

SAR EVALUATION REPORT

For

SACO TRADING LLC

2170 NW 87th Ave, Doral, FL 33172 United States

FCC ID: 2AJMFAFFIXT737

Report Type: Original Report		Product Type: Tablet PC
Report Number:	RSZ160902003-2	20
Report Date:	2016-10-24	/
Reviewed By:	Jesse Huang Manager	Jesse Hump
Prepared By:		5175000 8934268

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

Bay Area Compliance Laboratories Corp. (Kunshan)

Report No: RSZ160902003-20

	A	ttestation of Test Results					
	Company Name	SACO TRADING LLC					
	EUT Description	Tablet PC					
EUT	Tested Model	AFFIX T737					
Information	FCC ID	2AJMFAFFIXT737					
	Serial Number	16090200321					
	Test Date	2016-10-08 ~ 2016-10-16					
MOI		Max. SAR Level(s) Reported(W/Kg)	Limit (W/Kg)				
	1g Head SAR	0.200					
GSM 850		0.641(Body Worn)	-				
	1g Body SAR	0.923(Hotspot)	-				
	1g Head SAR	0.023	1				
PCS 1900		0.194(Body Worn)					
	1g Body SAR	0.225(Hotspot)					
WCDMA Dard 5	1g Head SAR	0.209					
WCDMA Band 5	1g Body SAR	1.187					
	1g Head SAR	0.015					
WCDMA Band 4	1g Body SAR	0.455	1.6				
WCDMA Band 2	1g Head SAR	0.031					
	1g Body SAR	0.240					
LTE Band 2	1g Head SAR	0.013					
LIE Dallu 2	1g Body SAR	0.190					
LTE Band 4	1g Head SAR	0.035					
LTE Dallu 4	1g Body SAR	0.470					
	1g Head SAR	0.582					
Simultaneous	1g Body SAR	1.560					
	1g Body SAR	1.560(Hotspot)					
ANSI / IEEE C95.1 : 2005IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fileds,3 kHz to 300 GHz.ANSI / IEEE C95.3 : 2002IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to SuchFields,100 kHz—300 GHz.FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devicesIEEE 1528:2013IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement TechniquesIEC 62209-2:2010 Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices-Human models, instrumentation, and procedures-Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)							

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KDB proceduresKDB 447498 D01 General RF Exposure Guidance v06KDB 648474 D04 Handset SAR v01r03KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04KDB 865664 D02 RF Exposure Reporting v01r02KDB 941225 D01 3G SAR Procedures v03r01KDB 941225 D05 SAR for LTE Devices v02r04KDB 941225 D06 Hotspot Mode v02r01KDB 616217 D04 SAR for laptop and tablets v01r02

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 ANSI/IEEE Standards and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RSZ160902003-20	Original Report	2016-10-24
	I		-

EUT DESCRIPTION

This report has been prepared on behalf of *SACO TRADING LLC* and their product *Tablet PC*, Model: *AFFIX T737*, FCC ID: 2AJMFAFFIXT737 or the EUT (Equipment under Test) as referred to in the rest of this report.

Technical Specification

Device Type:	Portable
Exposure Category:	Population / Uncontrolled
Antenna Type(s):	Internal Antenna
Body-Worn Accessories:	Headset
Face-Head Accessories:	None
	GSM Voice, GPRS Data,
	WCDMA(R99, HSUPA, HSDPA, DC-HSDPA, HSPA+)
Operation Mode :	FDD-LTE
	WLAN
	Bluetooth
Frequency Band:	GSM 850: 824-849 MHz(TX); 869-894 MHz(RX) PCS 1900: 1850-1910 MHz(TX); 1930-1990 MHz(RX) WCDMA Band 5: 824-849 MHz(TX); 869-894 MHz(RX) WCDMA Band 4: 1710-1755 MHz(TX); 2110-2155 MHz(RX) WCDMA Band 2: 1850-1910 MHz(TX); 1930-1990 MHz(RX) LTE Band 2: 1850-1910 MHz(TX) ; 1930-1990 MHz(RX) LTE Band 4: 1710-1755 MHz(TX) ; 2110-2155 MHz(RX) WLAN: 2412 MHz-2472 MHz Bluetooth : 2402 MHz-2480 MHz
Conducted RF Power:	GSM 850 : 32.97 dBm PCS 1900: 29.69 dBm WCDMA Band 5: 22.25 dBm WCDMA Band 4: 21.63 dBm WCDMA Band 2: 21.92 dBm LTE Band 2: 23.04 dBm LTE Band 4: 23.02 dBm WLAN: 9.36 dBm Bluetooth(BDR/EDR): 3.99 dBm BLE:-3.19 dBm
Dimensions (L*W*H):	19.1 cm (L) \times 11.1 cm (W) \times 1.1 cm (H)
Power Source:	3.7 VDC Rechargeable Battery
Normal Operation:	Head and Body-worn

Note: No proximity sensor is available with this device

REFERENCE, STANDARDS, AND GUILDELINES

FCC:

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

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.

SAR Limits

FCC 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 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	(Occupational / Controlled Exposure				
	Environment)	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 1.6W/kg (FCC) & 2 W/kg (CE) applied to the EUT.

FACILITIES

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on Chenghu Road,Kunshan Development Zone No.248,Kunshan, Jiangsu, China.

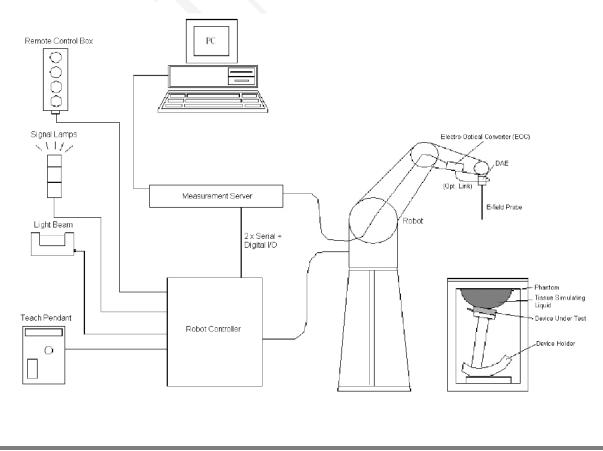
DESCRIPTION OF TEST SYSTEM

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:



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

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



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.

EX3DV4 E-Field Probes

Frequency	10 MHz to $>$ 6 GHz Linearity: \pm 0.2 dB (30 MHz to 6 GHz)
Directivity	\pm 0.3 dB in TSL (rotation around probe axis) \pm 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 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

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region, where shell thickness

increases to 6 mm). The phantom has three measurement areas: _Left hand

- Right hand
- _ Flat phantom

The phantom table for the DASY systems based on the TX90XL and RX160L robots have the size of $100 \times 50 \times 85$ cm (L x W x H).

The phantom table for the compact DASY systems based on the RX60L robot have the size of $100 \times 75 \times 91$ cm (L x W x H); these tables are reinforced for mounting of the robot onto the table.

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)

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 robots TX90XL from Staubli SA (France). The TX robot family is the successor of the well known RX robot family and 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)

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.

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/m^3 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.

Frequency	Head	Tissue	Body	y Tissue
(MHz)	(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

Recommended Tissue Dielectric Parameters for Head and Body

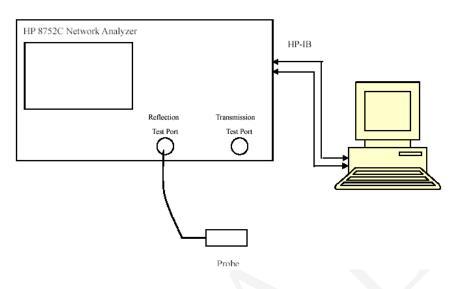
EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

Equipment	Model	S/N	Calibration Date	Calibration Due Date
Robot	RX90	D03688	N/A	N/A
DASY5 Test Software	DASY52.8	N/A	N/A	N/A
DASY5 Measurement Server	DASY5 4.5.12	1567	N/A	N/A
Data Acquisition Electronics	DAE3	379	2016/10/4	2017/10/3
E-Field Probe	EX3DV4	7431	2016/10/4	2017/10/3
Dipole, 835 MHz	D835V2	453	2015/08/17	2018/08/16
Dipole, 1750 MHz	D1750V2	1140	2015/07/09	2018/07/08
Dipole,1900 MHz	D1900V2	5d206	2015/07/14	2018/07/13
R&S, universal Radio Communication Tester	CMU200	110605	2015/11/12	2016/11/11
Wideband Radio Communication Tester	CMW500	1201.002K50-116218-UY	2016/09/08	2017/09/07
Mounting Device	N/A	BJPCTC0152	N/A	N/A
Twin SAM	Twin SAM V5.0	1412	N/A	N/A
Triple Flat Phantom 5.1C	QD 000 P51 CA	1130	N/A	N/A
Simulated Tissue 835 MHz Head	TS-835-Н	1610083501	Each Time	/
Simulated Tissue 835 MHz Body	TS-835-В	1610083502	Each Time	/
Simulated Tissue 1750 MHz Head	ТЅ-1750-Н	1610175001	Each Time	/
Simulated Tissue 1750 MHz Body	TS-1750-B	1610175002	Each Time	/
Simulated Tissue 1900 MHz Head	ТЅ-1900-Н	1610190001	Each Time	/
Simulated Tissue 1900 MHz Body	TS-1900-B	1610190002	Each Time	/
Network Analyzer	8753C	2828A00170	2016/10/06	2017/10/05
Dielectric probe kit	85070B	US33020324	2016/06/13	2017/06/12
Signal Generator	E4421B	US38440505	2015/11/12	2016/11/11
Power Meter	E4419B	MY41291878	2016/01/08	2017/01/07
Power Amplifier	5205PE	1015	N/A	N/A
Directional Coupler	488Z	N/A	N/A	N/A
Attenuator	20dB, 100W	N/A	N/A	N/A

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Engagonar	Liquid Tuno	Liquid Parameter		Target Value		Delta (%)		Tolerance
Frequency	Liquid Type	£ _r	0 (S/m)	8r	0 (S/m)	$\Delta \epsilon_{\rm r}$	ΔƠ (S/m)	(%)
1850.2	Simulated Tissue 1900 MHz Head	39.058	1.404	40	1.4	-2.355	0.286	±5
1852.4	Simulated Tissue 1900 MHz Head	39.034	1.382	40	1.4	-2.415	-1.286	±5
1860	Simulated Tissue 1900 MHz Head	39.003	1.389	40	1.4	-2.493	-0.786	±5
1880	Simulated Tissue 1900 MHz Head	38.932	1.407	40	1.4	-2.67	0.5	±5
1900	Simulated Tissue 1900 MHz Head	38.891	1.451	40	1.4	-2.773	3.643	±5
1907.6	Simulated Tissue 1900 MHz Head	38.779	1.44	40	1.4	-3.052	2.857	±5
1909.8	Simulated Tissue 1900 MHz Head	38.819	1.453	40	1.4	-2.952	3.786	±5

*Liquid Verification above was performed on 2016/10/08.

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Engagonar	Liquid Tuno	Liquid Parameter		Target Value		Delta (%)		Tolerance
Frequency	Liquid Type	£ _r	0' (S/m)	8r	0' (S/m)	$\Delta \epsilon_{ m r}$	ΔƠ (S/m)	(%)
1712.4	Simulated Tissue 1750 MHz Head	40.439	1.358	40.8	1.37	-0.885	-0.876	±5
1720	Simulated Tissue 1750 MHz Head	40.027	1.355	40.8	1.37	-1.895	-1.095	±5
1732.5	Simulated Tissue 1750 MHz Head	40.425	1.366	40.8	1.37	-0.915	-0.147	±5
1732.6	Simulated Tissue 1750 MHz Head	40.427	1.368	40.8	1.37	-0.914	-0.146	±5
1745	Simulated Tissue 1750 MHz Head	40.010	1.359	40.8	1.37	-1.936	-0.803	±5
1750	Simulated Tissue 1750 MHz Head	40.372	1.394	40.8	1.37	-1.049	1.752	±5
1752.6	Simulated Tissue 1750 MHz Head	40.289	1.375	40.8	1.37	-1.252	0.365	±5

*Liquid Verification above was performed on 2016/10/10.

