2450 MHz Body	54.261	1.936	52.72	1.94	2.92	-0.21	±5
2441.4	Simulated Tissue 2450 MHz Body	53.401	1.945	52.71	1.94	1.31	0.26	±5
2442.5	Simulated Tissue 2450 MHz Body	53.392	1.946	52.71	1.94	1.29	0.31	±5
2450	Simulated Tissue 2450 MHz Body	53.368	1.953	52.7	1.95	1.27	0.15	±5
2462	Simulated Tissue 2450 MHz Body	53.312	1.972	52.68	1.97	1.2	0.1	±5
2475.4	Simulated Tissue 2450 MHz Body	53.105	1.973	52.67	1.99	0.83	-0.85	±5
2475.5	Simulated Tissue 2450 MHz Body	53.099	1.975	52.67	1.99	0.81	-0.75	±5

^{*}Liquid Verification above was performed on 2018-05-08.

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Frequency Liquid		Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Туре	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
5727	Simulated Tissue 5800 MHz Body	48.923	5.796	48.3	5.91	1.29	-1.93	±5
5729	Simulated Tissue 5800 MHz Body	48.611	5.761	48.3	5.92	0.64	-2.69	±5
5745	Simulated Tissue 5800 MHz Body	48.515	5.801	48.27	5.94	0.51	-2.34	±5
5775	Simulated Tissue 5800 MHz Body	48.334	5.875	48.23	5.97	0.22	-1.59	±5
5775.3	Simulated Tissue 5800 MHz Body	48.332	5.876	48.23	5.97	0.21	-1.57	±5
5785	Simulated Tissue 5800 MHz Body	48.274	5.9	48.22	5.98	0.11	-1.34	±5
5800	Simulated Tissue 5800 MHz Body	48.183	5.937	48.2	6	-0.04	-1.05	±5
5821.3	Simulated Tissue 5800 MHz Body	48.055	5.99	48.17	6.02	-0.24	-0.5	±5
5825	Simulated Tissue 5800 MHz Body	48.032	5.999	48.17	6.03	-0.29	-0.51	±5
5843	Simulated Tissue 5800 MHz Body	47.924	6.044	48.14	6.05	-0.45	-0.1	±5

^{*}Liquid Verification above was performed on 2018-05-09.

Frequency Liquid		Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Туре	$\epsilon_{\rm r}$	O' (S/m)	$\epsilon_{\rm r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
2404	Simulated Tissue 2450 MHz Body	54.442	1.871	52.76	1.91	3.19	-2.04	±5
2408	Simulated Tissue 2450 MHz Body	54.418	1.882	52.76	1.91	3.14	-1.47	±5
2412	Simulated Tissue 2450 MHz Body	54.335	1.908	52.75	1.91	3	-0.1	±5
2437	Simulated Tissue 2450 MHz Body	54.256	1.938	52.72	1.94	2.91	-0.1	±5
2441.4	Simulated Tissue 2450 MHz Body	53.351	1.941	52.71	1.94	1.22	0.05	±5
2442.5	Simulated Tissue 2450 MHz Body	52.724	1.945	52.71	1.94	0.03	0.26	±5
2450	Simulated Tissue 2450 MHz Body	52.386	1.955	52.7	1.95	-0.6	0.26	±5
2462	Simulated Tissue 2450 MHz Body	52.096	1.974	52.68	1.97	-1.11	0.2	±5
2475.5	Simulated Tissue 2450 MHz Body	52.037	1.976	52.67	1.99	-1.2	-0.7	±5
2478.8	Simulated Tissue 2450 MHz Body	51.765	1.981	52.66	1.99	-1.7	-0.45	±5

^{*}Liquid Verification above was performed on 2018-05-19.

Frequency	Liquid	Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Туре	$\epsilon_{ m r}$	O' (S/m)	$\epsilon_{\rm r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
5727	Simulated Tissue 5800 MHz Body	49.105	5.813	48.3	5.91	1.67	-1.64	±5
5729	Simulated Tissue 5800 MHz Body	49.09	5.82	48.3	5.92	1.64	-1.69	±5
5745	Simulated Tissue 5800 MHz Body	48.969	5.874	48.27	5.94	1.45	-1.11	±5
5775	Simulated Tissue 5800 MHz Body	48.743	5.975	48.23	5.97	1.06	0.08	±5
5775.3	Simulated Tissue 5800 MHz Body	48.741	5.976	48.23	5.97	1.06	0.1	±5
5785	Simulated Tissue 5800 MHz Body	48.668	6.008	48.22	5.98	0.93	0.47	±5
5800	Simulated Tissue 5800 MHz Body	48.555	6.057	48.2	6	0.74	0.95	±5
5821.3	Simulated Tissue 5800 MHz Body	48.394	6.127	48.17	6.02	0.47	1.78	±5
5825	Simulated Tissue 5800 MHz Body	48.367	6.139	48.17	6.03	0.41	1.81	±5
5843	Simulated Tissue 5800 MHz Body	48.231	6.197	48.14	6.05	0.19	2.43	±5

^{*}Liquid Verification above was performed on 2018-05-20.

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System Accuracy Verification

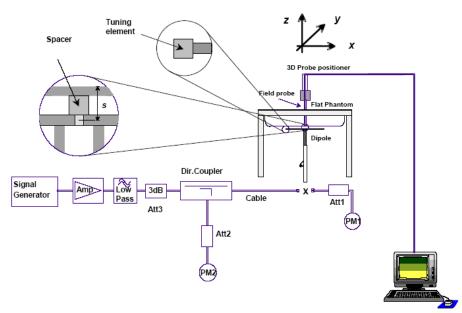
Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

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

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

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)									
2018/05/08	2450 MHz	Dody	100	1g	5.27	52.7	50.6	4.15	±10									
2010/03/00	2430 MITIZ	Body	Воду	100	10g	2.43	24.3	23.9	1.67	±10								
2019/05/00	5000 MH-	D. 1.	100	1g	7.82	78.2	75.4	3.71	±10									
2018/05/09	5800 MHz	Body	100	10g	2.19	21.9	20.9	4.78	±10									
2018/05/19	2450 MH-	Dada	100	1g	5.39	53.9	50.6	6.52	±10									
2018/03/19	2450 MHz	Body	100	10g	2.52	25.2	23.9	5.44	±10									
2019/05/20	5000 MII-	Dada	100	1g	7.72	77.2	75.4	2.39	±10									
2018/05/20	5800 MHz	Body	Body	Body	Body	Body	Body	Body	Body	Body	Body	100	10g	2.08	20.8	20.9	-0.48	±10

^{*}The SAR values above are normalized to 1 Watt forward power.

