



Dates of Evaluation  
May 07, 10, 12, 2010

Test Report Issue Date  
June 08, 2010

Test Report Serial No.  
041310KDZ-T1014-S24G

Test Report Revision No.  
Rev. 1.1 (2nd Release)

Description of Test(s)  
Specific Absorption Rate

RF Exposure Category  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

## SAR TEST REPORT (FCC/IC)

### RF EXPOSURE EVALUATION

### SPECIFIC ABSORPTION RATE

<b>APPLICANT / MANUFACTURER</b>		LXE INC.		
<b>DEVICE UNDER TEST (DUT)</b>		RUGGED HAND-HELD PC		
<b>DEVICE MODEL(S)</b>		MX9, FC300		
<b>DEVICE IDENTIFIER(S)</b>		FCC ID:	KDZLXEMX9GSM2G	IC: 1995B-MX9GSM2G
<b>INTERNAL TRANSMITTER(S)</b>		DUAL-BAND CELLULAR/PCS GPRS/EDGE		BLUETOOTH
<b>APPLICATION TYPE</b>		Class II Permissive Change:	Add Body-worn Holster accessories	
			Add Co-Transmitter (LXE 802.11b/g) FCC ID: KDZLXE4830P (Modular) IC: 1995B-4830M (Modular)	
<b>STANDARD(S) APPLIED</b>		FCC 47 CFR §2.1093		Health Canada Safety Code 6
		FCC KDB 447498 D01v04		FCC KDB 178919 D01v04r04
<b>PROCEDURE(S) APPLIED</b>		FCC KDB 648474 D01v01r05		FCC OET 65, Supp. C (01-01)
		IC RSS-102 Issue 4	IEEE 1528-2003	IEC 62209-2 (Draft)
<b>FCC DEVICE CLASSIFICATION(S)</b>		PCS Licensed Transmitter (PCB)		47 CFR §24 Subpart E
		Part 15 Spread Spectrum Transmitter (DSS)		47CFR §15 Subpart C
		Digital Transmission System (DTS)		47CFR §15 Subpart C
<b>IC DEVICE CLASSIFICATION(S)</b>		2 GHz Personal Communication Services		RSS-133 Issue 5
		800 MHz Cell. Tel. Employing New Technol.		RSS-132 Issue 2
		Low-Power Licence-Exempt Radio Device		RSS-210 Issue 7
<b>RF EXPOSURE CATEGORY</b>		General Population / Uncontrolled		
<b>RF EXPOSURE EVALUATION(S)</b>		Body-worn		
<b>DATE OF SAMPLE RECEIPT</b>		April 13, 2010		
<b>DATE(S) OF EVALUATION(S)</b>		May 07, 10, 12, 2010		
<b>TEST REPORT SERIAL NO.</b>		041310KDZ-T1014-S24G		
<b>TEST REPORT REVISION NO.</b>		Revision 1.1	See Page 4	June 08, 2010
		Revision 1.0	Initial Release	May 26, 2010
<b>TEST REPORT SIGNATORIES</b>		Testing Performed By		Test Report Prepared By
		Sean Johnston - Celltech Labs		Jon Hughes - Celltech Labs
<b>TEST LAB AND LOCATION</b>		Celltech Compliance Testing and Engineering Laboratory		
		21-364 Lougheed Road, Kelowna, B.C. V1X 7R8 Canada		
<b>TEST LAB CONTACT INFO.</b>		Tel.: 250-765-7650		Fax: 250-765-7645
		info@celltechlabs.com		www.celltechlabs.com
<b>TEST LAB ACCREDITATION(S)</b>		ISO/IEC 17025:2005 (A2LA Test Lab Certificate No. 2470.01)		

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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## DECLARATION OF COMPLIANCE SAR RF EXPOSURE EVALUATION