E	Lieuid Turc	Liquid Parameter		Target Value		Delta (%)		Tolerance
Frequency	Liquid Type	£ _r	0 (S/m)	8r	0 (S/m)	$\Delta \epsilon_{ m r}$	ΔƠ (S/m)	(%)
1850.2	Simulated Tissue 1900 MHz Body	53.437	1.46	53.3	1.52	0.257	-3.947	±5
1852.4	Simulated Tissue 1900 MHz Body	53.445	1.468	53.3	1.52	0.272	-3.421	±5
1860	Simulated Tissue 1900 MHz Body	53.392	1.456	53.3	1.52	0.173	-4.211	±5
1880	Simulated Tissue 1900 MHz Body	53.321	1.493	53.3	1.52	0.039	-1.776	±5
1900	Simulated Tissue 1900 MHz Body	53.302	1.509	53.3	1.52	0.004	-0.724	±5
1907.6	Simulated Tissue 1900 MHz Body	53.244	1.513	53.3	1.52	-0.105	-0.461	±5
1909.8	Simulated Tissue 1900 MHz Body	53.221	1.504	53.3	1.52	-0.148	-1.053	±5

*Liquid Verification above was performed on 2016/10/12.

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E	Liquid Tuno	Liquid Parameter		Target Value		Delta (%)		Tolerance
Frequency	Frequency Liquid Type		0' (S/m)	8r	0' (S/m)	$\Delta \epsilon_r$	ΔƠ (S/m)	(%)
824.2	Simulated Tissue 835 MHz Head	42.907	0.873	41.5	0.9	3.39	-3	±5
826.4	Simulated Tissue 835 MHz Head	42.88	0.893	41.5	0.9	3.325	-0.778	±5
835	Simulated Tissue 835 MHz Head	42.924	0.877	41.5	0.9	3.431	-2.556	±5
836.6	Simulated Tissue 835 MHz Head	42.881	0.895	41.5	0.9	3.328	-0.556	±5
846.6	Simulated Tissue 835 MHz Head	42.801	0.912	41.5	0.9	3.135	1.333	±5
848.8	Simulated Tissue 835 MHz Head	42.688	0.907	41.5	0.9	2.863	0.778	±5

*Liquid Verification above was performed on 2016/10/15.

Erequency	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance
Frequency	Liquid Type	8r	0' (S/m)	٤ _r	0' (S/m)	$\Delta \epsilon_{ m r}$	ΔƠ (S/m)	(%)
1712.4	Simulated Tissue 1750 MHz Body	53.438	1.459	53.3	1.52	0.259	-4.013	±5
1720	Simulated Tissue 1750 MHz Body	53.426	1.452	53.3	1.52	0.236	-4.474	±5
1732.5	Simulated Tissue 1750 MHz Body	53.315	1.491	53.3	1.52	0.028	-1.908	±5
1732.6	Simulated Tissue 1750 MHz Body	53.315	1.491	53.3	1.52	0.028	-1.908	±5
1745	Simulated Tissue 1750 MHz Body	53.289	1.495	53.3	1.52	-0.021	-1.645	±5
1750	Simulated Tissue 1750 MHz Body	53.225	1.499	53.3	1.52	-0.141	-1.382	±5
1752.6	52.6 Simulated Tissue 1750 MHz Body		1.509	53.3	1.52	-0.176	-0.724	±5
*Liquid Verifi	cation above was performed on 2016/	/10/15.						

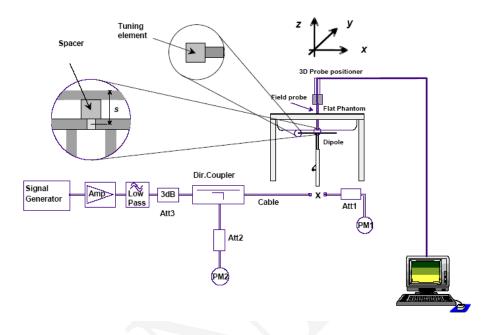
Encanonar	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance
Frequency	quency Enquiu Type		0' (S/m)	٤ _r	0' (S/m)	$\Delta \epsilon_r$	ΔƠ (S/m)	(%)
824.2	Simulated Tissue 835 MHz Body	55.181	0.949	55.2	0.97	-0.034	-2.165	±5
826.4	Simulated Tissue 835 MHz Body	55.12	0.959	55.2	0.97	-0.145	-1.134	±5
835	Simulated Tissue 835 MHz Body	55.134	0.968	55.2	0.97	-0.12	-0.206	±5
836.6	Simulated Tissue 835 MHz Body	55.122	0.96	55.2	0.97	-0.141	-1.031	±5
846.6	Simulated Tissue 835 MHz Body	54.999	0.97	55.2	0.97	-0.364	0	±5
848.8	Simulated Tissue 835 MHz Body	54.953	0.99	55.2	0.97	-0.447	2.062	±5

*Liquid Verification above was performed on 2016/10/16.

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.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Measured SAR (W/Kg)		Target Value	Delta (%)	Tolerance (%)
2016/10/8	1900	1900MHz Head	1g	41.1	40.7	0.98	±10
2016/10/10	1750	1750MHz Head	1g	37.2	36.8	1.09	±10
2016/10/12	1900	1900MHz Body	1g	42.7	40.8	4.66	±10
2016/10/15	1750	1750MHz Body	1g	38.8	37.2	4.30	±10
2016/10/15	835	835MHz Head	1g	9.67	9.43	2.55	±10
2016/10/16	835	835MHz Body	1g	9.92	9.55	3.87	±10

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

SAR SYSTEM VALIDATION DATA

Test Laboratory: Bay Area Compliance Labs Corp.(Kunshan)

System Performance 835 MHz Head

DUT: D835V2; Type: 835 MHz; Serial: 453

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; $\sigma = 0.877$ S/m; $\epsilon_r = 42.924$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

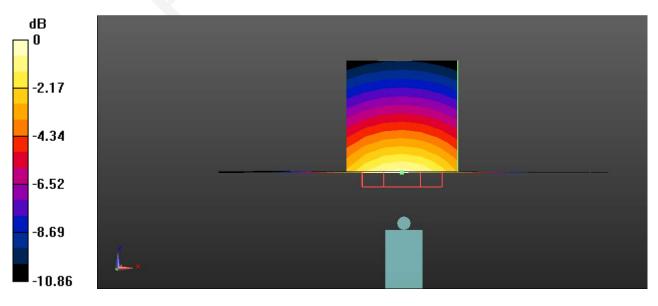
DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(9.84, 9.84, 9.84); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 835 MHz Head /Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 12.1 W/kg

System Performance 835 MHz Head /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 102.3 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 15.6 W/kg SAR(1 g) = 9.67 W/kg; SAR(10 g) = 6.24 W/kgMaximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg = 10.61 dBW/kg

System Performance 835 MHz Body

D UT: D835V2; Type: 835 MHz; Serial: 453

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1 Medium parameters used: f = 835 MHz; $\sigma = 0.968$ S/m; $\epsilon_r = 55.134$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

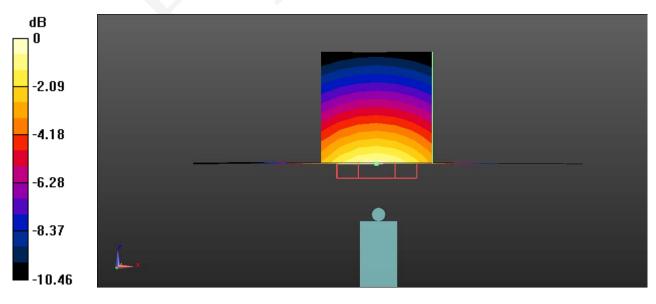
DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(9.89, 9.89, 9.89); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 835 MHz Body /Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 12.4 W/kg

System Performance 835 MHz Body /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.2 V/m; Power Drift = 0.07 dBPeak SAR (extrapolated) = 16.7 W/kgSAR(1 g) = 9.92 W/kg; SAR(10 g) = 6.44 W/kgMaximum value of SAR (measured) = 11.9 W/kg



0 dB = 11.9 W/kg = 10.76 dBW/kg

System Performance 1750 MHz Head

DUT: D1750V2; Type: 1750 MHz; Serial: 1140

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1750 MHz; $\sigma = 1.394$ S/m; $\varepsilon_r = 40.372$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.47, 8.47, 8.47); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 1750 MHz Head /Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 44.5 W/kg

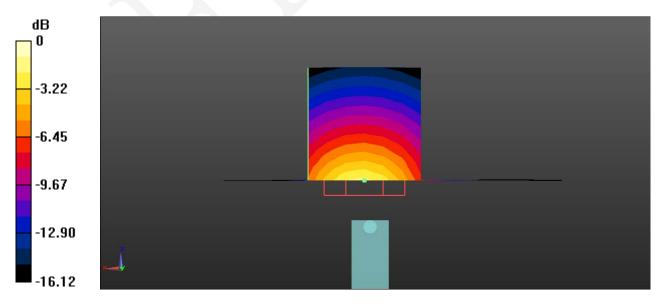
System Performance 1750 MHz Head /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 160.3 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 69.3 W/kg

SAR(1 g) = 37.2 W/kg; SAR(10 g) = 19.4 W/kg

Maximum value of SAR (measured) = 41.7 W/kg



0 dB = 41.7 W/kg = 16.20 dBW/kg

System Performance 1750 MHz Body

DUT: D1750V2; Type: 1750 MHz; Serial: 1140

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1750 MHz; $\sigma = 1.499$ S/m; $\varepsilon_r = 53.225$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.24, 8.24, 8.24); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 1750 MHz Body /Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 45.5 W/kg

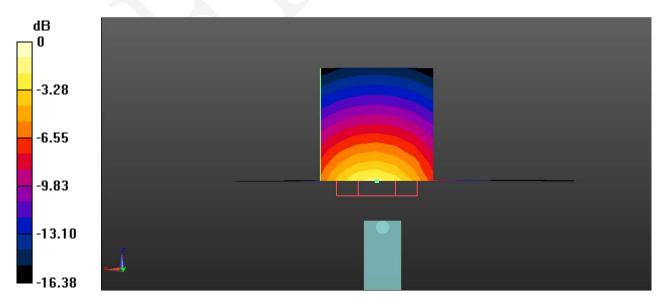
System Performance 1750 MHz Body /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 165.3 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 74.5 W/kg

SAR(1 g) = 38.8 W/kg; SAR(10 g) = 20.7 W/kg

Maximum value of SAR (measured) = 46.2 W/kg



0 dB = 46.2 W/kg = 16.65 dBW/kg

System Performance 1900 MHz Head

DUT: D1900V2; Type: 1900 MHz; Serial: 5d206

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; $\sigma = 1.451$ S/m; $\epsilon_r = 39.891$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

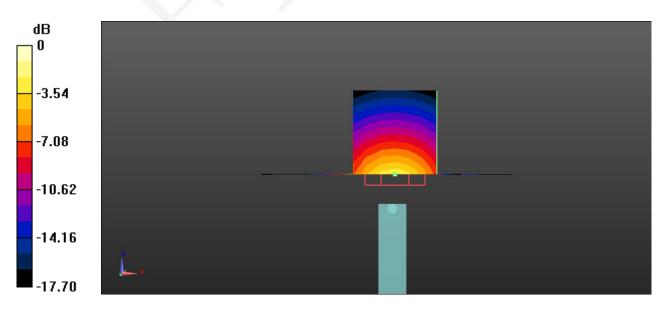
DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.18, 8.18, 8.18); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 1900 MHz Head /Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 49.5 W/kg

System Performance 1900 MHz Head /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 175.2 V/m; Power Drift = -0.04 dBPeak SAR (extrapolated) = 72.1 W/kgSAR(1 g) = 41.1 W/kg; SAR(10 g) = 22.3 W/kgMaximum value of SAR (measured) = 47.4 W/kg