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SAR SYSTEM VALIDATION DATA

System Performance 2450MHz Body 2018/05/08

DUT: D2450V2; Type: 2450 MHz; Serial: 971

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.953 \text{ S/m}$; $\varepsilon_r = 53.368$; $\rho = 1000 \text{ kg/m}^3$

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Phantom section: Center Section

D ASY5 Configuration:

Probe: EX3DV4 - SN7431; ConvF(7.62, 7.62, 7.62); Calibrated: 2017/9/30;

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

• Electronics: DAE4 Sn772; Calibrated: 2017/10/9

• Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130

Measurement SW: DASY52, Version 52.8 (8);

Area Scan (61x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 9.54 W/kg

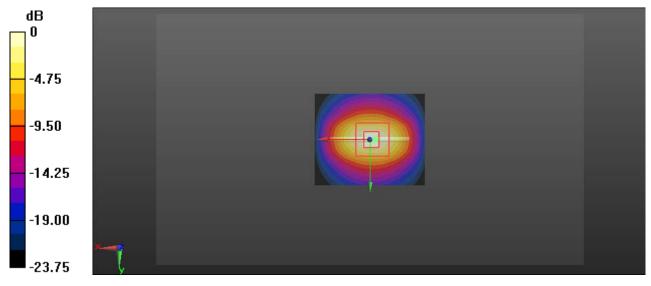
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 55.79 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 11.6 W/kg

SAR(1 g) = 5.27 W/kg; SAR(10 g) = 2.43 W/kg

Maximum value of SAR (measured) = 9.24 W/kg



0 dB = 9.24 W/kg = 9.66 dBW/kg

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System Performance 5800 MHz Body 2018/05/09

DUT: D5GHzV2; Type: 5800 MHz; Serial: SN:1246

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz; $\sigma = 5.937$ S/m; $\varepsilon_r = 48.183$; $\rho = 1000$ kg/m³

Report No.: RDG180409002-20

Phantom section: Center Section

DASY5 Configuration:

• Probe: EX3DV4 - SN7431; ConvF(4.43, 4.43, 4.43); Calibrated: 2017/9/30;

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

• Electronics: DAE4 Sn772; Calibrated: 2017/10/9

• Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130

• Measurement SW: DASY52, Version 52.8 (8);

Area Scan (81x51x1): Interpolated grid: dx=0.6000 mm, dy=0.6000 mm

Maximum value of SAR (interpolated) = 19.2 W/kg

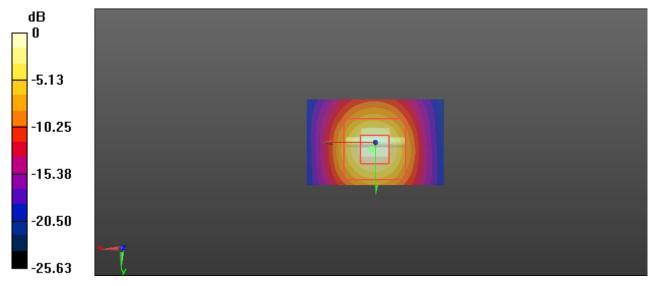
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 36.85 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 29.8 W/kg

SAR(1 g) = 7.82 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 19.4 W/kg



0 dB = 19.4 W/kg = 12.88 dBW/kg

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System Performance 2450MHz Body 2018/05/19

DUT: D2450V2; Type: 2450 MHz; Serial: 971

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.955$ S/m; $\varepsilon_r = 52.386$; $\rho = 1000$ kg/m³

Report No.: RDG180409002-20

Phantom section: Center Section

D ASY5 Configuration:

• Probe: EX3DV4 - SN7431; ConvF(7.62, 7.62, 7.62); Calibrated: 2017/9/30;

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

• Electronics: DAE4 Sn772; Calibrated: 2017/10/9

Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130

• Measurement SW: DASY52, Version 52.8 (8);

Area Scan (61x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 9.71 W/kg

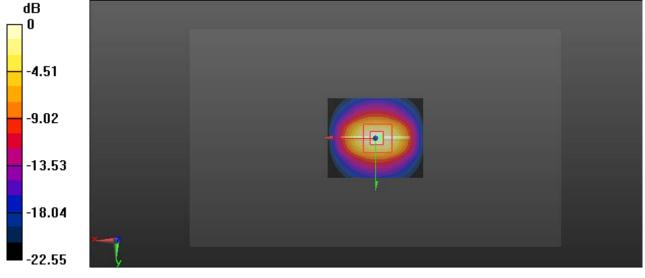
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.37 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 5.39 W/kg; SAR(10 g) = 2.52 W/kg

Maximum value of SAR (measured) = 9.36 W/kg



0 dB = 9.36 W/kg = 9.71 dBW/kg

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System Performance 5800 MHz Body 2018/05/20

DUT: D5GHzV2; Type: 5800 MHz; Serial: SN:1246

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5800 MHz; $\sigma = 6.057 \text{ S/m}$; $\varepsilon_r = 48.555$; $\rho = 1000 \text{ kg/m}^3$

Report No.: RDG180409002-20

Phantom section: Center Section

DASY5 Configuration:

Probe: EX3DV4 - SN7431; ConvF(4.43, 4.43, 4.43); Calibrated: 2017/9/30;

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

• Electronics: DAE4 Sn772; Calibrated: 2017/10/9

Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1130

• Measurement SW: DASY52, Version 52.8 (8);

Area Scan (81x51x1): Interpolated grid: dx=0.6000 mm, dy=0.6000 mm

Maximum value of SAR (interpolated) = 18.7 W/kg

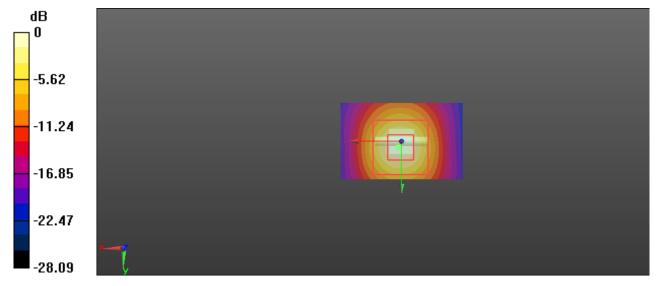
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 35.27 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 29.3 W/kg

SAR(1 g) = 7.72 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 19.1 W/kg = 12.81 dBW/kg

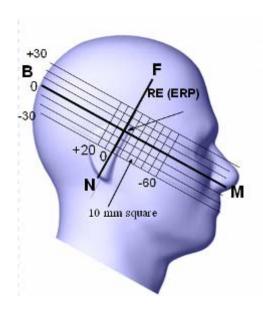
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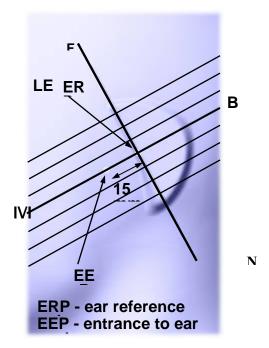
EUT TEST STRATEGY AND METHODOLOGY

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

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

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





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Cheek/Touch Position

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

This test position is established:

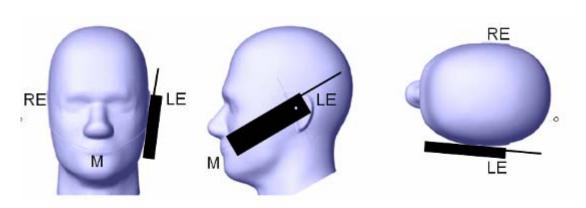
When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

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

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

Cheek / Touch Position



Ear/Tilt Position

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

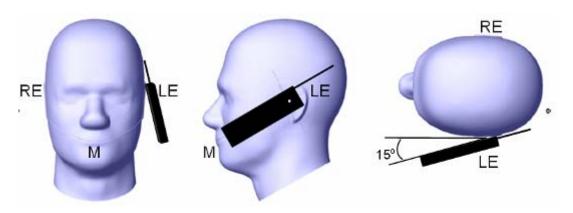
- 1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to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

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

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Ear /Tilt 15° Position

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Test positions for body-worn and other configurations

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

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

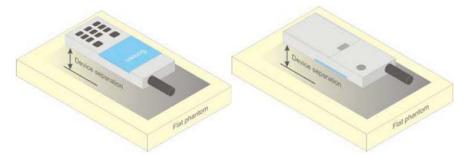


Figure 5 - Test positions for body-worn devices

Test Distance for SAR Evaluation

For Handheld mode(10g Extremity SAR) the EUT(Equipment Under Test) is set directly against the phantom, the test distance is 0mm;

For Close to Body mode(1g Body SAR) the EUT is set 10mm away from the phantom, the test distance is 10mm.