<b>Test Lab Information</b>		<b>Name</b>	CELLTECH LABS INC.		<b>Address</b>	21-364 Lougheed Road, Kelowna B.C. V1X 7R8 Canada								
<b>Applicant Information</b>		<b>Name</b>	LXE INC.		<b>Address</b>	125 Technology Parkway, Norcross, GA 30092-9200 USA								
<b>Standard(s) Applied</b>		<b>FCC</b>	47 CFR §2.1093			<b>IC</b>	Health Canada Safety Code 6							
<b>Procedure(s) Applied</b>		<b>FCC</b>	KDB 447498 D01v04			<b>KDB</b> 178919 D01v04r04	KDB 648474 D01v01r05							
		<b>FCC</b>	OET Bulletin 65, Supplement C (01-01)			<b>IC</b>	RSS-102 Issue 4							
		<b>IEEE</b>	1528-2003			<b>IEC</b>	62209-2 (Draft)							
<b>Device Classification(s)</b>		<b>FCC</b>	PCS Licensed Transmitter (PCB) - 47 CFR §24(E)			Spread Spectrum Transmitter (DSS) - 47 CFR §15(C)								
		<b>IC</b>	2 GHz Personal Comm. Services (RSS-133 Issue 5)			800MHz Cell. Tel. Emp. New Tech. (RSS-132 Issue 2)								
		<b>WLAN</b>	Digital Transmission System (DTS) - 47 CFR §15(C)			Low-Power Licence-Exempt Radio (RSS-210 Issue 7)								
<b>Application Type</b>	<b>FCC/IC</b>	Class II Permissive Change			1. Add Body-worn Holster accessories									
					2. Add simultaneous transmission with LXE 802.11b/g WLAN Module									
					(Co-Transmitter: LXE 802.11b/g WLAN - LMA FCC ID: KDZLXE4830P)									
<b>Device Identifier(s)</b>		<b>FCC ID:</b>	KDZLXEMX9GSM2G		<b>IC:</b>	1995B-MX9GSM2G		<b>Models</b>						
<b>Device Under Test (DUT)</b>		Rugged Hand-held PC		<b>Hardware Version</b>	163730-0001		<b>Software Version</b>	WANG1GSM01A						
<b>Internal Transmitter(s) Tested</b>		Dual-Band Cellular/PCS GPRS/EDGE		LXE 802.11b/g WLAN (Modular FCC ID: KDZLXE4830P; IC: 1995B-4830M)										
<b>Simultaneous Transmission</b>	WWAN-WLAN		WWAN-Bluetooth		WLAN-Bluetooth		WWAN-WLAN-Bluetooth							
	Simultaneous transmission assessment of the WWAN and WLAN is addressed within this test report (see Section 7)													
	WWAN-BT & WLAN-BT simultaneous transmission complies with the provisions of FCC KDB 447498 Section 3(b)(1)													
<b>Test Sample Serial No.(s)</b>		<b>MX9</b>	MX910053747 (Identical Prototype)			<b>802.11b/g WLAN</b>	SDC-CF10G (Production Unit)							
<b>Transmit Frequency Range(s)</b>	<b>WWAN</b>	824.2 - 848.8 MHz		Cellular Band		<b>802.11b/g WLAN</b>	2412 - 2462 MHz							
		1850.2 - 1909.8 MHz		PCS Band		<b>Bluetooth</b>	2402 - 2480 MHz							
<b>Max. RF Output Power Tested</b>	<b>Band</b>	<b>Mode</b>		<b>Frequency</b>	<b>Channel</b>	<b>dBm</b>	<b>Watts</b>	<b>Method</b>						
	<b>Cellular</b>	GPRS (4-Up/1-Down)		824.2 MHz	128	32.1	1.62	Conducted (BAP)						
				836.6 MHz	190	32.1	1.62	Conducted (BAP)						
				848.8 MHz	251	32.3	1.70	Conducted (BAP)						
	<b>PCS</b>	GPRS (4-Up/1-Down)		1850.2 MHz	512	29.3	0.851	Conducted (BAP)						
	<b>WLAN</b>	802.11b 1 Mbps	<b>MAIN Ant.</b>	2437 MHz	6	14.9	0.031	Conducted (Aver.)						
			<b>AUX Ant.</b>	2437 MHz	6	15.0	0.032	Conducted (Aver.)						
<b>GPRS/EDGE Multi-slot Class</b>		<b>12</b>	4 Uplink / 4 Downlink		<b>5 Slots Maximum</b>	<b>Power Class</b>	Cellular GPRS: 4	PCS GPRS: 1						
<b>Antenna Type(s) Tested</b>		<b>WWAN</b>	Internal			<b>802.11b/g WLAN</b>	Internal - Transmit Diversity (MAIN/AUX)							
<b>Antenna-to-Antenna Spacing</b>		WWAN-to-WLAN (AUX) = 2.6 cm			WWAN-to-WLAN (MAIN) = 7.5 cm		WWAN-to-Bluetooth = 8.6 cm							
		WLAN AUX-to-Bluetooth = 10.2 cm			WLAN MAIN-to-Bluetooth = 11.5 cm		-							
<b>Power Source(s) Tested</b>		Lithium-ion Rechargeable Battery - P/N: 161888-0001 (10.8V, 27Wh)												
<b>Body-worn Accessories &amp; Configurations Tested</b>		1. Holster accessory - P/N: FC3422HOLSTER - Contains Metal "D" Ring - Keypad Side of DUT facing user's body												
		2. Holster accessory - P/N: MX9420HOLSTER - Contains Metal Grommet - Keypad Side of DUT facing user's body												
		3. Left Keypad Side of DUT - 2.0 cm air-gap spacing (provision of holster accessory with left side of DUT facing user's body)												
		4. Right Keypad Side of DUT - Touch position (provision of holster accessory with right side of DUT facing user's body)												
<b>Max. Co-Transmission SAR (WWAN &amp; WLAN Summation)</b>		<b>BODY</b>	<b>0.988 W/kg</b>	1g average	850 GPRS & 802.11b WLAN	<b>FCC/IC SAR Limit</b>	<b>1.6 W/kg</b>	1g average						