0 dB = 47.4 W/kg = 16.76 dBW/kg

System Performance 1900 MHz Body

DUT: D1900V2; Type: 1900 MHz; Serial: 5d206

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1 Medium parameters used: f = 1900 MHz; σ = 1.509 S/m; ϵ_r = 53.302; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(7.98, 7.98, 7.98); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

System Performance 1900 MHz Body /Area Scan (61x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 50.9 W/kg

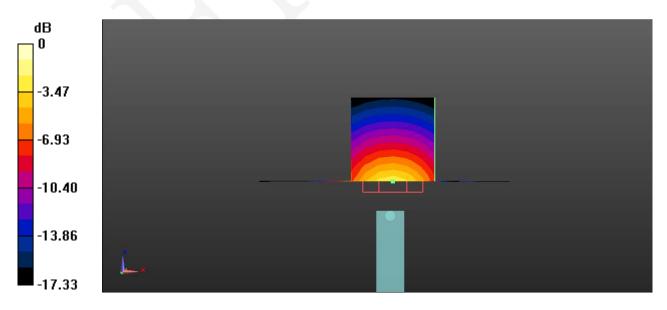
System Performance 1900 MHz Body /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 177.1 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 81.1 W/kg

SAR(1 g) = 42.7 W/kg; SAR(10 g) = 22.4 W/kg

Maximum value of SAR (measured) = 48.4 W/kg



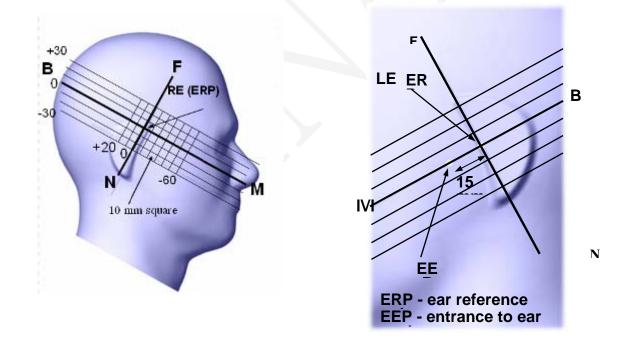
0 dB = 48.4 W/kg = 16.85 dBW/kg

EUT TEST STRATEGY AND METHODOLOGY

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

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¹/₄ 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:



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.

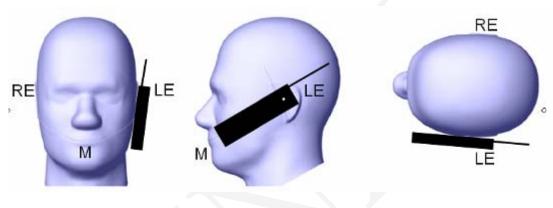
This test position is established:

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

(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.

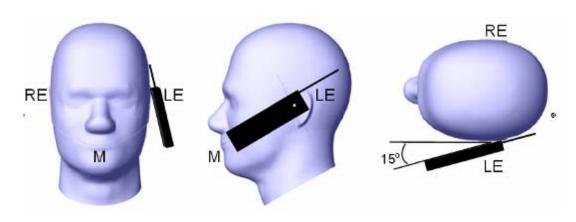
2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset 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.

Bay Area Compliance Laboratories Corp. (Kunshan)

Report No: RSZ160902003-20

Ear /Tilt 15° Position



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.

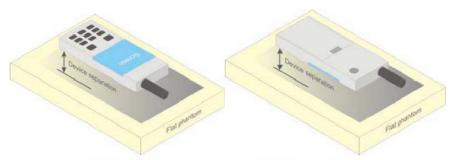


Figure 5 - Test positions for body-worn devices

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.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

2) The maximum 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 $(10 \times 10 \times 10)$ 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.

Test methodology

KDB 447498 D01 General RF Exposure Guidance v06 KDB 648474 D04 Handset SAR v01r03 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 941225 D01 3G SAR Procedures v03r01 KDB 941225 D05 SAR for LTE Devices v02r04 KDB 941225 D06 Hotspot Mode v02r01 KDB 616217 D04 SAR for laptop and tablets v01r02

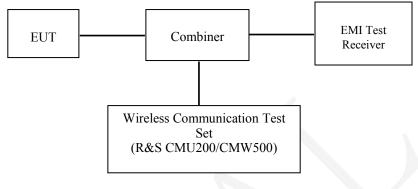
CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the EMI Test Receiver through sufficient attenuation.



GSM/WCDMA/LTE

Radio Configuration

The power measurement was configured by the Wireless Communication Test Set.

GSM/GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900 Press Connection control to choose the different menus Press RESET > choose all the reset all settings Connection Press Signal Off to turn off the signal and change settings Network Support > GSM + GPRS or GSM + EGSMMain Service > Packet Data Service selection > Test Mode A – Auto Slot Config. off MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting > Slot configuration > Uplink/Gamma > 33 dBm for GPRS 850 > 30 dBm for GPRS 1900 > 27 dBm for EGPRS 850 > 26 dBm for EGPRS 1900 BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel Frequency Offset > + 0 Hz Mode > BCCH and TCH BCCH Level > -85 dBm (May need to adjust if link is not stabe) BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel] Channel Type > Off PO > 4 dBSlot Config >Unchanged (if already set under MS signal) TCH > choose desired test channel Hopping > Off Main Timeslot > 3Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS) Bit Stream >2E9-1 PSR Bit Stream AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection Press Signal on to turn on the signal and change settings

WCDMA Release 99

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification. The EUT has a nominal maximum output power of 24dBm (+1.7/-3.7).

	Loopback Mode	Test Mode 1
WCDMA General Settings	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

HSDPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSDPA	HSDPA	HSDPA	HSDPA			
	Subset	1	2	3	4			
	Loopback Mode			Test Mode	1			
	Rel99 RMC			12.2kbps RM	1C			
	HSDPA FRC	H-Set1						
WCDMA General	Power Control Algorithm	Algorithm2						
	β _c	2/15	12/15	15/15	15/15			
Settings	β_d	15/15	15/15	8/15	4/15			
_	$\beta_d(SF)$	64						
	β_c/β_d	2/15	12/15	15/8	15/4			
	β_{hs}	4/15	24/15	30/15	30/15			
	MPR(dB)	0	0	0.5	0.5			
	DACK			8				
	DNAK			8				
HSDPA	DCQI			8				
Specific Settings	Ack-Nack repetition factor	3						
Settings	CQI Feedback			4ms				
	CQI Repetition Factor			2				
	Ahs=βhs/ βc			30/15				

HSUPA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA			
	Subset	1	2	3	4	5			
	Loopback Mode			Test Mode 1					
	Rel99 RMC		1	2.2kbps RM	С				
	HSDPA FRC			H-Set1					
	HSUPA Test		HS	SUPA Loopb	ack				
WCDMA	Power Control			Algorithm2					
WCDMA	Algorithm	11/15	(15	15/15	2/15	15/15			
General	β_c	11/15	6/15	15/15	2/15	15/15			
Settings	β_d	15/15	15/15	9/15	15/15	0			
	β_{ec}	209/225	12/15	30/15	2/15	5/15			
	β_c/β_d	11/15	6/15	15/9	2/15	-			
	β_{hs}	22/15	12/15	30/15	4/15	5/15			
	CM(dB)	1.0	3.0	2.0	3.0	1.0			
	MPR(dB)	0	2		2	0			
	DACK			8					
	DNAK 8								
HODDA	DCQI			8	-				
HSDPA	Ack-Nack	3							
Specific Settings	repetition factor			4					
Settings	CQI Feedback			4ms					
	CQI Repetition Factor	2							
	Ahs= β_{hs}/β_c	30/15							
	DE-DPCCH	6	8	8	5	7			
	DE-DFCCH DHARQ	0	0	0	0	0			
	AG Index	20	12	15	17	21			
	ETFCI	75	67	92	71	81			
	Associated Max	13	07	92	/1	01			
	UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9			
	OL Data Rate Rops								
		E-TFC	Ч11 F	E-TFCI	E-TEC	CI 11 E			
HSUPA		E-TFC		11		T PO 4			
Specific		E-TF		E-TFCI		CI 67			
Settings		E-TFC		PO4		I PO 18			
Seeings	· · · · · · · · · · · · · · · · · · ·			E-TFCI	E-TF				
	Reference E FCls	E-TFCI 71 E-TFCI PO23		92		I PO23			
		E-TF		E-TFCI		CI 75			
			E-TFCI PO26 E-TFCI 81			I PO26			
		E-TF			E-TFCI 81				
		E-TFC	I PO 27		E-TFC	I PO 27			

HSPA+

Sub- test	β. (Note3)	βa	β _{нs} (Note1)	β _{ec}	β _{ed} (2xSF2) (Note 4)	β _{od} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β _{ed} 1: 30/15 β _{ed} 2: 30/15	β _{ed} 3: 24/15 β _{ed} 4: 24/15	3.5	2.5	14	105	105
Note 1 Note 2 Note 3 Note 4 Note 5	:: CM = : DPD : β _{ed} c : All th DPD	= 3.5 a CH is an no e sub CH ca	and the MF not config t be set dir tests requ ategory 7.	PR is bas jured, the rectly; it is uire the U E-DCH T	with $\beta_{bc} = 30/15$ ed on the relative refore the β_c is s s set by Absolute E to transmit 2S TI is set to 2ms allocated. The U	e CM difference, et to 1 and β₄ = Grant Value. F2+2SF4 16QAI TTI and E-DCH	0 by defau M EDCH a table inde>	lt. nd they a c = 2. ⊺o s	ipply for l support th	nese E-Ď(

The following tests were conducted according to the test requirements in Table C.11.1.4 of 3GPP TS 34.121-1

DC-HSDPA

The following tests were conducted according to the test requirements in Table C.8.1.12 of 3GPP TS 34.121-1

	Parameter	Unit	Value				
Nominal	Avg. Inf. Bit Rate	kbps	60				
Inter-TTI	Distance	TTľs	1				
Number (of HARQ Processes	Proces	6				
		ses	0				
Information	on Bit Payload ($N_{I\!N\!F}$)	Bits	120				
Number (Code Blocks	Blocks	1				
Binary Cl	nannel Bits Per TTI	Bits	960				
Total Ava	ailable SML's in UE	SML's	19200				
Number (of SML's per HARQ Proc.	SML's	3200				
Coding R	late		0.15				
Number (of Physical Channel Codes	Codes	1				
Modulatio			QPSK				
Note 1:	The RMC is intended to be used for	or DC-HSD	PA				
	mode and both cells shall transmit	with identi	cal				
	parameters as listed in the table.						
Note 2:							
	retransmission is not allowed. The redundancy and						
	constellation version 0 shall be use	ed.					

LTE

For UE Power Class 1 and 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2-1due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1.

Modulation	Cha	nnel bandw	idth / Tra	ansmission	bandwidth (N _{RB})	MPR (dB)
	1.4						
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤5	≤4	≤ 8	≤ 12	≤ 16	≤ 18	≤1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤2

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1 and 3

For UE Power Class 1 and 3 the specific requirements and identified sub clauses are specified in Table 6.2.4-1 along with the allowed A-MPR values that may be used to meet these requirements. The allowed A-MPR values specified below in Table 6.2.4-1 to 6.2.4-15 are in addition to the allowed MPR requirements specified in sub clause 6.2.3.