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SAR Evaluation Procedure

The evaluation was performed with the following procedure:

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

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- Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 10 mm x 10 mm, and the SAR distribution was determined by integrated grid of 1.0 mm x 1.0 mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.
- Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:
 - 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

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

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

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CONDUCTED OUTPUT POWER MEASUREMENT

Test Procedure

The RF output of the transmitter was connected to the input port of the Power Meter through Connector.



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Maximum Target Output Power

EUT:

Max Target Power(dBm)								
Mada/Dand	Channel							
Mode/Band	Low	High						
FSK 2.4G	21	21	21					
FSK 5.8G	22	22	22					

Host Platform 1(GL800A):

Max Target Power(dBm)								
Mode/Band	Channel							
Wiode/ Band	Low			Middle	High			
LD 2.4C	CH 1	CH 2	CH 3	CH 23	CH 43	CH 44	CH 45	
LB 2.4G	17.4	19.4	22.4	22.4	22.4	19.4	17.4	
LB 5.8G		24.4		24.4	24.4			
DTS 2.4G(Chain 1)		15		15	15			
DTS 2.4G(Chain 2)		15		15	15			
NII 5.8G(Chain 1)	19			19	19			
NII 5.8G(Chain 2)		17.5		19	19			

Note:

Per KDB 248227 D01, for LB 2.4G,CH 3(CH 43) is selected to evaluate SAR instead of CH 1(CH 45)

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Host Platform 2(GL6D10A):

Max Target Power(dBm)									
Mada/Dand		Channel							
Mode/Band	Low	Middle	High						
LB 2.4G	17.5	22.3	18.1						
LB 5.8G	22	24	24						
WLAN 2.4G Chain 0 (802.11b)	16.9	16.9	16.9						
WLAN 2.4G Chain 0 (802.11g)	16.9	16.9	16.9						
WLAN 2.4G Chain 0 (802.11n HT20)	16.7	16.7	16.7						
WLAN 2.4G 10MHz Chain 0	15.5	15.5	15.5						
WLAN 2.4G Chain 1 (802.11b)	16.9	16.9	16.9						
WLAN 2.4G Chain 1 (802.11g)	16.7	16.7	16.7						
WLAN 2.4G Chain 1 (802.11n HT20)	16.9	16.9	16.9						
WLAN 2.4G 10MHz Chain 1	14.9	14.9	14.9						
WLAN 5.8G Chain 0 (802.11a)	19	19	19						
WLAN 5.8G Chain 0 (802.11n20)	18.5	18.5	18.5						
WLAN 5.8G 10MHz Chain 0	18.5	18.5	18.5						

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Test Results:

FSK:

Mode	Channel	Frequency (MHz)	Duty Cycle	RF Output Power (dBm)	Time-averaged Conducted Output Power (dBm)
	Low	2408		20.49	8.05
FSK 2.4G	Middle	2442.5	5.70%	20.73	8.29
	High	2475.5		20.58	8.14
	Low	5729		21.56	15.91
FSK 5.8G	Middle	5775	27.2%	21.79	16.14
	High	5843		21.72	16.07

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Host Platform 1:

Band	Channel		Frequency (MHz)	Duty Cycle	RF Output Power (dBm)	Time-averaged Conducted Output Power (dBm)
		CH 1	2404		17.23	9.13
	Low	CH 2 2405.7		19.25	11.15	
		CH 3	2407.4		21.92	13.82
LB 2.4G	Middle	CH 23	2441.4	15.5%	22.31	14.21
		CH 43	2475.4		22.36	14.26
	High	CH 44	2477.1		19.29	11.19
		CH 45	2478.8		17.35	9.25
	Low		5727		22.83	14.53
LB 5.8G	Mide	dle	5775.3	14.79%	24.37	16.07
	Hig	şh	5821.3		23.43	15.13

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Mada	Channel	Frequency	RF Output Power (dBm)				
Mode	Channel	(MHz)	Chain 1	Chain 2	Total		
	Low	2412	14.56	14.68	17.63		
DTS 2.4G 10M	Middle	2437	14.75	14.82	17.80		
	High	2462	14.41	14.32	17.38		
	Low	5745	18.44	16.92	20.76		
NII 5.8G 10M	Middle	5785	18.53	18.25	21.40		
	High	5825	18.06	18.24	21.16		

Host Platform 2:

Mode	Channel	Frequency (MHz)	Duty Cycle	RF Output Power (dBm)
	Low 2404	17.48		
LB 2.4G	Middle	2441.4	17.1%	22.29
	High	2478.8		18.07
	Low	5727		21.57
LB 5.8G	Middle	5775.3	16.4%	23.86
	High	5821.3		23.79

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		<i>a.</i> .	Frequency		RF Out	out Power	r (dBm)
Band	Mode	Channel	(MHz)	Data Rate	Chain 0	Chain 1	Total
		Low	2412		16.67	16.36	19.53
	802.11b	Middle	2437	1Mbps	16.88	16.83	19.87
		High	2462		16.55	16.24	19.41
		Low	2412		16.63	16.63	19.64
	WLAN 2.4G 802.11n HT20	Middle	2437	6Mbps	16.86	16.66	19.77
WLAN		High	2462		16.81	16.52	19.68
2.4G		Low	2412		16.35	16.63	19.5
		Middle	2437	MCS0	16.66	16.81	19.75
	11120	High	2462		16.31	16.11	19.22
		Low	2412		14.69	14.39	17.55
	10 MHz	Middle	2437	6Mbps	15.45	14.88	18.18
		High	2462		15.23	14.82	18.04
		Low	5745		18.67	18.61	21.65
	802.11a	Middle	5785	6Mbps	18.95	18.93	21.95
		High	5825		18.39	18.54	21.48
W		Low	5745		18.29	18.62	21.47
WLAN 5.8G	802.11n20	Middle	5785	MCS0	18.22	18.33	21.29
5.80		High	5825		18.31	18.57	21.45
		Low	5745		18.34	18.43	21.4
	10 MHz	Middle	5785	6Mbps	18.25	18.29	21.28
		High	5825		18.19	18.41	21.31

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The EUT Standalone pre-test SAR (Test Date: $2018/05/08 \sim 2018/05/09$):

FSK 2.4G:

EUT	Frequency	Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	2408	/	/	/	/	/	/	
Close to Body-Back (5mm)	2442.5	20.73	21	1.064	0.033	0.04	1*#	
(311111)	2475.5	/	/	/	/	/	/	
	2408	/	/	/	/	/	/	
Close to Body-Right (5mm)	2442.5	20.73	21	1.064	0.143	0.15	2*#	
(311111)	2475.5	/	/	/	/	/	/	
Close to Body -Top (5mm)	2408	/	/	/	/	/	/	
	2442.5	20.73	21	1.064	0.742	0.79	3*#	
(311111)	2475.5	/	/	/	/	/	/	

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FSK 5.8G:

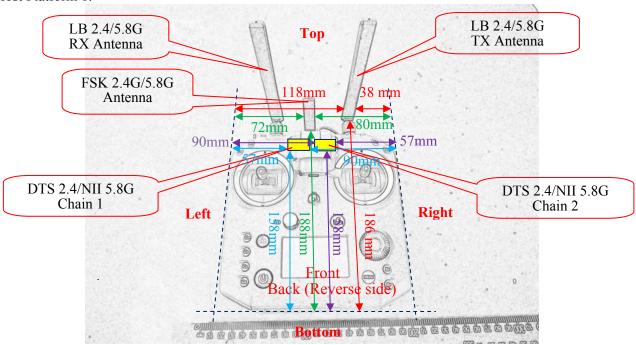
EUT	Frequency	Max. Meas.	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)		Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	5729	/	/	/	/	/	/	
Close to Body-Back (5mm)	5775	21.79	22	1.05	0.059	0.06	4*#	
(311111)	5843	/	/	/	/	/	/	
Cl D. I. D. I.	5729	/	/	/	/	/	/	
Close to Body-Right (5mm)	5775	21.79	22	1.05	0.557	0.58	5*#	
(311111)	5843	/	/	/	/	/	/	
	5729	21.56	22	1.107	1.01	1.12	6*#	
Close to Body -Top (5mm)	5775	21.79	22	1.05	1.09	1.14	7*#	
(Sillili)	5843	21.72	22	1.067	1.08	1.15	8*#	

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SAR EXCLUSION CONSIDERATIONS

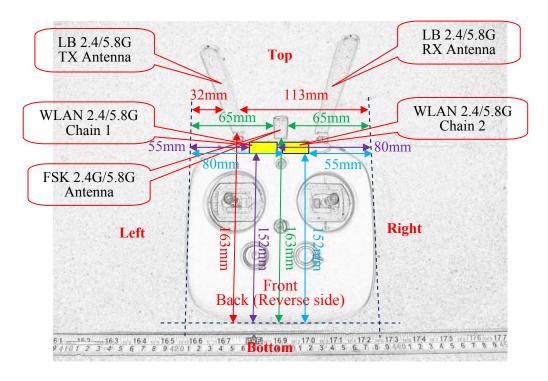
Antennas Location:

Host Platform 1:



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Host Platform 2:



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Antenna Distance To Edge

	Antenna Distance To Edge(mm)										
Mode	Left	Right	Back	Front	Тор	Bottom					
Host Platform 1											
LB 2.4G/5.8G TX Antenna	118	38	70	<5	8	186					
DTS 2.4G/NII 5.8G Chain 1	57	90	55	6	8	158					
DTS 2.4G/NII 5.8G Chain 2	90	57	55	6	8	158					
FSK 2.4G/5.8G Antenna	72	80	15	63	<5	188					
	Hos	t Platform 2	}								
LB 2.4G/5.8G TX Antenna	32	113	50	23	<5	163					
WLAN 2.4G/5.8G Chain 1	55	80	55	<5	7	152					
WLAN 2.4G/5.8G Chain 2	80	55	55	<5	7	152					
FSK 2.4G/5.8G Antenna	65	65	9	68	<5	163					

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SAR test exclusion for the EUT edge considerations

SAR Test Exclusion for the EUT Edges Considerations										
Mode	Left	Right	Back	Front	Тор	Bottom				
Host Platform 1										
LB 2.4G/5.8G TX Antenna	Exclusion	Exclusion	Exclusion	Required	Required	Exclusion				
DTS 2.4G/NII 5.8G Chain 1	Exclusion	Exclusion	Exclusion	Required	Required	Exclusion				
DTS 2.4G/NII 5.8G Chain 2	Exclusion	Exclusion	Exclusion	Required	Required	Exclusion				
FSK 2.4G/5.8G Antenna	Exclusion	Exclusion	Required	Exclusion	Required	Exclusion				
		Host Plat	form 2							
LB 2.4G/5.8G TX Antenna	Exclusion	Exclusion	Exclusion	Required	Required	Exclusion				
WLAN 2.4G/5.8G Chain 1	Exclusion	Exclusion	Exclusion	Required	Required	Exclusion				
WLAN 2.4G/5.8G Chain 2	Exclusion	Exclusion	Exclusion	Required	Required	Exclusion				
FSK 2.4G/5.8G Antenna	Exclusion	Exclusion	Required	Exclusion	Required	Exclusion				

Note:

Required: Per KDB 941225 D07-The distance to Edge is less than 25mm, testing is required. **Exclusion:** Per KDB 941225 D07-The distance to Edge is more than 25 mm, testing is not required.

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SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	21.9-22.8℃	22.7-23.1℃	22.5-23.1℃	22.3-23.6℃
Relative Humidity:	59%	55%	51%	53%
ATM Pressure:	100.7 kPa	101.1 kPa	101.2 kPa	101.1 kPa
Test Date:	2018/05/08	2018/05/09	2018/05/19	2018/05/20

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Testing was performed by Gaochao Gong, Sam Liang, William Ye.

Host Platform 1(Test Date: 2018/05/08~2018/05/09):

LB 2.4G:

EUT	Frequency	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	2407.4	/	/	/	/	/	/	
Handheld-Top (0mm)	2441.4	22.31	22.4	1.021	0.248	0.25	1#	
(Ollilli)	2475.4	/	/	/	/	/	/	
TT 11 11 D	2407.4	/	/	/	/	/	/	
Handheld-Front (0mm)	2441.4	22.31	22.4	1.021	0.072	0.07	2#	
(Ollilli)	2475.4	/	/	/	/	/	/	

EUT	Frequency	Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	2407.4	/	/	/	/	/	/	
Close to Body-Top (10mm)	2441.4	22.31	22.4	1.021	0.419	0.43	3#	
(Tomin)	2475.4	/	/	/	/	/	/	
	2407.4	/	/	/	/	/	/	
Close to Body -Front (10mm)	2441.4	22.31	22.4	1.021	0.055	0.06	4#	
	2475.4	/	/	/	/	/	/	

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LB 5.8G:

EUT	Frequency	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
TT 11 11 T	5727	/	/	/	/	/	/	
Handheld-Top (0mm)	5775.3	24.37	24.4	1.007	0.322	0.32	5#	
(Ollilli)	5821.3	/	/	/	/	/	/	
TT 11 11 D	5727	/	/	/	/	/	/	
Handheld-Front (0mm)	5775.3	24.37	24.4	1.007	0.118	0.12	6#	
(OIIIII)	5821.3	/	/	/	/	/	/	

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EUT	Frequency	Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
C1 + D 1 T	5727	/	/	/	/	/	/	
Close to Body-Top (10mm)	5775.3	24.37	24.4	1.007	0.218	0.22	7#	
(10mm)	5821.3	/	/	/	/	/	/	
CI DI F	5727	/	/	/	/	/	/	
Close to Body -Front (10mm)	5775.3	24.37	24.4	1.007	0.144	0.15	8#	
	5821.3	/	/	/	/	/	/	