Celltech Labs Inc. declares under its sole responsibility that this wireless device is compliant with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6 for the General Population / Uncontrolled Exposure environment. The device was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01), , Industry Canada RSS-102 Issue 4, IEEE 1528-2003 and IEC 62209-2 (Draft). All measurements were performed in accordance with the SAR system manufacturer recommendations.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

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

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**Test Report Approved By**

Sean Johnston

Lab Manager

Celltech Labs Inc.

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
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Test Lab Certificate No. 2470.01

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<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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### REVISION HISTORY

REVISION NO.	DESCRIPTION	RELEASE DATE
1.0	Initial Release	May 26, 2010
1.1	Add Hand-held PC Model No. FC300	June 08, 2010
	Add WLAN Module IC Certification No.	

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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## 1.0 INTRODUCTION

This measurement report demonstrates that the LXE Inc. Models: MX9, FC300 Rugged Hand-held PC with internal Dual-Band GPRS/EDGE and Bluetooth, under the Class II Permissive Change of adding simultaneous transmission with LXE Model: 4830 802.11b/g WLAN Module (FCC ID: KDZLXE4830P and IC: 1995B-4830M), complies with the SAR (Specific Absorption Rate) RF exposure requirements specified in FCC 47 CFR §2.1093 (see reference [1]) and Health Canada's Safety Code 6 (see reference [2]) for the General Population / Uncontrolled Exposure environment. The test procedures described in FCC OET Bulletin 65, Supplement C, Edition 01-01 (see reference [3]), Industry Canada RSS-102 Issue 4 (see reference [4]), IEEE 1528-2003 (see reference [5]) and IEC 62209-2 (Draft - see reference [6]) were employed. A description of the product and operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used, and the various provisions of the appropriate standards and procedures are included within this test report.

## 2.0 SAR MEASUREMENT SYSTEM

Celltech Labs Inc. SAR measurement facility utilizes the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 measurement system is comprised of the measurement server, robot controller, computer, near-field probe, probe alignment sensor, specific anthropomorphic mannequin (SAM) phantom, and various planar phantoms for brain and/or body SAR evaluations. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the DASY4 measurement server. The DAE4 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter and a command decoder and control logic unit. Transmission to the DASY4 measurement server is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot utilizes a controller with built in VME-bus computer.

## 3.0 OUTPUT POWER MEASUREMENTS

### MEASURED RF CONDUCTED OUTPUT POWER LEVELS

Frequency MHz	Channel	Mode	Conducted Power Level		
			dBm	Watts	Method
824.2	128	Cellular GPRS - 4 Uplink / 1 Downlink	32.1	1.62	Burst Average
836.6	190	Cellular GPRS - 4 Uplink / 1 Downlink	32.1	1.62	Burst Average
848.8	251	Cellular GPRS - 4 Uplink / 1 Downlink	32.3	1.70	Burst Average
1850.2	512	PCS GPRS - 4 Uplink / 1 Downlink	29.3	0.851	Burst Average
2437	6	WLAN 802.11b - 1 Mbps - MAIN Antenna	14.9	0.031	Average
2437	6	WLAN 802.11b - 1 Mbps - AUX Antenna	15.0	0.032	Average
<b>Notes</b>					
1. The RF conducted output power levels of the WWAN and WLAN transmitters were measured at the appropriate antenna connector internal to the DUT prior to the SAR evaluation using a Gigatronics 8652A Universal Power Meter.					

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
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## 4.0 MEASURED FLUID DIELECTRIC PARAMETERS