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N _{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A.
			3	>5	≤1
		2 / 10 22 25	5	>6	≤1
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	10	>6	≤ 1
		55, 50	15	>8	≦ 1
			20	>10	≤1
NS_04	6.6.2.2.2	41	5	>6	≤1
_		41	10, 15, 20		6.2.4-4
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	N/A
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40 > 55	≤1 ≤2
NS_10		20	15, 20	Table 6.2.4-3	
NS_11	6.6.2.2.1	23	1.4, 3, 5, 10, 15, 20	Table 6.2.4-5	
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4-6	
NS_13	6.6.3.3.6	26	5	Table 6.2.4-7	
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4-8	
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4-9 Table 6.2.4- 1 0	
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4-11, Table 6.2.4-12, Table 6.2.4-13	
NS_17	6.6.3.3.10	28	5, 10	Table 5.6-1	N/A.
NS_18	6.6.3.3.11	28	5 10, 15, 20	≥2 ≥1	≤1 ≤4
NS_19	6.6.3.3.12	44	10, 15, 20		5.2.4 -1 4
NS_20	6.2.2 6.6.2.2.1 6.6.3.2	23	5, 10, 15, 20	Table 6.2.4-15	
NS_32	-	-	-	-	-

Maximum Target Output Power

Max Target Power(dBm)					
	Channel				
Mode/Band	Low	Middle	High		
GSM 850	32.9	32.9	32.9		
GPRS 1 TX Slot	33.1	33.1	33.1		
GPRS 2 TX Slot	32.3	32.3	32.3		
GPRS 3 TX Slot	30.5	30.5	30.5		
GPRS 4 TX Slot	29.4	29.4	29.4		
PCS 1900	29.7	29.7	29.7		
GPRS 1 TX Slot	29.8	29.8	29.8		
GPRS 2 TX Slot	28.9	28.9	28.9		
GPRS 3 TX Slot	27.1	27.1	27.1		
GPRS 4 TX Slot	25.9	25.9	25.9		
WCDMA Band 5	22.4	22.4	22.4		
HSDPA	21.3	21.3	21.3		
HSUPA	21.3	21.3	21.3		
DC-HSDPA	21.3	21.3	21.3		
HSPA+	21.2	21.2	21.2		
WCDMA Band 4	21.7	21.7	21.7		
HSDPA	20.6	20.6	20.6		
HSUPA	20.5	20.5	20.5		
DC-HSDPA	20.5	20.5	20.5		
HSPA+	20.6	20.6	20.6		
WCDMA Band 2	22	22	22		
HSDPA	20.9	20.9	20.9		
HSUPA	21	21	21		
DC-HSDPA	21.1	21.1	21.1		
HSPA+	21.1	21.1	21.1		
LTE Band 2	23.1	23.1	23.1		
LTE Band 4	23.1	23.1	23.1		
WLAN(802.11b)	8.7	8.7	8.7		
WLAN(802.11g)	9.3	9.3	9.3		
WLAN(802.11n HT20)	9.5	9.5	9.5		
WLAN(802.11n HT40)	9.3	9.3	9.3		
Bluetooth BDR/EDR	4.1	4.1	4.1		
Bluetooth LE	-3.1	-3.1	-3.1		

Test Results:

GSM:

Band	Channel No.	Frequency (MHz)	RF Output Power (dBm)
GSM 850	128	824.2	32.84
	190	836.6	32.76
	251	848.8	32.69
PCS 1900	512	1850.2	29.6
	661	1880	29.32
	810	1909.8	29.43

GPRS:

Band	Channel I No.	Frequency (MHz)	RF Output Power (dBm)			
			1 slot	2 slots	3 slots	4 slots
GSM 850	128	824.2	32.89	32.15	30.26	29.09
	190	836.6	32.97	32.14	30.33	29.26
	251	848.8	32.7	31.93	30.35	29.05
PCS 1900	512	1850.2	29.69	28.79	26.96	25.82
	661	1880	29.44	28.69	26.84	25.66
	810	1909.8	29.42	28.65	26.89	25.69

For SAR, the time based average power is relevant, the difference in between depends on the duty cycle of the TDMA signal.

Number of Time slot	1	2	3	4
Duty Cycle	1:8	1:4	1:2.66	1:2
Time based Ave. power compared to slotted Ave. power	-9 dB	-6 dB	-4.25 dB	-3 dB
Crest Factor	8	4	2.66	2

Bay Area Compliance Laboratories Corp. (Kunshan)

	Channel	Frequency	Time based average Power (dBm)					
Band	No.	(MHz)	1 slot	2 slot	3 slots	4 slots		
	128	824.2	23.89	26.15	26.01	26.09		
GSM 850	190	836.6	23.97	26.14	26.08	26.26		
	251	848.8	23.7	25.93	26.1	26.05		
	512	1850.2	20.69	22.79	22.71	22.82		
PCS 1900	661	1880	20.44	22.69	22.59	22.66		
	810	1909.8	20.42	22.65	22.64	22.69		

The time based average power for GPRS

Note:

1.Rohde & Schwarz Radio Communication Tester (CMU200) was used for the measurement of GSM peak and average output power for active timeslots.

2.For GSM voice, 1 timeslot has been activated with power level 5 (850 MHz band) and 0 (1900 MHz band).

3.For GPRS, 1, 2, 3 and 4 timeslots has been activated separately with power level 3(850 MHz band) and 3(1900 MHz band).

WCDMA: Results (12.2kbps RMC)

<u>()</u>		
Band	Frequency (MHz)	RF Output Power (dBm)
	826.4	22.03
WCDMA Band 5	836.6	22.19
	846.6	22.25
	1712.4	21.63
WCDMA Band 4	1732.6	21.56
	1752.6	21.57
	1852.4	21.72
WCDMA Band 2	1880	21.88
	1907.6	21.92

Results (HSDPA)

Band Frequency RF Output Power (dBm)					
Danu	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4
	826.4	20.99	20.93	2.91	20.84
WCDMA Band 5	836.6	21.1	20.12	20.89	21.16
	846.6	21.01	21.06	20.95	21
	1712.4	20.35	20.45	20.3	20.45
WCDMA Band 4	1732.6	20.29	20.17	20.13	20.38
	1752.6	20.25	20.26	20.21	20.36
	1852.4	20.5	20.41	20.41	20.45
WCDMA Band 2	1880	20.77	20.75	20.77	20.83
	1907.6	20.77	20.82	20.79	20.81

Results (HSUPA)

Band	Frequency	RF Output Power (dBm)					
Danu	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4	Subset 5	
	826.4	20.92	20.82	20.89	20.87	21	
WCDMA Band 5	836.6	20.05	20.93	20.9	21.15	21.03	
	846.6	20.95	20.95	20.9	21.12	21.08	
	1712.4	20.22	20.17	20.15	20.26	20.36	
WCDMA Band 4	1732.6	20.22	20.34	20.29	20.33	20.2	
	1752.6	20.23	20.26	20.17	20.21	20.25	
WCDMA Band 2	1852.4	20.41	20.48	20.46	20.6	20.41	
	1880	20.87	20.71	20.68	20.78	20.81	
	1907.6	20.85	20.73	20.72	20.79	20.83	

Results (DC-HSDPA):

Darid	Frequency		RF Output Power (dBm)				
Band	(MHz)	Subset 1	Subset 2	Subset 3	Subset 4		
	826.4	20.9	20.77	20.94	20.84		
WCDMA Band 5	836.6	20.04	21.03	21.01	21.23		
	846.6	20.98	20.92	20.93	21.2		
	1712.4	20.18	20.18	20.24	20.22		
WCDMA Band 4	1732.6	20.18	20.42	20.27	20.42		
	1752.6	20.33	20.35	20.23	20.35		
	1852.4	20.52	20.55	20.43	20.55		
WCDMA Band 2	1880	20.87	20.8	20.8	20.8		
	1907.6	20.99	20.71	20.82	20.77		

Results (HSPA+)

Band	Frequency (MHz)	RF Output Power (dBm)
	826.4	20.99
WCDMA Band 5	836.6	21.07
	846.6	21.05
	1712.4	20.47
WCDMA Band 4	1732.6	20.23
	1752.6	20.29
	1852.4	20.36
WCDMA Band 2	1880	20.96
	1907.6	20.9

Note:

1. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model 1. 2. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA/HSPA+ when the maximum average output of each RF channel is less than ¹/₄ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

LTE Band 2:

Tart	Test	Resource			Low	Middle	High
Test	Test	Block &	Target MPR	Meas MPR	Channel	Channel	Channel
Bandwidth Modul	Modulation	RB offset			(dBm)	(dBm)	(dBm)
		1#0	0	0	22.92	22.69	22.85
		1#3	0	0	22.87	22.61	22.94
		1#5	0	0	23.04	22.62	22.93
	QPSK	3#0	1	1	22.91	22.76	22.83
		3#1	1	1	22.97	22.78	22.92
		3#3	1	1	22.98	22.68	23
1 41 4		6#0	1	1	22.03	21.54	21.79
1.4M		1#0	1	1	21.99	21.65	21.95
		1#3	1	1	22.05	21.72	21.99
		1#5	1	1	22.01	21.72	21.85
	16-QAM	3#0	2	2	22.06	21.81	21.84
		3#1	2	2	22.01	21.73	21.9
		3#3	2	2	22.14	21.65	21.88
		6#0	2	2	20.99	20.78	20.71
	QPSK	1#0	0	0	22.93	22.54	22.8
		1#7	0	0	22.93	22.56	22.9
		1#14	0	0	22.8	22.47	22.87
		8#0	1	1	21.94	21.71	21.83
		8#4	1	1	21.98	21.66	21.87
		8#7	1	1	21.93	21.58	22
214		15#0	1	1	21.96	21.69	22
3M		1#0	1	1	22.01	21.66	22.32
		1#7	1	1	22.15	21.7	22.45
		1#14	1	1	21.95	21.66	22.2
	16-QAM	8#0	2	2	20.89	20.67	21.02
		8#4	2	2	21.04	20.75	21.11
		8#7	2	2	20.96	20.73	20.94
		15#0	2	2	20.95	20.77	20.91
		1#0	0	0	23.02	22.68	22.91
		1#12	0	0	22.9	22.55	22.95
		1#24	0	0	22.92	22.68	22.95
	QPSK	12#0	1	1	21.63	21.72	21.9
5M		12#6	1	1	21.59	21.81	21.84
5101		12#11	1	1	21.58	21.63	22
		25#0	1	1	21.58	21.63	21.78
		1#0	1	1	22.35	21.82	21.82
	16-QAM	1#12	1	1	21.95	21.99	21.87
		1#24	1	1	22.27	21.81	21.99

SAR Evaluation Report

Bay Area	Compliance	Laboratories	Corp.	(Kunshan)	

Report No: RSZ160902003-20

Area Compli	ance Laboratorio	es Corp. (Kun	shan)		Repo	ort No: RSZ16	60902003-2
		12#0	2	2	20.84	20.91	21.04
		12#6	2	2	20.87	20.83	20.98
		12#11	2	2	20.88	20.83	21.96
		25#0	2	2	20.92	20.72	20.91
		1#0	0	0	22.27	22.6	22.87
		1#24	0	0	22.29	22.6	22.8
		1#49	0	0	22.26	22.58	22.81
	QPSK	25#0	1	1	21.63	21.66	21.62
		25#12	1	1	21.6	21.67	21.56
		25#24	1	1	21.55	21.56	21.15
10M		50#0	1	1	21.81	21.58	21.96
TOM		1#0	1	1	21.87	21.6	21.88
		1#24	1	1	21.92	21.6	21.91
		1#49	1	1	21.95	21.75	22.03
	16-QAM	25#0	2	2	20.89	20.74	20.85
		25#12	2	2	20.9	20.8	20.88
		25#24	2	2	20.93	20.88	20.96
		50#0	2	2	20.94	20.8	20.99
		1#0	0	0	22.39	22.71	22.81
		1#37	0	0	22.49	22.53	22.62
		1#74	0	0	22.36	22.71	22.7
	QPSK	36#0	1	1	21.52	21.63	21.69
		36#17	1	1	21.45	21.77	21.76
		36#35	1	1	21.54	21.69	21.85
15M		75#0	1	1	21.93	21.61	21.87
1 3 1 1		1#0	1	1	21.59	22.33	22
		1#37	1	1	21.7	22.18	21.9
		1#74	1	1	21.66	22.26	21.89
	16-QAM	36#0	2	2	20.75	20.77	20.86
		36#17	2	2	20.89	20.83	20.97
		36#35	2	2	20.95	20.75	21.03
		75#0	2	2	20.97	20.68	20.83
		1#0	0	0	22.38	22.86	22.88
		1#49	0	0	22.46	22.65	22.71
		1#99	0	0	22.51	22.7	22.69
	QPSK	50#0	1	1	21.48	21.69	21.87
		50#24	1	1	21.38	21.64	21.82
		50#49	1	1	21.49	21.76	22
20M		100#0	1	1	21.97	21.69	21.7
20101		1#0	1	1	21.68	22.35	22.2
		1#49	1	1	21.6	22.28	22.02
		1#99	1	1	21.6	22.26	22.1
	16-QAM	50#0	2	2	20.7	20.89	21.04
		50#24	2	2	20.71	20.82	20.93
		50#49	2	2	20.65	20.83	21
		100#0	2	2	20.89	20.87	20.85