Note:

- 1. When the SAR value is less than half of the limit, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

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DTS 2.4G Chain 1:

EUT	Frequency	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
TT 11 11 T	2412	/	/	/	/	/	/	
Handheld-Top (0mm)	2437	14.75	15	1.059	0.076	0.08	9#	
(Omm)	2462	/	/	/	/	/	/	
TT 11 11 D	2412	/	/	/	/	/	/	
Handheld-Front (0mm)	2437	14.75	15	1.059	0.158	0.17	10#	
(OIIIII)	2462	/	/	/	/	/	/	

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EUT	Frequency	Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	2412	/	/	/	/	/	/	
Close to Body-Top (10mm)	2437	14.75	15	1.059	0.127	0.13	11#	
(1011111)	2462	/	/	/	/	/	/	
	2412	/	/	/	/	/	/	
Close to Body -Front (10mm)	2437	14.75	15	1.059	0.149	0.16	12#	
(1011111)	2462	/	/	/	/	/	/	

DTS 2.4G Chain 2:

EUT Position	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	10 g SAR (W/kg), Limit=4.0W/kg			
				Scaled Factor	Meas. SAR	Scaled SAR	Plot
Handheld-Top (0mm)	2412	/	/	/	/	/	/
	2437	14.82	15	1.042	0.035	0.04	13#
	2462	/	/	/	/	/	/
Handheld-Front (0mm)	2412	/	/	/	/	/	/
	2437	14.82	15	1.042	0.207	0.22	14#
	2462	/	/	/	/	/	/

EUT Position	Frequency (MHz)	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	1 g SAR (W/kg), Limit=1.6W/kg			
				Scaled Factor	Meas. SAR	Scaled SAR	Plot
Close to Body-Top (10mm)	2412	/	/	/	/	/	/
	2437	14.82	15	1.042	0.049	0.05	15#
	2462	/	/	/	/	/	/
Close to Body -Front (10mm)	2412	/	/	/	/	/	/
	2437	14.82	15	1.042	0.116	0.12	16#
	2462	/	/	/	/	/	/

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NII 5.8G Chain 1:

EUT	Frequency Meas.		Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
TT 11 11 T	5745	/	/	/	/	/	/	
Handheld-Top (0mm)	5785	18.53	19	1.114	0.319	0.36	17#	
(Omm)	5825	/	/	/	/	/	/	
TT 11 11 D	5745	/	/	/	/	/	/	
Handheld-Front (0mm)	5785	18.53	19	1.114	0.794	0.88	18#	
(Ollilli)	5825	/	/	/	/	/	/	

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EUT	Frequency	Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
C1 + D 1 T	5745	/	/	/	/	/	/	
Close to Body-Top (10mm)	5785	18.53	19	1.114	0.350	0.39	19#	
(10mm)	5825	/	/	/	/	/	/	
	5745	/	/	/	/	/	/	
Close to Body-Front (10mm)	5785	18.53	19	1.114	0.621	0.69	20#	
(1011111)	5825	/	/	/	/	/	/	

NII 5.8G Chain 2:

EUT	Frequency	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	5745	/	/	/	/	/	/	
Handheld-Top (0mm)	5785	18.25	19	1.189	0.252	0.30	21#	
(Ollilli)	5825	/	/	/	/	/	/	
TT 11 11 D	5745	/	/	/	/	/	/	
Handheld-Front (0mm)	5785	18.25	19	1.189	0.883	1.05	22#	
(omm)	5825	/	/	/	/	/	/	

EUT	Max. Frequency Meas.		Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
G1	5745	/	/	/	/	/	/	
Close to Body-Top (10mm)	5785	18.25	19	1.189	0.374	0.44	23#	
(10mm)	5825	/	/	/	/	/	/	
	5745	/	/	/	/	/	/	
Close to Body-Front (10mm)	5785	18.25	19	1.189	0.693	0.82	24#	
(10mm)	5825	/	/	/	/	/	/	

Note:

- 1. When the SAR value is less than half of the limit, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

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FSK 2.4G:

EUT	Frequency Meas.		Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
II II 11 D 1	2408	/	/	/	/	/	/	
Handheld-Back (0mm)	2442.5	20.73	21	1.064	0.168	0.18	25#	
(OIIIII)	2475.5	/	/	/	/	/	/	
Handheld-Back	2408	/	/	/	/	/	/	
(0mm)	2442.5	20.73	21	1.064	< 0.01	0.01	/	
Antenna Fold	2475.5	/	/	/	/	/	/	
	2408	/	/	/	/	/	/	
Handheld-Top (0mm)	2442.5	20.73	21	1.064	1.01	1.07	26#	
(Ollilli)	2475.5	/	/	/	/	/	/	

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EUT	Frequency	Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	2408	/	/	/	/	/	/	
Close to Body-Back (10mm)	2442.5	20.73	21	1.064	0.152	0.16	27#	
(1011111)	2475.5	/	/	/	/	/	/	
Close to Body-Back	2408	/	/	/	/	/	/	
(10mm)	2442.5	20.73	21	1.064	< 0.01	0.01	/	
Antenna Fold	2475.5	/	/	/	/	/	/	
CI DIT	2408	/	/	/	/	/	/	
Close to Body -Top (10mm)	2442.5	20.73	21	1.064	0.577	0.61	28#	
(TOHIIII)	2475.5	/	/	/	/	/	/	

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FSK 5.8G:

EUT	Frequency	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
II 11 11 D 1	5729	/	/	/	/	/	/	
Handheld-Back (0mm)	5775	21.79	22	1.05	0.263	0.28	29#	
(Omm)	5843	/	/	/	/	/	/	
Handheld-Back	5729	/	/	/	/	/	/	
(0mm)	5775	21.79	22	1.05	< 0.01	0.01	/	
Antenna Fold	5843	/	/	/	/	/	/	
TT 11 11 T	5729	/	/	/	/	/	/	
Handheld-Top (0mm)	5775	21.79	22	1.05	1.09	1.14	30#	
(omm)	5843	/	/	/	/	/	/	

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EUT	Frequency	Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	5729	/	/	/	/	/	/	
Close to Body-Back (10mm)	5775	21.79	22	1.05	0.389	0.41	31#	
(10mm)	5843	/	/	/	/	/	/	
Close to Body-Back	5729	/	/	/	/	/	/	
(10mm)	5775	21.79	22	1.05	< 0.01	0.01	/	
Antenna Fold	5843	/	/	/	/	/	/	
Cl. , D. I. T.	5729	/	/	/	/	/	/	
Close to Body -Top (10mm)	5775	21.79	22	1.05	0.446	0.47	32#	
(1011111)	5843	/	/	/	/	/	/	

Note:

- 1. When the SAR value is less than half of the limit, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
- 3. For modes that peak SAR is too low to evaluate, a SAR value 0.01W/kg is considered as their Scaled SAR.