825 MHz Body - May 12, 2010			835 MHz Body - May 12, 2010			845 MHz Body - May 12, 2010					
Dielectric Constant $\epsilon_r$			Dielectric Constant $\epsilon_r$			Dielectric Constant $\epsilon_r$					
835 Target		Meas.	Dev.	835 Target		Meas.	Dev.	835 Target		Meas.	Dev.
55.2	$\pm 5\%$	54.1	-2.0%	55.2	$\pm 5\%$	54.1	-2.0%	55.2	$\pm 5\%$	54.0	-2.2%
Conductivity $\sigma$ (mho/m)				Conductivity $\sigma$ (mho/m)				Conductivity $\sigma$ (mho/m)			
835 Target		Meas.	Dev.	835 Target		Meas.	Dev.	835 Target		Meas.	Dev.
0.97	$\pm 5\%$	0.96	-1.0%	0.97	$\pm 5\%$	0.97	0.0%	0.97	$\pm 5\%$	0.98	+1.0%
1850 MHz Body - May 10, 2010				2440 MHz Body - May 7, 2010				Intentionally Left Blank			
Dielectric Constant $\epsilon_r$				Dielectric Constant $\epsilon_r$				Intentionally Left Blank			
1900 Target		Meas.	Dev.	2450 Target		Meas.	Dev.	Intentionally Left Blank			
53.3	$\pm 5\%$	51.7	-3.0%	52.7	$\pm 5\%$	51.6	-2.1%	Intentionally Left Blank			
Conductivity $\sigma$ (mho/m)				Conductivity $\sigma$ (mho/m)				Intentionally Left Blank			
1900 Target		Meas.	Dev.	2450 Target		Meas.	Dev.	Intentionally Left Blank			
1.52	$\pm 5\%$	1.49	-2.0%	1.95	$\pm 5\%$	2.00	+2.5%	Intentionally Left Blank			

## Notes

1. The dielectric parameters of the simulated tissue mixtures were measured prior to the SAR evaluations using an HP 85070C Dielectric Probe Kit and HP 8753ET Network Analyzer (see Appendix C).
2. The fluid temperature was measured prior to and after the SAR evaluations to ensure the temperature remained within  $\pm 2^\circ\text{C}$  of the fluid temperature reported during the dielectric parameter measurements.

Date	Fluid Type	$\rho$ (Kg/m <sup>3</sup> )	Ambient Temperature	Fluid Temperature	Fluid Depth	Relative Humidity	Atmospheric Pressure
May 12	835 Body	1000	23.8 °C	22.5 °C	≥ 15 cm	35%	101.1 kPa
May 10	1900 Body	1000	24.3 °C	23.4 °C	≥ 15 cm	35%	101.1 kPa
May 07	2450 Body	1000	25.0 °C	23.5 °C	≥ 15 cm	35%	101.1 kPa

## 5.0 SAR PROBE CALIBRATION & MEASUREMENT FREQUENCIES

The following procedures are recommended for measurements at 150 MHz - 3 GHz to minimize probe calibration and tissue dielectric parameter discrepancies. In general, SAR measurements below 300 MHz should be within  $\pm 50$  MHz of the probe calibration frequency. At 300 MHz to 3 GHz, measurements should be within  $\pm 100$  MHz of the probe calibration frequency. Measurements exceeding 50% of these intervals,  $\pm 25$  MHz  $<$  300 MHz and  $\pm 50$  MHz  $\geq$  300 MHz, require additional steps (per FCC KDB 450824 D01 v01r01, SAR Probe Calibration and System Verification Considerations for Measurements at 150 MHz - 3 GHz - see reference [9]).

Probe Calibration Freq.	Device Measurement Freq.	Frequency Interval	$\pm 50 \text{ MHz} \geq 300 \text{ MHz}$
835 MHz	824.2 MHz	10.8 MHz	< 50 MHz
	836.6 MHz	1.6 MHz	< 50 MHz
	848.8 MHz	13.8 MHz	< 50 MHz
1900 MHz	1850.2 MHz	49.8 MHz	< 50 MHz
2450 MHz	2437.0 MHz	13 MHz	< 50 MHz

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<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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## 6.0 SAR MEASUREMENT SUMMARY

### BODY SAR MEASUREMENT SUMMARY (1g) - LXE MX9 HAND-HELD PC (850/1900/2450 Bands)

Test Date	Internal Tx'mitter	Freq. Band	Test Freq. MHz	Chan.	Test Mode	Antenna	Body-worn Accessory	DUT Position to Planar Phantom	Conducted Power Before Test	SAR Drift During Test	Measured SAR Levels
									dBm	dB	W/kg (1g)
May 12	WWAN	850	824.2	128	GPRS 4 Slots	WWAN	FC3422HOLSTER	Keypad Side	32.1	0.175	0.027
			MX9420HOLSTER	Keypad Side			32.1	0.206	0.045		
			None (2.0 cm air-gap spacing)	Left Side			32.1	-0.118	0.859		
			32.1	0.027			0.957				
			836.6	190			32.3	-0.130	0.803		
		848.8	251	128			None (Touch position)	Right Side	32.1	0.235	0.450
May 10	1900	1850.2	512	GPRS 4 Slots	WWAN	WWAN	FC3422HOLSTER	Keypad Side	29.3	0.160	0.045
							MX9420HOLSTER	Keypad Side	29.3	-0.018	0.034
							None (2.0 cm air-gap spacing)	Left Side	29.3	-0.196	0.591
							None (Touch position)	Right Side	29.3	-0.014	0.108
May 07	WLAN	2450	2437.0	6	802.11b 1 Mbps	AUX	FC3422HOLSTER	Keypad Side	15.0	-0.050	0.024
							MX9420HOLSTER	Keypad Side	15.0	0.171	0.050
							None (2.0 cm air-gap spacing)	Left Side	15.0	-0.075	0.031
						MAIN	FC3422HOLSTER	Keypad Side	14.9	0.171	0.023
							MX9420HOLSTER	Keypad Side	14.9	0.147	0.040
							None (Touch position)	Right Side	14.9	0.159	0.283