LTE Band 4:

		Resource			Low	Middle	High
Test	Test	Block &	Target MPR	Meas MPR	Channel	Channel	Channel
Bandwidth	Modulation	RB offset	IVIT K	IVIT K	(dBm)	(dBm)	(dBm)
		1#0	0	0	22.8	22.3	22.4
		1#3	0	0	23.01	22.32	22.47
		1#5	0	0	22.9	22.24	22.36
	QPSK	3#0	1	1	23.02	22.41	22.37
		3#1	1	1	22.94	22.27	22.44
		3#3	1	1	22.89	22.31	22.44
1 41 4		6#0	1	1	21.86	21.23	21.52
1.4M		1#0	1	1	21.91	21.36	21.46
		1#3	1	1	21.94	21.37	21.67
		1#5	1	1	22.03	21.38	21.63
	16-QAM	3#0	2	2	20.87	20.31	20.55
		3#1	2	2	20.86	20.43	20.52
		3#3	2	2	20.82	20.41	20.44
		6#0	2	2	20.94	20.44	20.51
		1#0	0	0	22.77	22.28	22.46
		1#7	0	0	22.89	22.31	22.44
		1#14	0	0	22.75	22.27	22.34
	QPSK	8#0	1	1	21.91	21.36	21.52
		8#4	1	1	21.77	21.38	21.49
		8#7	1	1	21.92	21.38	21.38
3M		15#0	1	1	21.99	21.42	21.42
5111	16-QAM	1#0	1	1	22.07	21.73	21.54
		1#7	1	1	22.01	21.76	21.35
		1#14	1	1	21.93	21.62	21.4
		8#0	2	2	20.87	20.35	20.56
		8#4	2	2	20.91	20.42	20.53
		8#7	2	2	20.89	20.5	20.51
		15#0	2	2	20.99	20.33	20.58
		1#0	0	0	22.95	22.39	22.64
		1#12	0	0	22.94	22.31	22.62
	ODGU	1#24	0	0	22.8	22.27	22.52
	QPSK	12#0	1	1	21.91	21.49	21.66
		12#6	1	1	20.89	21.36	21.58
		12#11	1	1	21.99	21.34	21.51
5M		25#0	1	1	21.85	21.43	21.43
		1#0	1	1	22.05 22.04	21.3	21.77
		1#12	1	1		21.35 21.39	21.84
	16 O M	1#24 12#0	1 2	2	21.89	21.39	21.71 20.43
	16-QAM	12#0	2	2	20.85 20.87	21.39	20.43
		12#6	2	2	20.87	21.4	20.47
		25#0	2	2	20.93	21.45	20.59
		1#0	0	0	20.84	20.45	20.5
10M	QPSK	1#0	0	0	22.32	22.4	22.43
		1#24	U	U	22.83	22.24	22.30

SAR Evaluation Report

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Area Compli	ance Laboratorio	es Corp. (Kun	ishan)		Repo	ort No: RSZ16	60902003-20
		1#49	0	0	22.9	22.36	22.46
		25#0	1	1	21.86	21.4	21.55
		25#12	1	1	21.98	21.47	21.57
		25#24	1	1	22.04	21.37	21.39
		50#0	1	1	21.8	21.47	21.45
		1#0	1	1	21.88	21.93	21.5
		1#24	1	1	21.8	21.85	21.32
		1#49	1	1	21.9	21.78	21.41
	16-QAM	25#0	2	2	20.99	20.52	20.54
		25#12	2	2	20.82	20.42	20.48
		25#24	2	2	20.83	20.53	20.46
		50#0	2	2	20.93	20.44	20.56
		1#0	0	0	21.81	22.64	22.36
		1#37	0	0	22.36	22.32	22.52
		1#74	0	0	22.9	22.47	22.46
	QPSK	36#0	1	1	21.22	21.56	21.45
		36#17	1	1	21.23	21.41	21.54
		36#35	1	1	21.07	21.42	21.53
1516		75#0	1	1	21.52	21.58	21.61
15M		1#0	1	1	21.03	21.99	21.7
		1#37	1	1	21.65	21.74	21.83
		1#74	1	1	22	21.71	21.79
	16-QAM	36#0	2	2	20.57	20.5	20.57
		36#17	2	2	20.51	20.46	20.6
		36#35	2	2	20.57	20.55	20.45
		75#0	2	2	20.9	20.49	20.49
		1#0	0	0	22.99	22.69	22.33
		1#49	0	0	22.75	22.35	22.17
		1#99	0	0	22.55	22.48	22.15
	QPSK	50#0	1	1	21.9	21.45	21.45
		50#24	1	1	21.79	21.53	21.49
		50#49	1	1	21.84	21.33	21.28
2014		100#0	1	1	21.81	21.37	21.36
20M		1#0	1	1	22.21	22.03	21.82
		1#49	1	1	21.93	21.68	21.46
		1#99	1	1	22.15	21.8	21.78
	16-QAM	50#0	2	2	20.81	20.43	20.44
		50#24	2	2	20.75	20.45	20.45
		50#49	2	2	20.75	20.4	20.36
		100#0	2	2	20.87	20.46	20.47

Note:

1.SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.

2. The CMW500 Wideband Radio Communication tester is used for LTE output power measurements and SAR testing. Closed loop power control is used to keep the radio transmitters the max output power during the test.

3.KDB941225D05v02- SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is > $\frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg

Bluetooth:

Mode	Channel frequency	RF Output Power
	(MHz)	(dBm)
	2402	2.16
BDR(GFSK)	2441	3.46
	2480	3.99
	2402	1.46
EDR(4-DQPSK)	2441	2.74
	2480	3.12
	2402	1.58
EDR(8-DPSK)	2441	2.92
	2480	3.3
	2402	-4.09
Bluetooth LE	2440	-3.19
	2480	-3.69

WLAN:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
	2412	8.23
802.11b	2442	8.45
	2472	8.63
	2412	9.07
802.11g	2442	9.14
	2472	9.16
	2412	9.00
802.11n HT20	2442	9.36
11120	2472	9.36
000.11	2422	8.51
802.11n HT40	2442	9.12
11140	2462	9.18

Note:

The output power was tested under data rate 1Mbps for 802.11b, 6Mbps for 802.11g, MCS0 for 802.11n HT20 and 802.11n HT40.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	21.5-22.5 ℃	22.4-23.6℃	22.4-23.1 ℃	22.4 - 23.4 ℃	23.1-24.8
Relative Humidity:	38 %	39 %	40 %	41 %	41 %
ATM Pressure:	1002 mbar	1004 mbar	1006 mbar	1005 mbar	1007 mbar
Test Date:	2016/10/08	2016/10/10	2016/10/12	2016/10/15	2016/10/16

Testing was performed by Edison Hu, Zack Huang

EUT	Frequerau	Test	Power	Max. Meas.	Max. Rated		1g SAR (W/Kg)	
Position	Frequency (MHz)	Mode	Drift (dB)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	824.2	GSM	/	/	/	/	/	/	/
Head Flat	836.6	GSM	0.04	32.76	32.9	1.033	0.194	0.2	1#
	848.8	GSM	/	/	/	/	/	/	/
	824.2	GSM	/	/	/	/	/	/	/
Body-Back-Headset (0mm)	836.6	GSM	0.05	32.76	32.9	1.033	0.621	0.641	/
(0)	848.8	GSM	/	/	/	/	/	/	/
	824.2	GPRS	0.12	29.09	29.4	1.074	0.859	0.923	2#
Body-Back (0mm)	836.6	GPRS	0.16	29.26	29.4	1.033	0.796	0.822	/
(0)	848.8	GPRS	0.05	29.05	29.4	1.084	0.784	0.85	/
	824.2	GPRS	/	/	/	/	/	/	/
Body-Right (0mm)	836.6	GPRS	-0.11	29.26	29.4	1.033	0.114	0.118	/
(0)	848.8	GPRS	/	/		/	1	/	/
	824.2	GPRS	1	/	1	1	1	/	/
Body-Bottom (0mm)	836.6	GPRS	-0.15	29.26	29.4	1.033	0.316	0.326	/
(0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	848.8	GPRS	/	/	/	/	/	/	/

GSM 850:

Note:

1. When the 1-g SAR is \leq 0.8W/Kg, testing for other channels are optional.

2. The EUT transmit and receive through the same GSM antenna while testing SAR.

3. 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.

4. When the maximum output power variation across the required test channels is > 1/2 dB, instead of the middle channel, the highest output power channel must be used.

5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

EUT	Frequency	Test	Power	Max. Meas.	Max. Rated	-	1g SAR (V	V/Kg)	
Position	(MHz)	Mode	Drift (dB)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1850.2	GSM	/	/	/	/	/	/	/
Head Flat	1880	GSM	0.06	29.32	29.7	1.091	0.0214	0.023	3#
	1909.8	GSM	/	/	/	/	/	/	/
	1850.2	GSM	/	/	/	/	/	/	/
Body-Back-Headset (0mm)	1880	GSM	0.09	29.32	29.7	1.091	0.178	0.194	/
(0)	1909.8	GSM	/	/	/	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/	/
Body-Back (0mm)	1880.0	GPRS	0.09	25.66	25.9	1.057	0.213	0.225	4#
(011111)	1909.8	GPRS	/	/	1	/	/	/	/
	1850.2	GPRS	/	/	/	/	/	/	/
Body-Right (0mm)	1880.0	GPRS	0.04	25.66	25.9	1.057	0.065	0.069	/
(onini)	1909.8	GPRS	/	/		/	1	/	/
	1850.2	GPRS	1	/	1		1	/	/
Body-Bottom (0mm)	1880.0	GPRS	-0.05	25.66	25.9	1.057	0.188	0.199	/
(011111)	1909.8	GPRS	/	/	/	/	/	/	/

PCS 1900:

Note:

1. When the 1-g SAR is ≤ 0.8 W/Kg, testing for other channels are optional.

2. The EUT transmit and receive through the same GSM antenna while testing SAR.

3. 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.

4. When the maximum output power variation across the required test channels is > 1/2 dB, instead of the middle channel, the highest output power channel must be used.

5. The Multi-slot Classes of EUT is Class 12 which has maximum 4 Downlink slots and 4 Uplink slots, the maximum active slots is 5, when perform the multiple slots scan, 1DL+4UL is the worst case.