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Host Platform 2(Test Date: 2018/05/19~2018/05/20):

LB 2.4G:

EUT	Frequency Meas.		Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
TT 11 11 T	2404	/	/	/	/	/	/	
Handheld-Top (0mm)	2441.4	22.29	22.3	1.002	0.436	0.44	33#	
(Ollilli)	2478.8	/	/	/	/	/	/	
TT 11 11 D	2404	/	/	/	/	/	/	
Handheld-Front (0mm)	2441.4	22.29	22.3	1.002	0.03	0.03	34#	
(OIIIII)	2478.8	/	/	/	/	/	/	

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EUT	Frequency Meas.		Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
at	2404	/	/	/	/	/	/	
Close to Body-Top (10mm)	2441.4	22.29	22.3	1.002	0.219	0.22	35#	
(1011111)	2478.8	/	/	/	/	/	/	
Cl D. I. E.	2404	/	/	/	/	/	/	
Close to Body -Front (10mm)	2441.4	22.29	22.3	1.002	0.034	0.03	36#	
(1011111)	2478.8	/	/	/	/	/	/	

LB 5.8G:

EUT	Frequency	Max. ency Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	5727	/	/	/	/	/	/	
Handheld-Top (0mm)	5775.3	23.86	24	1.033	0.186	0.19	37#	
(Ollilli)	5821.3	/	/	/	/	/	/	
II 11 11 D	5727	/	/	/	/	/	/	
Handheld-Front (0mm)	5775.3	23.86	24	1.033	0.077	0.08	38#	
(onini)	5821.3	/	/	/	/	/	/	

EUT	Frequency	Max. Meas.			1 g SAR (W/kg), Limit=1.6W/kg			
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
CI DIT	5727	/	/	/	/	/	/	
Close to Body-Top (10mm)	5775.3	23.86	24	1.033	0.089	0.09	39#	
(10IIIII)	5821.3	/	/	/	/	/	/	
Cl D. I. E.	5727	/	/	/	/	/	/	
Close to Body -Front (10mm)	5775.3	23.86	24	1.033	0.061	0.06	40#	
(1011111)	5821.3	/	/	/	/	/	/	

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Note:

- 1. When the SAR value is less than half of the limit, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

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WLAN 2.4G Chain 1:

EUT		Frequency	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	Mode	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
TT 11 11 T	802.11b	2412	/	/	/	/	/	/	
Handheld-Top (0mm)	802.11b	2437	16.88	16.9	1.005	0.176	0.18	41#	
(Ollilli)	802.11b	2462	/	/	/	/	/	/	
	802.11b	2412	/	/	/	/	/	/	
Handheld-Front (0mm)	802.11b	2437	16.88	16.9	1.005	0.379	0.38	42#	
	802.11b	2462	/	/	/	/	/	/	

EUT	Frequency		Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	Mode	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	802.11b	2412	/	/	/	/	/	/	
Close to Body-Top (10mm)	802.11b	2437	16.88	16.9	1.005	0.105	0.11	43#	
(Tollill)	802.11b	2462	/	/	/	/	/	/	
	802.11b	2412	/	/	/	/	/	/	
Close to Body -Front (10mm)	802.11b	2437	16.88	16.9	1.005	0.189	0.19	44#	
	802.11b	2462	/	/	/	/	/	/	

WLAN 2.4G Chain 2:

EUT		Frequency	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/kg				
Position	Mode	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
TT 11 11 T	802.11b	2412	/	/	/	/	/	/	
Handheld-Top (0mm)	802.11b	2437	16.83	16.9	1.016	0.137	0.14	45#	
(omm)	802.11b	2462	/	/	/	/	/	/	
II 11 11 D	802.11b	2412	/	/	/	/	/	/	
Handheld-Front (0mm)	802.11b	2437	16.83	16.9	1.016	0.406	0.41	46#	
	802.11b	2462	/	/	/	/	/	/	

EUT	Mada Frequency		Max. Meas.	Max. Rated	1 g SAR (W/kg), Limit=1.6W/kg				
Position	Mode	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	802.11b	2412	/	/	/	/	/	/	
Close to Body-Top (10mm)	802.11b	2437	16.83	16.9	1.016	0.115	0.12	47#	
(Tollill)	802.11b	2462	/	/	/	/	/	/	
	802.11b	2412	/	/	/	/	/	/	
Close to Body -Front (10mm)	802.11b	2437	16.83	16.9	1.016	0.237	0.24	48#	
	802.11b	2462	/	/	/	/	/	/	

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WLAN 5.8G Chain 1:

EUT		Frequency (MHz)	Max. Meas.	Max. Rated	10 g SA	AR (W/kg)	, Limit=4.0	W/kg
Position	Mode		Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	802.11a	5745	/	/	/	/	/	/
Handheld-Top (0mm)	802.11a	5785	18.95	19	1.012	0.434	0.44	49#
(Omm)	802.11a	5825	/	/	/	/	/	/
TT 11 11 E	802.11a	5745	/	/	/	/	/	/
Handheld-Front (0mm)	802.11a	5785	18.95	19	1.012	0.310	0.31	50#
	802.11a	5825	/	/	/	/	/	/

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EUT		Frequency	Max. Meas.	Max. Rated	1 g SA	R (W/kg),	Limit=1.6V	W/kg
Position	Mode	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
C1 . D 1 T	802.11a	5745	/	/	/	/	/	/
Close to Body-Top (10mm)	802.11a	5785	18.95	19	1.012	0.662	0.67	51#
(Tollill)	802.11a	5825	/	/	/	/	/	/
	802.11a	5745	/	/	/	/	/	/
Close to Body-Front (10mm)	802.11a	5785	18.95	19	1.012	0.418	0.42	52#
	802.11a	5825	/	/	/	/	/	/

WLAN 5.8G Chain 2:

EUT		Frequency (MHz)	Max. Meas.	Max. Rated	10 g SAR (W/kg), Limit=4.0W/k				
Position	Mode		Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	802.11a	5745	/	/	/	/	/	/	
Handheld-Top (0mm)	802.11a	5785	18.93	19	1.016	0.482	0.49	53#	
(Ommi)	802.11a	5825	/	/	/	/	/	/	
TT 11 11 D	802.11a	5745	/	/	/	/	/	/	
Handheld-Front (0mm)	802.11a	5785	18.93	19	1.016	0.452	0.46	54#	
	802.11a	5825	/	/	/	/	/	/	

EUT		Frequency	Max. Meas.	Max. Rated	1 g SA	R (W/kg),	, Limit=1.6\	V/kg
Position	Mode	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	802.11a	5745	/	/	/	/	/	/
Close to Body-Top (10mm)	802.11a	5785	18.93	19	1.016	0.613	0.62	55#
(Tollill)	802.11a	5825	/	/	/	/	/	/
	802.11a	5745	/	/	/	/	/	/
Close to Body-Front (10mm)	802.11a	5785	18.93	19	1.016	0.409	0.42	56#
	802.11a	5825	/	/	/	/	/	/

Note

- 1. When the SAR value is less than half of the limit, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.

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3. KDB 248227 D01-SAR measurement is not required for 2.4 GHz OFDM(801.11g/n20) when the highest reported SAR for DSSS(802.11b) is \leq 1.2 W/kg, and the output power for DSSS is not less than that for OFDM.