#### SAR LIMIT(S)

BODY

SPATIAL PEAK

RF EXPOSURE CATEGORY

FCC 47 CFR 2.1093

Health Canada Safety Code 6

1.6 W/kg

averaged over 1 gram

General Population / Uncontrolled

#### Notes

1. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
2. The test frequencies selected are based on the provisions set forth in FCC KDB 447498 D01v04 Section 1) e) i).
3. The WWAN SAR evaluations were performed with an established air-link between the DUT & Agilent 8960 E5515C Wireless Communications Test Set.
4. The WLAN SAR evaluations were performed utilizing the WLAN module manufacturer's proprietary test mode software program installed in the DUT and controlled via the keypad.
5. The reported power drift of the DUT was measured by the DASY4 system.
6. The DUT battery was fully charged prior to the SAR evaluations.

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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## 7.0 SIMULTANEOUS TRANSMISSION ASSESSMENT

Assessment of the DUT for simultaneous transmission was based on applying the provision of FCC KDB 447498 D01v04 Section 4(d) (see reference [7]) whereby the applicable criteria of FCC KDB 648474 D01v04 (see reference [8]) was further implemented as described below. The antenna distances were provided by LXE.

Co-located Transmitters:	WWAN can transmit simultaneously with WLAN WWAN can transmit simultaneously with Bluetooth WLAN can transmit simultaneously with Bluetooth WWAN, WLAN and Bluetooth can all transmit simultaneously
Antenna-to-Antenna Spacing:	WWAN to WLAN AUX = 2.6 cm WWAN to WLAN MAIN = 7.5 cm WWAN to Bluetooth = 8.6 cm WLAN AUX to Bluetooth = 10.2 cm WLAN MAIN to Bluetooth = 11.5 cm
Antenna-to-User Distances:	WWAN with FC3422HOLSTER accessory = 5.0 cm WWAN with MX9420HOLSTER accessory = 4.2 cm WWAN - Left Side of DUT - 2 cm air-gap = 3.2 cm WWAN - Right Side of DUT - 0 cm air-gap = 8.3 cm WLAN with FC3422HOLSTER accessory = 2.4 cm WLAN with MX9420HOLSTER accessory = 1.6 cm WLAN AUX - Left Side of DUT - 2 cm air-gap = 2.7 cm WLAN MAIN - Right Side of DUT - 0 cm air-gap = 0.7 cm

SUM OF MAXIMUM 1g SAR LEVELS MEASURED								
Test Position	Simultaneous Transmission	Band	Frequency	Channel	Mode	1g SAR Level	SAR Summation	
						W/kg	W/kg	
Left Side 2.0 cm Air-Gap	WWAN (Cell)	850	836.6	190	GPRS	0.957	0.988	
	WLAN (AUX)	2450	2437.0	6	802.11b	0.031		
Right Side Touch	WWAN (Cell)	850	824.2	128	GPRS	0.450	0.733	
	WLAN (MAIN)	2450	2437.0	6	802.11b	0.283		
Left Side 2.0 cm Air-Gap	WWAN (PCS)	1900	1850.2	512	GPRS	0.591	0.622	
	WLAN (AUX)	2450	2437.0	6	802.11b	0.031		
Right Side Touch	WWAN (PCS)	1900	1850.2	512	GPRS	0.108	0.391	
	WLAN (AUX)	2450	2437.0	6	802.11b	0.283		
<b>Notes</b>								
1. Per FCC TCB Workshop Presentation Material (7-9 October 2008) - Review of Selected Concepts from RF Exposure Basic KDB Publications - KDB 648474 cellphone criteria - Page 14 (Oct08 Harrington rev3): a: sim-Tx, sum-SAR<1.6W/kg, no sim-Tx SAR b: sim-Tx, sum-SAR≥1.6W/kg, SPLSRxy<0.3, no sim-Tx SAR c: sim-Tx, sum-SAR≥1.6W/kg, SPLSRxy≥0.3, DO sim-Tx SAR								
2. The maximum conducted output power of the Bluetooth (1 mW) is below 12 mW ( $P_{Ref}$ ) and therefore stand-alone SAR evaluation was not required (per FCC KDB 648474 Table 1). The SAR level of the Bluetooth is considered as 0.								