WCDMA Band 5:

EUT	Fraguara	Test	Power	Max.	Max. Rated		1g SAR (W/Kg)	
Position	Frequency (MHz)	Test Mode	Drift (dB)	Meas. Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	826.4	RMC	/	/	/	/	/	/	/
Head Flat	836.6	RMC	0.07	22.19	22.4	1.05	0.199	0.209	5#
	846.6	RMC	/	/	/	/	/	/	/
	826.4	RMC	0.05	22.03	22.4	1.089	1.05	1.143	/
Body-Back (0mm)	836.6	RMC	-0.07	22.19	22.4	1.05	1.13	1.187	6#
(011111)	846.6	RMC	0.03	22.25	22.4	1.035	1.1	1.139	/
	826.4	RMC	/	/	/	/	/	/	/
Body-Right (0mm)	836.6	RMC	0.01	22.19	22.4	1.05	0.206	0.216	/
(011111)	846.6	RMC	/	/		/	/	/	/
	826.4	RMC	/	/	/	/	/	/	/
Body-Bottom (0mm)	836.6	RMC	0.14	22.19	22.4	1.05	0.447	0.469	/
(0.1111)	846.6	RMC	/	/		/	1	/	/
CDMA Band 4:			X		\bigvee				

WCDMA Band 4:

EUT	Frequency	Test	Power	Max. Meas.	Max. Rated		1g SAR (W/Kg)	
Position	(MHz)	Mode	Drift (dB)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1712.4	RMC	/	/		/	/	/	/
Head Flat	1732.6	RMC	-0.03	21.56	21.7	1.033	0.015	0.015	7#
	1752.6	RMC	/		/	/	/	/	/
	1712.4	RMC	/	/	/	/	/	/	/
Body-Back (0mm)	1732.6	RMC	0.11	21.56	21.7	1.033	0.44	0.455	8#
(()	1752.6	RMC	/	/	/	/	/	/	/
	1712.4	RMC	/	/	/	/	/	/	/
Body-Right (0mm)	1732.6	RMC	-0.05	21.56	21.7	1.033	0.203	0.21	/
(01111)	1752.6	RMC	/	/	/	/	/	/	/
	1712.4	RMC	/	/	/	/	/	/	/
Body-Bottom (0mm)	1732.6	RMC	0.06	21.56	21.7	1.033	0.412	0.426	/
(()	1752.6	RMC	/	/	/	/	/	/	/

EUT	Frequency	Test	Power	Max. Meas.	Max. Rated		1g SAR (W/Kg)	
Position	(MHz)	Mode	Drift (dB)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1852.4	RMC	/	/	/	/	/	/	/
Head Flat	1880	RMC	-0.16	21.88	22	1.028	0.03	0.031	9#
	1907.6	RMC	/	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/	/
Body-Back (0mm)	1880	RMC	0.16	21.88	22	1.028	0.233	0.24	10#
(01111)	1907.6	RMC	/	/	/	/	/	/	/
	1852.4	RMC	/	/	/	/	/	/	/
Body-Right (0mm)	1880	RMC	0.11	21.88	22	1.028	0.106	0.109	/
(01111)	1907.6	RMC	/	/		/	/	/	/
	1852.4	RMC	/	/	/	/	/	/	/
Body-Bottom (0mm)	1880	RMC	0.04	21.88	22	1.028	0.202	0.208	/
	1907.6	RMC	/	/		/	1	/	/

WCDMA Band 2:

Note:

1. When the 1-g SAR is \leq 0.8W/Kg, testing for other channels are optional.

2. The EUT transmit and receive through the same antenna while testing SAR.

3. The default test configuration is to measure SAR with an established radio link between the EUT and a

communication test set using a 12.2 kbps RMC (reference measurement Channel) Configured in Test Loop Model. 4. KDB 941225 D01-Body SAR is not required for HSDPA/HSUPA/HSPA+ when the maximum average output of each RF channel is less than ¹/₄ dB higher than measured 12.2kbps RMC or the maximum SAR for 12.2kbps RMC is < 75% of SAR limit.

5. 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.

EUT	Fraguaras	Bandwidth		Power	Max. Meas.	Max. Rated		lg SAR ((W/Kg)	
Position	(MHz)	(MHz)	Test Mode	Drift (dB)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1860	20	1RB	/	/	/	/	/	/	/
Head Flat	1880	20	1RB	0.06	22.86	23.1	1.057	0.0122	0.013	11#
nead riat	1900	20	1RB	/	/	/	/	/	/	/
1880	1880	20	50%RB	0.15	21.76	23.1	1.361	0.008	0.011	/
	1860	20	1RB	/	/	/	/	/	/	/
Body-Back	1880	20	1RB	-0.09	22.86	23.1	1.057	0.18	0.19	12#
(0mm)	1900	20	1RB	/	/	/	/	/	/	/
	1880	20	50%RB	0.10	21.76	23.1	1.361	0.12	0.163	/
	1860	20	1RB	/	1	/	/	/	/	/
Body-Right	1880	20	1RB	0.18	22.86	23.1	1.057	0.098	0.104	/
(0mm)	1900	20	1RB	/	/	/	/	/	/	/
	1880	20	50%RB	-0.07	21.76	23.1	1.361	0.062	0.084	/
	1860	20	1RB	/	/	/	/	1	/	/
Body-Bottom	1880	20	1RB	-0.14	22.86	23.1	1.057	0.166	0.175	/
(0mm)	1900	20	1RB	/	/	/	1	/	/	/
	1880	20	50%RB	0.13	21.76	23.1	1.361	0.116	0.158	/
TE Band 4:										

LTE Band 2:

LTE Band 4:

EUT	Fraguanay	Bandwidth		Power	Max. Meas.	Max. Rated	-	lg SAR ((W/Kg)	
Position	(MHz)	(MHz)	Test Mode	Drift (dB)	Power (dBm)	Power (dBm)	Scaled Factor	Meas. SAR	Scaled SAR	Plot
	1720	20	1RB	/	/	/	/	/	/	/
Herd Flat	1732.5	20	1RB	0.2	22.69	23.1	1.099	0.0317	0.035	13#
Head Flat	1745	20	1RB	/	/	/	/	/	/	/
	1745	20	50%RB	0.13	21.53	23.1	1.435	0.021	0.030	/
	1720	20	1RB	/	/	/	/	/	/	/
Body-Back	1732.5	20	1RB	-0.04	22.69	23.1	1.099	0.428	0.470	14#
(0mm)	1745	20	1RB	/	/	/	/	/	/	/
	1732.5	20	50%RB	0.14	21.53	23.1	1.435	0.28	0.402	/
	1720	20	1RB	/	/	/	/	/	/	/
Body-Right	1732.5	20	1RB	0.11	22.69	23.1	1.099	0.202	0.222	/
(0mm)	1745	20	1RB	/	/	/	/	/	/	/
	1732.5	20	50%RB	0.07	21.53	23.1	1.435	0.138	0.198	/
	1720	20	1RB	/	/	/	/	/	/	/
Body-Bottom	1732.5	20	1RB	-0.05	22.69	23.1	1.099	0.327	0.359	/
(0mm)	1745	20	1RB	/	/	/	/	/	/	/
	1732.5	20	50%RB	-0.12	21.53	23.1	1.435	0.216	0.310	/

SAR Evaluation Report

Note:

1. When the 1-g SAR is \leq 0.8W/Kg, testing for other channels are optional.

2. SAR for LTE band exposure configurations is measured according to the procedures of KDB 941225 D05 SAR for LTE Devices v02.

3. KDB941225D05- SAR for higher order modulation is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg

4. KDB941225D05- For QPSK with 100% RB allocation, when the reported SAR measured for the Highest output power channel is <1.45 W/kg, tests for the remaining required test channels are optional.

5.KDB941225D05- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are \leq 0.8 W/kg.

6. KDB941225D05- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offset the upper edge, middle and lower edge of each required test channel.

7. KDB941225D05- other channel bandwidths SAR test is required when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

8. Worst case SAR for 50% RB allocation is selected to be tested.

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

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

The Highest Measured SAR Configuration in Each Frequency Band

Head

			Meas. SA	R (W/kg)	Largest to
Frequency Band	Freq.(MHz)	EUT Position	Original	Repeated	Smallest SAR Ratio
/	/			1	/

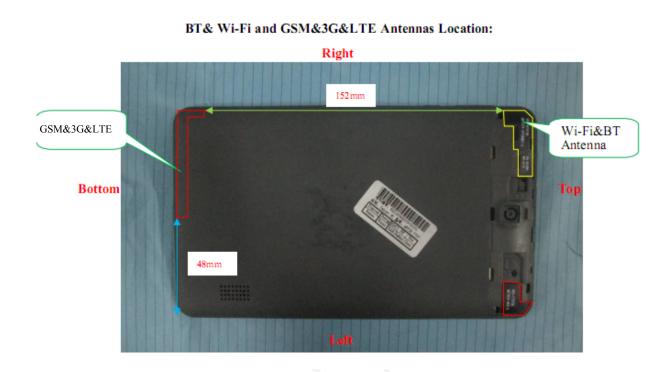
Body

			Meas. SA	Largest to	
Frequency Band	y Band Freq.(MHz) EUT P		Original	Repeated	Smallest SAR Ratio
GSM 850	836.6	Back	0.859	0.832	1.032
WCDMA 850	836.6	Back	1.13	1.06	1.066

Note:

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.

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION



Simultaneous Transmission:

Description of Simulta	Antonnos Distance (mm)		
Transmitter Combination	Simultaneous? Hotspot?		Antennas Distance (mm)
GSM + WCDMA	×	×	0
GSM+LTE	×	×	0
GSM + Bluetooth	\checkmark	×	152
GSM + WLAN	\checkmark		152
WCDMA+LTE	×	×	0
WCDMA + Bluetooth	\checkmark	×	152
WCDMA + WLAN	\checkmark	\checkmark	152
LTE + Bluetooth		×	152
LTE + WLAN	\checkmark		152

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
WLAN	2472	9.5	8.91	0	2.8	3	YES
Bluetooth	2480	4.1	2.57	0	0.8	3	YES

Standalone SAR test exclusion considerations

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f(GHz) is the RF channel transmit frequency in GHz.

2. Power and distance are rounded to the nearest mW and mm before calculation.

3. The result is rounded to one decimal place for comparison.

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

Standalone SAR estimation:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated 1-g (W/kg)
WLAN	2472	9.5	8.91	0	0.373
Bluetooth	2480	4.1	2.57	0	0.105

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

[(max. power of channel, including tune-up tolerance , mW)/(min. test separation distance,mm)] \cdot [$\sqrt{f(GHz)/x}$]

W/kg for test separation distances \leq 50 mm;

where x = 7.5 for 1-g SAR.

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

Simultaneous and Hotspot SAR test exclusion considerations:

	D ://	Reported S	SAR(W/kg)	ΣSAR <
Mode(SAR1+SAR2)	Position	SAR1	SAR2	1.6W/kg
	Head Flat	0.20	0.105	0.305
	Body-Back-Headset	0.641	0.105	0.746
GSM 850+Bluetooth	Body-Back	0.923	0.105	1.028
	Body- Right	0.118	0.105	0.223
	Body- Bottom	0.326	0.105	0.431
	Head Flat	0.023	0.105	0.128
	Body-Back-Headset	0.194	0.105	0.299
PCS1900 +Bluetooth	Body-Back	0.225	0.105	0.330
	Body- Right	0.069	0.105	0.174
	Body- Bottom	0.199	0.105	0.304
	Head Flat	0.209	0.105	0.314
WCDMA Band	Body-Back	1.187	0.105	1.292
5+Bluetooth	Body- Right	0.216	0.105	0.321
	Body-Bottom	0.469	0.105	0.574
	Head Flat	0.015	0.105	0.120
WCDMA Band	Body-Back	0.455	0.105	0.560
4+Bluetooth	Body-Right	0.21	0.105	0.315
	Body- Bottom	0.426	0.105	0.531
	Head Flat	0.031	0.105	0.136
WCDMA Band	Body-Back	0.24	0.105	0.345
2+Bluetooth	Body- Right	0.109	0.105	0.214
	Body-Bottom	0.208	0.105	0.313
	Head Flat	0.013	0.105	0.118
LTE Band 2+Bluetooth	Body-Back	0.19	0.105	0.295
	Body- Right	0.104	0.105	0.209
	Body- Bottom	0.175	0.105	0.280
	Head Flat	0.035	0.105	0.140
LTE Band 4+Bluetooth	Body-Back	0.47	0.105	0.575
	Body- Right	0.222	0.105	0.327
	Body- Bottom	0.359	0.105	0.464

Mode(SAR1+SAR2)	Position	Reported S	ΣSAR < 1.6W/kg	
		SAR1	SAR2	1.0 W/Kg
GSM 850+ WLAN	Head Flat	0.20	0.373	0.573
	Body-Back-Headset	0.641	0.373	1.014
	Body-Back	0.923	0.373	1.296
GPRS 850 + WLAN (Hotspot)	Body- Right	0.118	0.373	0.491
	Body- Bottom	0.326	0.373	0.699
PCS1900 + WLAN	Head Flat	0.023	0.373	0.396
	Body-Back-Headset	0.194	0.373	0.567

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	Body-Back	0.225	0.373	0.598		
GPRS 1900 + WLAN (Hotspot)	Body- Right	0.069	0.373	0.442		
(110(5)0()	Body-Bottom	0.199	0.373	0.572		
WCDMA Band 5+ WLAN	Head Flat	0.209	0.373	0.582		
	Body-Back	1.187	0.373	1.560		
WCDMA Band 5+ WLAN (Hotspot)	Body- Right	0.216	0.373	0.589		
(Hotspot)	Body-Bottom	0.469	0.373	0.842		
WCDMA Band 4+ WLAN	Head Flat	0.015	0.373	0.388		
	Body-Back	0.455	0.373	0.828		
WCDMA Band 4+ WLAN (Hotspot)	Body- Right	0.21	0.373	0.583		
(Hotspot)	Body- Bottom	0.426	0.373	0.799		
WCDMA Band 2+ WLAN	Head Flat	0.031	0.373	0.404		
	Body-Back	0.24	0.373	0.613		
WCDMA Band 2+ WLAN (Hotspot)	Body- Right	0.109	0.373	0.482		
(Hotspot)	Body- Bottom	0.208	0.373	0.581		
LTE Band 2+ WLAN	Head Flat	0.013	0.373	0.386		
	Body-Back	0.19	0.373	0.563		
LTE Band 2+ WLAN (Hotspot)	Body- Right	0.104	0.373	0.477		
(110(5)0()	Body- Bottom	0.175	0.373	0.548		
LTE Band 4+ WLAN	Head Flat	0.035	0.373	0.408		
	Body-Back	0.47	0.373	0.843		
LTE Band 4+ WLAN (Hotspot)	Body- Right	0.222	0.373	0.595		
(110(5p0t)	Body-Bottom	0.359	0.373	0.732		

Note:

Hotspot mode SAR is only required for the edges within 25mm from the transmitting antenna located.
 Hotspot Mode is not feasible during voice calls.