FSK 2.4G:

EUT	Frequency	Max. Meas.	Max. Rated	10 g SA	10 g SAR (W/kg), Limit=4.0W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot		
II 11 11 D 1	2408	/	/	/	/	/	/		
Handheld-Back (0mm)	2442.5	20.73	21	1.064	0.182	0.19	57#		
(OIIIII)	2475.5	/	/	/	/	/	/		
Handheld-Back	2408	/	/	/	/	/	/		
(0mm)	2442.5	20.73	21	1.064	0.029	0.03	58#		
Antenna Fold	2475.5	/	/	/	/	/	/		
TT 11 11 T	2408	/	/	/	/	/	/		
Handheld-Top (0mm)	2442.5	20.73	21	1.064	0.849	0.90	59#		
(OIIIII)	2475.5	/	/	/	/	/	/		

EUT	Frequency	Max. Meas.	Max. Rated	1 g SA	1 g SAR (W/kg), Limit=1.6W/kg				
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot		
	2408	/	/	/	/	/	/		
Close to Body-Back (10mm)	2442.5	20.73	21	1.064	0.168	0.18	60#		
(10mm)	2475.5	/	/	/	/	/	/		
Close to Body-Back	2408	/	/	/	/	/	/		
(10mm)	2442.5	20.73	21	1.064	0.019	0.02	61#		
Antenna Fold	2475.5	/	/	/	/	/	/		
CI DIT	2408	/	/	/	/	/	/		
Close to Body -Top (10mm)	2442.5	20.73	21	1.064	0.189	0.20	62#		
(Tollilli)	2475.5	/	/	/	/	/	/		

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FSK 5.8G:

EUT	Frequency	Max. Meas.	Max. Rated	10 g SA	AR (W/kg), Limit=4.0W/kg			
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
II 11 11 D 1	5729	/	/	/	/	/	/	
Handheld-Back (0mm)	5775	21.79	22	1.05	0.218	0.23	63#	
(omm)	5843	/	/	/	/	/	/	
Handheld-Back	5729	/	/	/	/	/	/	
(0mm)	5775	21.79	22	1.05	0.071	0.07	64#	
Antenna Fold	5843	/	/	/	/	/	/	
	5729	/	/	/	/	/	/	
Handheld-Top (0mm)	5775	21.79	22	1.05	0.779	0.82	65#	
(omm)	5843	/	/	/	/	/	/	

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EUT	Frequency	Max. Meas.	Max. Rated	1 g SA	AR (W/kg), Limit=1.6W/kg			
Position	(MHz)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot	
	5729	/	/	/	/	/	/	
Close to Body-Back (10mm)	5775	21.79	22	1.05	0.333	0.35	66#	
(10mm)	5843	/	/	/	/	/	/	
Close to Body-Back	5729	/	/	/	/	/	/	
(10mm)	5775	21.79	22	1.05	0.045	0.05	67#	
Antenna Fold	5843	/	/	/	/	/	/	
	5729	/	/	/	/	/	/	
Close to Body -Top (10mm)	5775	21.79	22	1.05	0.592	0.62	68#	
	5843	/	/	/	/	/	/	

Note:

- 1. When the SAR value is less than half of the limit, testing for other channels are optional.
- 2. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
- 3. For modes that peak SAR is too low to evaluate, a SAR value 0.01W/kg is considered as their Scaled SAR.

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SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

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- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

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

The Highest Measured SAR Configuration in Each Frequency Band

1g Body

SAR probe	Frequency	Eno a (MII-)	ELIT Danitian	Meas. SA	Largest to	
calibration point		EU1 Position	Original	Repeated	Smallest SAR Ratio	
/	/	/	/	/ /		/

10g Extremity

SAR probe Frequency		Erog (MHg)	ELIT Docition	Meas. SA	Largest to		
calibration point			EUT Position	Original	Repeated	Smallest SAR Ratio	
/	/	/	/	/	/	/	

Note:

- 1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.
- 2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
- 3. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements..

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SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Host Platform 1:

Description of Simultaneous Transmit Capabilities					
Transmitter Combination	Simultaneous?				
LB 2.4G + DTS 2.4G Chain 1 (Chain 2)	×				
LB 2.4G + NII 5.8G Chain 1 (Chain 2)	√				
LB 5.8G + DTS 2.4G Chain 1 (Chain 2)	√				
LB 5.8G + NII 5.8G Chain 1 (Chain 2)	×				
FSK 2.4G + DTS 2.4G Chain 1 (Chain 2)	×				
FSK 2.4G + NII 5.8G Chain 1 (Chain 2)	√				
FSK 5.8G + DTS 2.4G Chain 1 (Chain 2)	√				
FSK 5.8G + NII 5.8G Chain 1 (Chain 2)	×				
DTS 2.4G Chain 1 + DTS 2.4G Chain 2	√				
DTS 2.4G Chain 1 + NII 5.8G Chain 2	×				
NII 5.8G Chain 1 + DTS 2.4G Chain 2	×				
NII 5.8G Chain 1 + NII 5.8G Chain 2	√				
LB 2.4G(5.8G) + FSK 2.4G(5.8G)	×				
DTS 2.4G Chain 1 + DTS 2.4G Chain 2 + LB 2.4G	×				
DTS 2.4G Chain 1 + DTS 2.4G Chain 2 + LB 5.8G	√				
DTS 2.4G Chain 1 + DTS 2.4G Chain 2 + FSK 2.4G	×				
DTS 2.4G Chain 1 + DTS 2.4G Chain 2 + FSK 5.8G	√				
NII 5.8G Chain 1 + NII 5.8G Chain 2 + LB 2.4G	V				
NII 5.8G Chain 1 + NII 5.8G Chain 2 + LB 5.8G	×				
NII 5.8G Chain 1 + NII 5.8G Chain 2 + FSK 2.4G	V				
NII 5.8G Chain 1 + NII 5.8G Chain 2 + FSK 5.8G	×				
DTS 2.4G Chain 1 + DTS 2.4G Chain 2 + LB 2.4G(5.8G) + FSK 2.4G(5.8G)	×				
NII 5.8G Chain 1 + NII 5.8G Chain 2 + LB 2.4G(5.8G) + FSK 2.4G(5.8G)	×				

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Host Platform 2:

Description of Simultaneous Transmit Capabilities					
Transmitter Combination	Simultaneous?				
LB 2.4G + WLAN 2.4G Chain 1 (Chain 2)	×				
LB 2.4G + WLAN 5.8G Chain 1 (Chain 2)	$\sqrt{}$				
LB 5.8G + WLAN 2.4G Chain 1 (Chain 2)	√				
LB 5.8G + WLAN 5.8G Chain 1 (Chain 2)	×				
FSK 2.4G + WLAN 2.4G Chain 1 (Chain 2)	×				
FSK 2.4G + WLAN 5.8G Chain 1 (Chain 2)	√				
FSK 5.8G + WLAN 2.4G Chain 1 (Chain 2)	$\sqrt{}$				
FSK 5.8G + WLAN 5.8G Chain 1 (Chain 2)	×				
WLAN 2.4G Chain 1 + WLAN 2.4G Chain 2	$\sqrt{}$				
WLAN 2.4G Chain 1 + WLAN 5.8G Chain 2	×				
WLAN 5.8G Chain 1 + WLAN 2.4G Chain 2	×				
WLAN 5.8G Chain 1 + WLAN 5.8G Chain 2	√				
LB 2.4G(5.8G) + FSK 2.4G(5.8G)	×				
WLAN 2.4G Chain 1 + WLAN 2.4G Chain 2 + LB 2.4G	×				
WLAN 2.4G Chain 1 + WLAN 2.4G Chain 2 + LB 5.8G	$\sqrt{}$				
WLAN 2.4G Chain 1 + WLAN 2.4G Chain 2 + FSK 2.4G	×				
WLAN 2.4G Chain 1 + WLAN 2.4G Chain 2 + FSK 5.8G	$\sqrt{}$				
WLAN 5.8G Chain 1 + WLAN 5.8G Chain 2 + LB 2.4G	$\sqrt{}$				
WLAN 5.8G Chain 1 + WLAN 5.8G Chain 2 + LB 5.8G	×				
WLAN 5.8G Chain 1 + WLAN 5.8G Chain 2 + FSK 2.4G	$\sqrt{}$				
WLAN 5.8G Chain 1 + WLAN 5.8G Chain 2 + FSK 5.8G	×				
WLAN 2.4G Chain 1 + WLAN 2.4G Chain 2 + LB 2.4G(5.8G) + FSK 2.4G(5.8G)	×				
WLAN 5.8G Chain 1 + WLAN 5.8G Chain 2 + LB 2.4G(5.8G) + FSK 2.4G(5.8G)	×				

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Simultaneous SAR test exclusion considerations:

Host Platform 1:

10g Extremity SAR:

Mode(SAR1+SAR2+	Position	Repo	rted SAR(V	Σ SAR < 4.0 W/kg	
SAR3)	1 00101011	SAR1	SAR2	SAR3	
DTS 2.4G Chain 1 + DTS	Handheld-Top	0.08	0.04	0.32	0.44
2.4G Chain 2 + LB 5.8G	Handheld-Front	0.17	0.22	0.12	0.51
DTS 2.4G Chain 1 + DTS 2.4G Chain 2 + FSK 5.8G	Handheld-Top	0.08	0.04	1.14	1.26
NII 5.8G Chain 1 + NII	Handheld-Top	0.36	0.30	0.25	0.91
5.8G Chain 2 + LB 2.4G	Handheld-Front	0.88	1.05	0.07	2.00
NII 5.8G Chain 1 + NII 5.8G Chain 2 + FSK 2.4G	Handheld-Top	0.36	0.30	1.07	1.73

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Conclusion:

Sum of SAR: Σ SAR < 4.0 W/kg, simultaneous transmission SAR with Volume Scans is not required.

1g Body SAR:

Mode(SAR1+SAR2+	Position	Repo	rted SAR(W	ΣSAR < 1.6	
SAR3)	1 00101011	SAR1	SAR2	SAR3	W/kg
DTS 2.4G Chain 1 + DTS	Close to Body-Top	0.13	0.05	0.22	0.40
2.4G Chain 2 + LB 5.8G	Close to Body-Front	0.16	0.12	0.15	0.43
DTS 2.4G Chain 1 + DTS 2.4G Chain 2 + FSK 5.8G	Close to Body-Top	0.13	0.05	0.47	0.65
NII 5.8G Chain 1 + NII 5.8G Chain 2 + LB 2.4G	Close to Body-Top	0.39	0.44	0.43	1.26
	Close to Body-Front	0.69	0.82	0.06	1.57
NII 5.8G Chain 1 + NII 5.8G Chain 2 + FSK 2.4G	Close to Body-Top	0.39	0.44	0.61	1.44

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Host Platform 2:

10g Extremity SAR:

Mode(SAR1+SAR2+ SAR3)	Position	Repo	orted SAR(V	Σ SAR < 4.0 W/kg	
	1 00.000	SAR1	SAR2	SAR3	
WLAN 2.4G Chain 1 + WLAN	Handheld-Top	0.18	0.14	0.19	0.51
2.4G Chain 2 + LB 5.8G	Handheld-Front	0.38	0.41	0.08	0.87
WLAN 2.4G Chain 1 + WLAN 2.4G Chain 2 + FSK 5.8G	Handheld-Top	0.18	0.14	0.82	1.14
WLAN 5.8G Chain 1 + WLAN	Handheld-Top	0.44	0.49	0.44	1.37
5.8G Chain 2 + LB 2.4G	Handheld-Front	0.31	0.46	0.03	0.8
WLAN 5.8G Chain 1 + WLAN 5.8G Chain 2 + FSK 2.4G	Handheld-Top	0.44	0.49	0.90	1.83

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Conclusion:

Sum of SAR: Σ SAR < 4.0 W/kg, simultaneous transmission SAR with Volume Scans is not required.

1g Body SAR:

Mode(SAR1+SAR2+ SAR3)	Position	Repo	rted SAR(W	ΣSAR < 1.6	
2.1040(8.1161 / 8.1162 / 8.116)	1 00.000	SAR1	SAR2	SAR3	W/kg
WLAN 2.4G Chain 1 + WLAN	Close to Body-Top	0.11	0.12	0.09	0.32
2.4G Chain 2 + LB 5.8G	Close to Body-Front	0.19	0.24	0.06	0.49
WLAN 2.4G Chain 1 + WLAN 2.4G Chain 2 + FSK 5.8G	Close to Body-Top	0.11	0.12	0.62	0.85
WLAN 5.8G Chain 1 + WLAN	Close to Body-Top	0.67	0.62	0.22	1.51
5.8G Chain 2 + LB 2.4G	Close to Body-Front	0.42	0.42	0.03	0.87
WLAN 5.8G Chain 1 + WLAN 5.8G Chain 2 + FSK 2.4G	Close to Body-Top	0.67	0.62	0.20	1.49

Conclusion:

Sum of SAR: Σ SAR < 1.6 W/kg, simultaneous transmission SAR with Volume Scans is **not required**.

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Bay Area Compliance Laboratories Corp. (Dongguan)	Report No.: RDG180409002-20
SAR Plots	
Please Refer to the Attachment.	

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APPENDIX A MEASUREMENT UNCERTAINTY

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

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Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
		Measuremer	it system				
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Linearity	4.7	R	√3	1	1	2.7	2.7
Detection limits	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
		Test sample	erelated				
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	√3	1	1	2.9	2.9
		Phantom an	d set-up				
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.3	23.9

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Measurement uncertainty evaluation for IEC62209-2 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
		Measuremer	nt system				
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Linearity	4.7	R	√3	1	1	2.7	2.7
Modulation Response	0.0	R	√3	1	1	0.0	0.0
Detection limits	1.0	R	√3	1	1	0.6	0.6
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
		Test sample	erelated				
Device holder Uncertainty	6.3	N	1	1	1	6.3	6.3
Test sample positioning	2.8	Ν	1	1	1	2.8	2.8
Power scaling	4.5	R	√3	1	1	2.6	2.6
Drift of output power	5.0	R	√3	1	1	2.9	2.9
		Phantom an	d set-up				
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.1	0.9
Liquid conductivity (meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity (meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Temp. unc Conductivity	1.7	R	√3	0.78	0.71	0.8	0.7
Temp. unc Permittivity	0.3	R	√3	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				12.2	12.1
Expanded uncertainty 95 % confidence interval)						24.5	24.2

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APPENDIX C EUT TEST POSITION PHOTOS

Please Refer to the Attachment.

***** END OF REPORT *****

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