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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Test Lab Certificate No. 2470.01

## 8.0 DETAILS OF SAR EVALUATION

The LXE Inc. Models: MX9, FC300 Rugged Hand-held PC with internal Dual-Band GPRS/EDGE and Bluetooth, under the Class II Permissive Change of adding simultaneous transmission with the LXE Model: 4830 802.11b/g WLAN Module (FCC ID: KDZLXE4830P and IC: 1995B-4830M) was compliant for localized Specific Absorption Rate (Uncontrolled Exposure) based on the test provisions and conditions described below. The detailed test setup photographs are shown in Appendix D.

### Test Configuration(s)

1. The DUT was evaluated for body SAR with the Hand-held PC placed inside the FC3422HOLSTER accessory with the keypad side facing the back side of the holster and the top end of the DUT facing the top end of the holster. The back side of the holster accessory was placed parallel and touching the outer surface of the SAM phantom (planar section). The holster accessory provided a 1.8 cm spacing from the keypad side of the DUT to the SAM phantom (planar section).
2. The DUT was evaluated for body SAR with the Hand-held PC placed inside the MX9420HOLSTER accessory with the keypad side facing the back side of the holster and the top end of the DUT facing the bottom end of the holster. The back side of the holster accessory was placed parallel and touching the outer surface of the SAM phantom (planar section). The holster accessory provided a 1.0 cm spacing from the keypad side of the DUT to the SAM phantom (planar section).
3. The DUT was evaluated for body SAR with the left keypad side placed parallel to the outer surface of the SAM phantom (planar section) and a 2.0 cm air-gap separation distance. This test configuration is intended for the provision of an LXE body-worn holster accessory that will position the DUT with the left keypad side facing the user's body.
4. The DUT was evaluated for body SAR with the right keypad side placed parallel and touching the outer surface of the SAM phantom (planar section). This test configuration is intended for the provision of an LXE body-worn holster accessory that will position the DUT with the right keypad side facing the user's body.

## 9.0 EVALUATION PROCEDURES

- (i) The evaluation was performed in the applicable area of the phantom depending on the type of device being tested. For devices held to the ear during normal operation, both the left and right ear positions were evaluated using the SAM phantom.  
 (ii) For body-worn and face-held devices a planar phantom was used.
- b. The SAR was determined by a pre-defined procedure within the DASY4 software. Upon completion of a reference and optical surface check, the exposed region of the phantom was scanned near the inner surface with a grid spacing of 15mm x 15mm.  
 An area scan was determined as follows:
- c. Based on the defined area scan grid, a more detailed grid is created to increase the points by a factor of 10. The interpolation function then evaluates all field values between corresponding measurement points.
- d. A linear search is applied to find all the candidate maxima. Subsequently, all maxima are removed that are >2 dB from the global maximum. The remaining maxima are then used to position the cube scans.  
 A 1g and 10g spatial peak SAR was determined as follows:
- e. Extrapolation is used to determine the values between the dipole center of the probe and the surface of the phantom. For E-Field Probe EX3DV4 this data cannot be measured because the center of the dipole sensors is 1.0 mm away from the probe tip and the distance between the probe and the boundary must be larger than 25% of the probe diameter. The probe diameter is 2.4 mm (see probe calibration document in Appendix F). In the DASY4 software, the distance between the sensor center and phantom surface is set to 2.0 mm. This provides a distance of 1.0 mm between the probe tip and the surface. For E-Field Probe ET3DV6 this data cannot be measured, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.4 mm (see probe calibration document in Appendix F). The extrapolation of the values between the dipole center and the surface of the phantom was based on trivariate quadratics computed from the previously calculated 3D interpolated points nearest the phantom surface.
- f. Interpolated data is used to calculate the average SAR over 1g and 10g cubes by spatially discretizing the entire measured cube. The volume used to determine the averaged SAR is a 1mm grid (42875 interpolated points).
- g. A zoom scan volume of 32 mm x 32 mm x 30 mm (5 x 5 x 7 points) centered at the peak SAR location determined from the area scan is used for all zoom scans for devices with a transmit frequency < 800 MHz. Zoom scans for frequencies ≥ 800 MHz are determined with a scan volume of 30 mm x 30 mm x 30 mm (7 x 7 x 7) to ensure complete capture of the peak spatial-average SAR.