Conclusion:

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

SAR Plots (Summary of the Highest SAR Values)

Test Laboratory: Bay Area Compliance Labs Corp.(Kunshan)

Test Plot 1#:GSM 850 Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

Communication System: Generic GSM; Frequency: 836.6 MHz;Duty Cycle: 1:8 Medium parameters used (interpolated): f = 836.6 MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 42.881$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

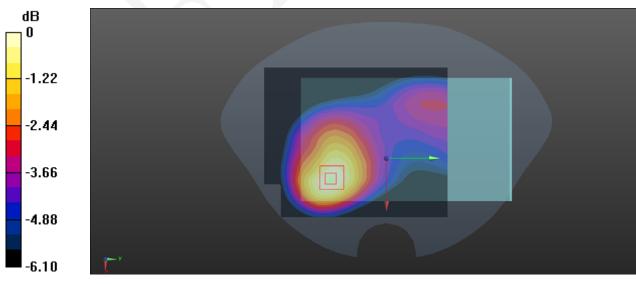
DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(9.84, 9.84, 9.84); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

Head/GSM 850 Mid/Area Scan (91x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.210 W/kg

Head/GSM 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.335 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.268 W/kg

SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.134 W/kg Maximum value of SAR (measured) = 0.206 W/kg



0 dB = 0.206 W/kg = -6.86 dBW/kg

Test Plot 2#:GSM 850 Low

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

Communication System: Generic GPRS-4 slot; Frequency: 824.2 MHz;Duty Cycle: 1:2 Medium parameters used: f = 824.2 MHz; $\sigma = 0.949$ S/m; $\epsilon_r = 55.181$; $\rho = 1000$ kg/m³ Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(9.89, 9.89, 9.89); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

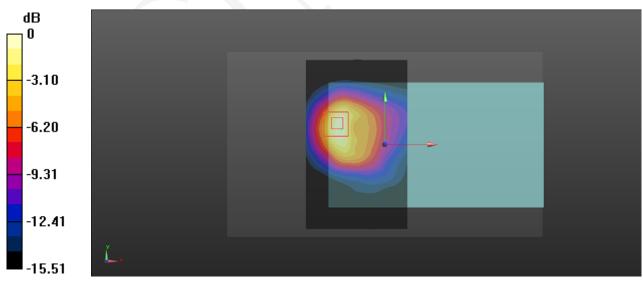
Body Back/GSM 850 Low/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.850 W/kg

Body Back/GSM 850 Low/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 11.75 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.66 W/kg

SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.379 W/kg

Maximum value of SAR (measured) = 0.952 W/kg



0 dB = 0.952 W/kg = -0.21 dBW/kg

Test Plot 3#:PCS 1900 Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

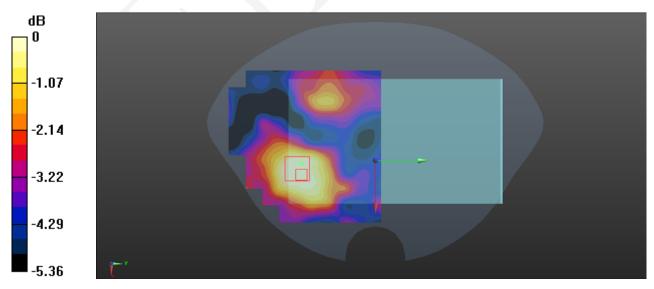
Communication System: Generic GSM; Frequency: 1880 MHz;Duty Cycle: 1:8 Medium parameters used: f = 1880 MHz; $\sigma = 1.407$ S/m; $\epsilon_r = 38.932$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.18, 8.18, 8.18); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

Head Flat/PCS 1900 Mid/Area Scan (91x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.0237 W/kg

Head Flat/PCS 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 2.891 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.0400 W/kg SAR(1 g) = 0.0214 W/kg; SAR(10 g) = 0.015 W/kg Maximum value of SAR (measured) = 0.0237 W/kg



0 dB = 0.0237 W/kg = -16.25 dBW/kg

Test Plot 4#:PCS 1900 Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

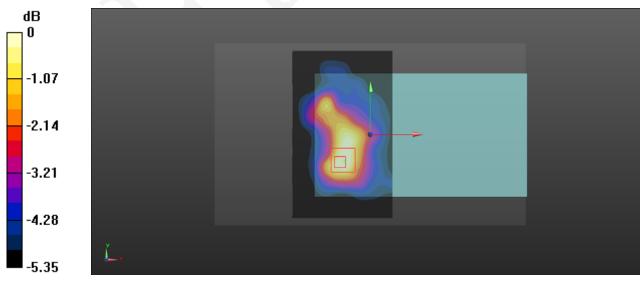
Communication System: Generic GPRS-4 slot; Frequency: 1880 MHz;Duty Cycle: 1:2 Medium parameters used: f = 1880 MHz; $\sigma = 1.493$ S/m; $\epsilon_r = 53.321$; $\rho = 1000$ kg/m³ Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(7.98, 7.98, 7.98); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

Body Back/PCS 1900 Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.240 W/kg

Body Back/PCS 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.540 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.336 W/kg SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.148 W/kg Maximum value of SAR (measured) = 0.223 W/kg



0 dB = 0.223 W/kg = -6.52 dBW/kg

SAR Evaluation Report

Test Plot 5#:WCDMA 850 MHz Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

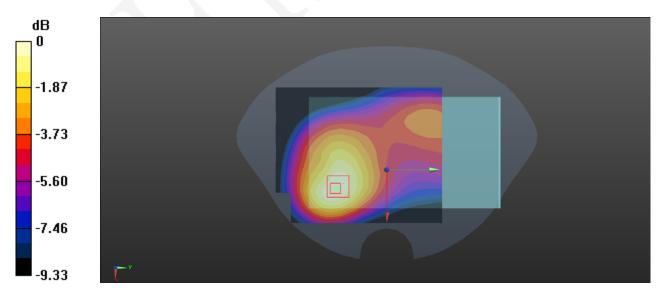
Communication System: Generic WCDMA; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 836.6 MHz; $\sigma = 0.895$ S/m; $\epsilon_r = 42.881$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(9.84, 9.84, 9.84); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

Head/WCDMA 850 Mid/Area Scan (91x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.213 W/kg

Head/WCDMA 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 9.405 V/m; Power Drift = 0.07 dB Peak SAR (extrapolated) = 0.283 W/kg SAR(1 g) = 0.199 W/kg; SAR(10 g) = 0.138 W/kg Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg = -6.72 dBW/kg

Test Plot 6#:WCDMA 850 Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

Communication System: Generic WCDMA; Frequency: 836.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 836.6 MHz; σ = 0.96 S/m; ϵ_r = 55.122; ρ = 1000 kg/m³ Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(9.89, 9.89, 9.89); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

Back/WCDMA 850 Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 1.28 W/kg

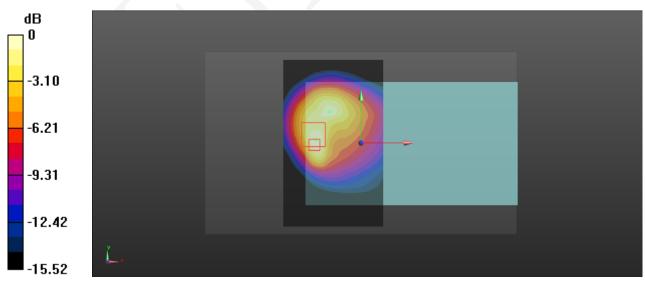
Back/WCDMA 850 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.78 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.618 W/kg

Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

Test Plot 7#:WCDMA BAND 4 Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

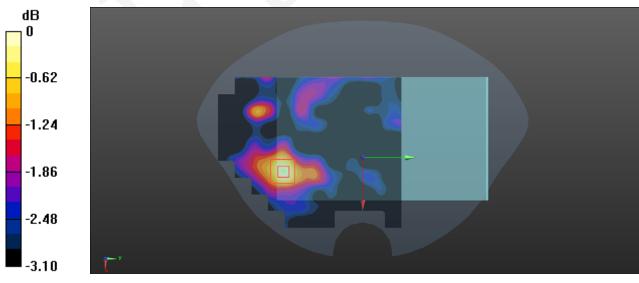
Communication System: Band IV; Frequency: 1732.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1732.6 MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.427$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.47, 8.47, 8.47); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

Head Flat/WCDMA 1700 Mid/Area Scan (91x111x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.0159 W/kg

Head Flat/WCDMA 1700 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 2.263 V/m; Power Drift = -0.03 dB Peak SAR (extrapolated) = 0.0560 W/kg SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.012 W/kg Maximum value of SAR (measured) = 0.0167 W/kg



0 dB = 0.0167 W/kg = -17.77 dBW/kg

Test Plot 8#:WCDMA BAND 4 Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

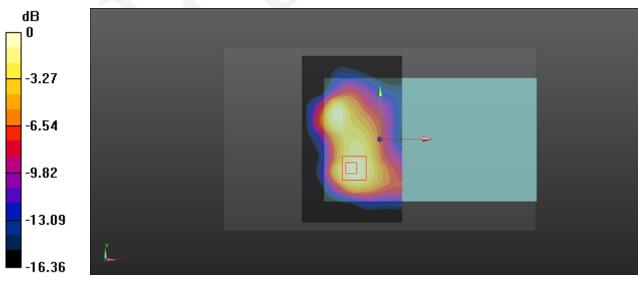
Communication System: Generic WCDMA; Frequency: 1732.6 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1732.6 MHz; $\sigma = 1.491$ S/m; $\epsilon_r = 53.315$; $\rho = 1000$ kg/m³ Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.24, 8.24, 8.24); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

Body Back/WCDMA 1700 Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.521 W/kg

Body Back/WCDMA 1700 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.567 V/m; Power Drift = 0.11 dB Peak SAR (extrapolated) = 0.738 W/kg SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.253 W/kg Maximum value of SAR (measured) = 0.487 W/kg



0 dB = 0.487 W/kg = -3.12 dBW/kg

Test Plot 9#:WCDMA 1900 Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

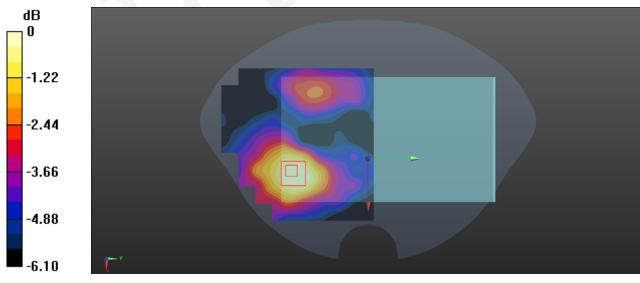
Communication System: Band II; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.407 S/m; ϵ_r = 38.932; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.18, 8.18, 8.18); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