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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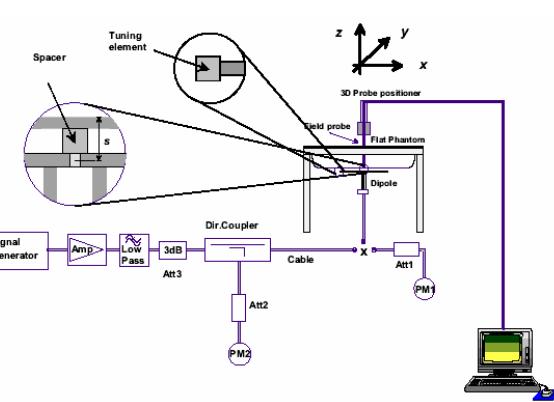
## 10.0 SYSTEM PERFORMANCE CHECK

Prior to the SAR evaluations daily system checks were performed at the planar section of the SAM phantom with 835 MHz, 1900 MHz and 2450 MHz SPEAG dipoles (see Appendix B for system performance check evaluation plots) in accordance with the procedures described in IEEE Standard 1528-2003 (see reference [5]). The dielectric parameters of the simulated tissue mixtures were measured prior to the system performance checks using an HP 85070C Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C). A forward power of 250 mW was applied to the dipole and the system was verified to a tolerance of  $\pm 10\%$  from the system manufacturer's dipole calibration target SAR values (see Appendix E for system manufacturer's dipole calibration procedures).

### SYSTEM PERFORMANCE CHECK EVALUATION RESULTS

Test Date	Fluid Freq.	SAR 1g (W/kg)			Dielectric Constant $\epsilon_r$			Conductivity $\sigma$ (mho/m)			$\rho$ (Kg/m <sup>3</sup> )	Amb. Temp. (°C)	Fluid Temp. (°C)	Fluid Depth (cm)	Humid. (%)	Barom. Press. (kPa)
		Body (MHz)	SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.	Dev.					
May 12	835	2.49 $\pm 10\%$	2.33	-6.4%	55.2 $\pm 5\%$	54.1	-2.0%	0.97 $\pm 5\%$	0.97	0.0%	1000	23.5	22.8	$\geq 15$	35	101.1
May 10	1900	10.6 $\pm 10\%$	10.6	0.0%	53.3 $\pm 5\%$	51.7	-3.0%	1.52 $\pm 5\%$	1.55	+2.0%	1000	24.1	23.2	$\geq 15$	35	101.1
May 07	2450	12.9 $\pm 10\%$	14.0	+8.5%	52.7 $\pm 5\%$	51.5	-2.3%	1.95 $\pm 5\%$	2.02	+3.6%	1000	25.3	23.8	$\geq 15$	35	101.1

Notes	1. The target SAR values are the measured values from the dipole calibration performed by SPEAG (see Appendix E).
	2. The target dielectric parameters are the nominal values from the dipole calibration performed by SPEAG (see Appendix E).
	3. The fluid temperature was measured prior to and after the system performance check to ensure the temperature remained within $\pm 2^\circ\text{C}$ of the fluid temperature reported during the dielectric parameter measurements.
	4. The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer (see Appendix C).

				System Performance Check Setup (IEEE 1528-2003)	835 MHz Validation Dipole	1900 MHz Validation Dipole	2450 MHz Validation Dipole

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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## 11.0 SIMULATED EQUIVALENT TISSUES

The simulated equivalent tissue recipes listed in the table below are derived from the SAR system manufacturer's suggested recipe in the DASY4 manual (see references [10] and [11]) in accordance with the procedures and requirements specified in IEEE Standard 1528-2003 (see reference [5]). The ingredient percentage may have been adjusted minimally in order to achieve the appropriate target dielectric parameters within the specified tolerance.

835 MHz TISSUE MIXTURES		
INGREDIENT	835 MHz Head	835 MHz Body
Water	40.71 %	53.79 %
Sugar	56.63 %	45.13 %
Salt	1.48 %	0.98 %
HEC	0.99 %	--
Bactericide	0.19 %	0.10 %

1900 MHz TISSUE MIXTURES		
INGREDIENT	1900 MHz Head	1900 MHz Body
Water	55.85 %	69.85 %
Glycol Monobutyl	44.00 %	29.89 %
Salt	0.15 %	0.26 %

2450 MHz TISSUE MIXTURES		
INGREDIENT	2450 MHz Head	2450 MHz Body
Water	52.00 %	69.98 %
Glycol Monobutyl	48.00 %	30.00 %
Salt	-	0.02 %

## 12.0 SAR LIMITS

SAR RF EXPOSURE LIMITS			
FCC 47 CFR 2.1093	Health Canada Safety Code 6	(General Population / Uncontrolled Exposure)	(Occupational / Controlled Exposure)
Spatial Average (averaged over the whole body)		0.08 W/kg	0.4 W/kg
Spatial Peak (averaged over any 1g of tissue)		1.6 W/kg	8.0 W/kg
Spatial Peak (hands/wrists/feet/ankles averaged over 10g)		4.0 W/kg	20.0 W/kg
The Spatial Average value of the SAR averaged over the whole body.			
The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.			
The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.			
Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.			
Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.			