Head Flat/WCDMA 1900 Mid/Area Scan (91x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.0341 W/kg

Head Flat/WCDMA 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 2.594 V/m; Power Drift = -0.16 dB Peak SAR (extrapolated) = 0.0480 W/kg SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.021 W/kg Maximum value of SAR (measured) = 0.0332 W/kg



0 dB = 0.0332 W/kg = -14.79 dBW/kg

Test Plot 10#:WCDMA 1900 Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

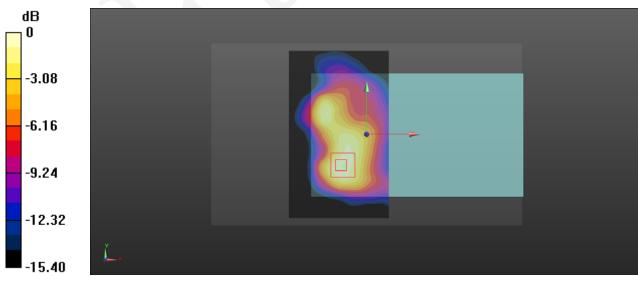
Communication System: Generic WCDMA; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.493 S/m; ϵ_r = 53.321; ρ = 1000 kg/m³ Phantom section: Center Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(7.98, 7.98, 7.98); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

Body Back/WCDMA 1900 Mid/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.279 W/kg

Body Back/WCDMA 1900 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.095 V/m; Power Drift = 0.16 dB Peak SAR (extrapolated) = 0.408 W/kg SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.132 W/kg Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg = -5.92 dBW/kg

Test Plot 11#:LTE Band 2 1RB Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

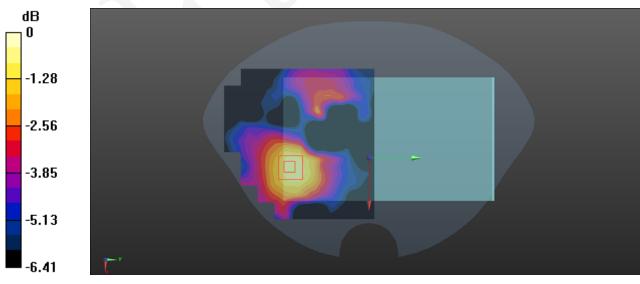
Communication System: Generic LTE; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.407 S/m; ϵ_r = 38.932; ρ = 1000 kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.18, 8.18, 8.18); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

Head Flat/LTE Band 2 1RB Mid/Area Scan (91x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.0118 W/kg

Head Flat/LTE Band 2 1RB Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 1.354 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 0.0210 W/kg SAR(1 g) = 0.0122 W/kg; SAR(10 g) = 0.00852 W/kg Maximum value of SAR (measured) = 0.0133 W/kg



0 dB = 0.0133 W/kg = -18.76 dBW/kg

Test Plot 12#:LTE Band 2 1RB Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

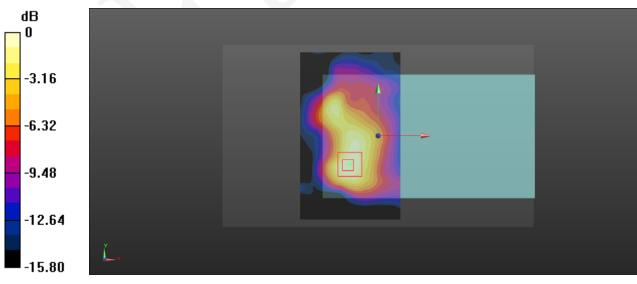
Communication System: Generic LTE; Frequency: 1880 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1880 MHz; σ = 1.493 S/m; ϵ_r = 53.321; ρ = 1000 kg/m³ Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(7.98, 7.98, 7.98); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

Body Back/LTE Band 2 1RB Mid /Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.199 W/kg

Body Back/LTE Band 2 1RB Mid /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 6.355 V/m; Power Drift = -0.09 dB Peak SAR (extrapolated) = 0.312 W/kg SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.103 W/kg Maximum value of SAR (measured) = 0.198 W/kg



0 dB = 0.198 W/kg = -7.03 dBW/kg

Test Plot 13#:LTE Band 4 1RB Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

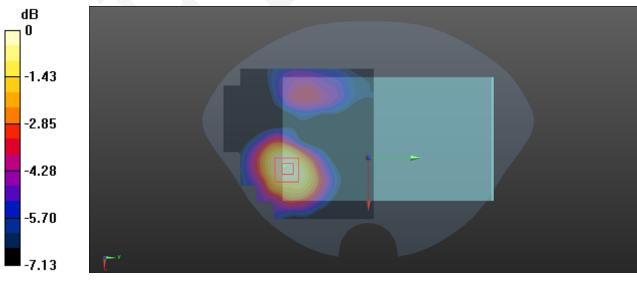
Communication System: Generic LTE; Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1732.5 MHz; $\sigma = 1.366$ S/m; $\varepsilon_r = 40.425$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.47, 8.47, 8.47); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: SAM 1; Type: QD000P40CC; Serial: TP:1412
- Measurement SW: DASY52, Version 52.8 (8);

Head Flat/LTE Band 4 1RB Mid/Area Scan (91x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.0343 W/kg

Head Flat/LTE Band 4 1RB Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 1.366 V/m; Power Drift = 0.20 dB Peak SAR (extrapolated) = 0.0480 W/kg SAR(1 g) = 0.0317 W/kg; SAR(10 g) = 0.021 W/kg Maximum value of SAR (measured) = 0.0339 W/kg



0 dB = 0.0339 W/kg = -14.70 dBW/kg

Test Plot 14#: LTE Band 4 1RB Mid

DUT: Tablet PC; Type: AFFIX T737; Serial: 16090200321

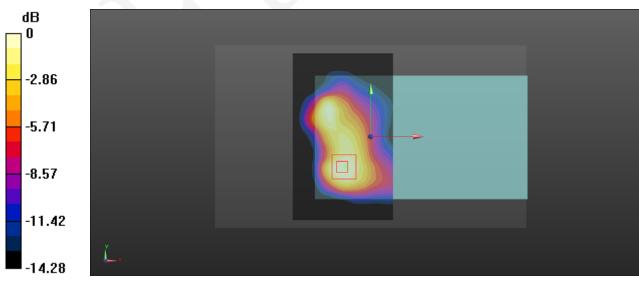
Communication System: Generic LTE; Frequency: 1732.5 MHz;Duty Cycle: 1:1 Medium parameters used: f = 1732.5 MHz; $\sigma = 1.491$ S/m; $\epsilon_r = 53.315$; $\rho = 1000$ kg/m³ Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 SN7431; ConvF(8.24, 8.24, 8.24); Calibrated: 2016/10/4;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn379; Calibrated: 2016/10/4
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: TP:1130
- Measurement SW: DASY52, Version 52.8 (8);

Body Back/LTE Band 4 1RB High/Area Scan (61x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 0.526 W/kg

Body Back/LTE Band 4 1RB High/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 8.169 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.702 W/kg SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.256 W/kg Maximum value of SAR (measured) = 0.469 W/kg



0 dB = 0.469 W/kg = -3.29 dBW/kg

APPENDIX A MEASUREMENT UNCERTAINTY

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

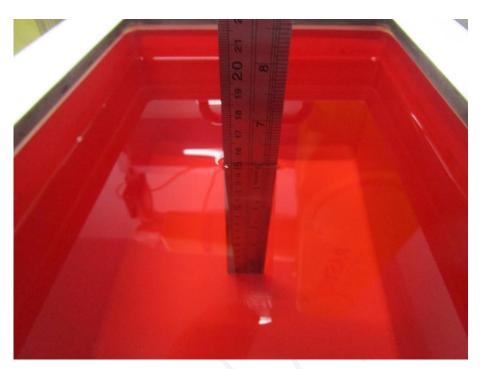
Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertainty ±%	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)	
Measurement system								
Probe calibration	6.55	Ν	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	e related					
Test sample positioning	2.8	N	1	1	1	2.8	2.8	
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3	
Drift of output power	5.0	R	√3	1	1	2.9	2.9	
		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	

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)	
Measurement system								
Probe calibration	6.55	Ν	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	e related	•	•			
Device holder Uncertainty	6.3	N	1	1	1	6.3	6.3	
Test sample positioning	2.8	N	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	

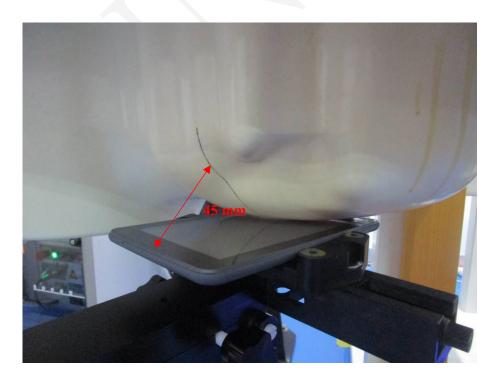
Measurement uncertainty evaluation for IEC62209-2 SAR test

APPENDIX B EUT TEST POSITION PHOTOS

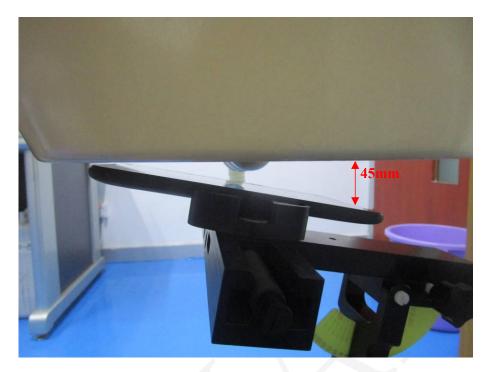


Liquid depth \geq 15cm

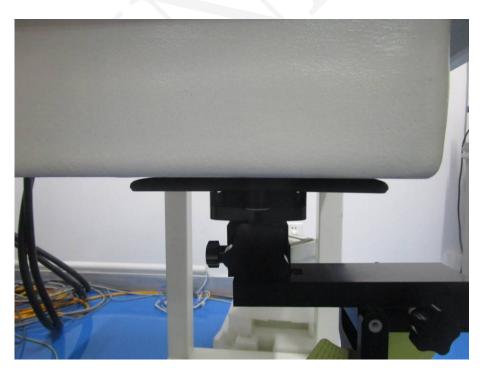
Head Position Setup Photo



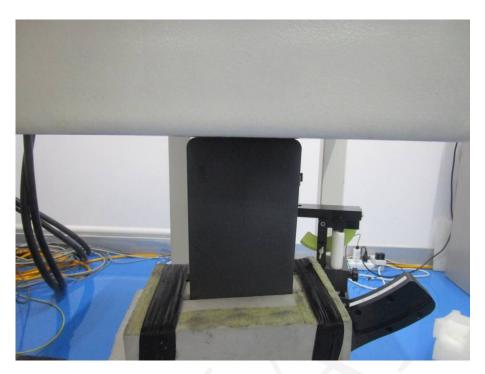
Head Flat Setup Photo



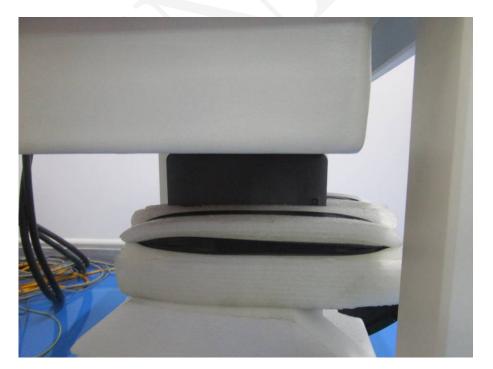
Body Back Setup Photo(0 mm)



Body Bottom Setup Photo(0 mm)



Body Right Setup Photo(0 mm)



APPENDIX C CALIBRATION CERTIFICATES

Please Refer to the Attachment.

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