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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## 13.0 ROBOT SYSTEM SPECIFICATIONS

<u>Specifications</u>	
<b>Positioner</b>	Stäubli Unimation Corp. Robot Model: RX60L
<b>Repeatability</b>	0.02 mm
<b>No. of axis</b>	6
<u>Data Acquisition Electronic (DAE) System</u>	
<u>Cell Controller</u>	
<b>Processor</b>	AMD Athlon XP 2400+
<b>Clock Speed</b>	2.0 GHz
<b>Operating System</b>	Windows XP Professional
<u>Data Converter</u>	
<b>Features</b>	Signal Amplifier, multiplexer, A/D converter, and control logic
<b>Software</b>	Measurement Software: DASY4, V4.7 Build 44
	Postprocessing Software: SEMCAD, V1.8 Build 171
<b>Connecting Lines</b>	Optical downlink for data and status info.; Optical uplink for commands and clock
<u>DASY4 Measurement Server</u>	
<b>Function</b>	Real-time data evaluation for field measurements and surface detection
<b>Hardware</b>	PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM
<b>Connections</b>	COM1, COM2, DAE, Robot, Ethernet, Service Interface
<u>E-Field Probe</u>	
<u>Probe (850 Band)</u>	
<b>Model</b>	ET3DV6
<b>Serial No.</b>	1590
<b>Construction</b>	Triangular core fiber optic detection system
<b>Frequency</b>	10 MHz to 6 GHz
<b>Linearity</b>	±0.2 dB (30 MHz to 3 GHz)
<u>Probe (1900 Band)</u>	
<b>Model</b>	EX3DV4
<b>Serial No.</b>	3600
<b>Construction</b>	Symmetrical design with triangular core
<b>Frequency</b>	10 MHz to 6 GHz
<b>Linearity</b>	±0.2 dB (30 MHz to 3 GHz)
<u>Phantom(s)</u>	
<b>Type</b>	SAM V4.0C
<b>Shell Material</b>	Fiberglass
<b>Thickness</b>	2.0 ±0.1 mm
<b>Volume</b>	Approx. 25 liters

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
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## 14.0 PROBE SPECIFICATIONS

### ET3DV6 E-Field Probe

Construction: Symmetrical design with triangular core  
Built-in shielding against static charges  
PEEK enclosure material (resistant to organic solvents, glycol)

Calibration: In air from 10 MHz to 2.5 GHz  
In brain simulating tissue at frequencies of 900 MHz and 1.8 GHz (accuracy  $\pm$  8%)

Frequency: 10 MHz to  $>$  6 GHz; Linearity:  $\pm$  0.2 dB  
(30 MHz to 3 GHz)

Directivity:  $\pm$  0.2 dB in brain tissue (rotation around probe axis)  
 $\pm$  0.4 dB in brain tissue (rotation normal to probe axis)

Dynamic Range: 5  $\mu$ W/g to  $>$  100 mW/g; Linearity:  $\pm$  0.2 dB

Surface Detect:  $\pm$  0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces

Dimensions: Overall length: 330 mm  
Tip length: 16 mm  
Body diameter: 12 mm  
Tip diameter: 6.8 mm  
Distance from probe tip to dipole centers: 2.7 mm

Application: General dosimetry up to 3 GHz  
Compliance tests of mobile phone



ET3DV6 E-Field Probe

### EX3DV4 E-Field Probe

Construction: Symmetrical design with triangular core  
Built-in shielding against static charges  
PEEK enclosure material (resistant to organic solvents, e.g. DGBE)

Calibration: Basic Broadband Calibration in air: 10-3000 MHz  
Conversion Factors (CF) for HSL 900 and HSL 1750

Frequency: 10 MHz to  $>$  6 GHz; Linearity:  $\pm$  0.2 dB (30 MHz to 3 GHz)

Directivity:  $\pm$  0.3 dB in HSL (rotation around probe axis)  
 $\pm$  0.5 dB in tissue material (rotation normal to probe axis)

Dynamic Range: 10  $\mu$ W/g to  $>$  100 mW/g; Linearity:  $\pm$  0.2 dB  
(noise: typically  $<$  1  $\mu$ W/g)

Dimensions: Overall length: 330 mm (Tip: 20 mm)  
Tip diameter: 2.5 mm (Body: 12 mm)  
Typical distance from probe tip to dipole centers: 1.0 mm

Application: High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better than 30%.



EX3DV4 E-Field Probe

## 15.0 SAM TWIN PHANTOM V4.0C

The SAM Twin Phantom V4.0C is a fiberglass shell phantom with a 2.0 mm (+/-0.2 mm) shell thickness for left and right head and flat planar area integrated in a wooden table. The shape of the fiberglass shell corresponds to the phantom defined by SCC34-SC2. The device holder positions are adjusted to the standard measurement positions in the three sections (see Appendix G for specifications of the SAM Twin Phantom V4.0C).



SAM Twin Phantom V4.0C

## 16.0 DEVICE HOLDER

The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. 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. For evaluation of devices with a larger footprint (e.g. Laptop PC, Tablet PC), or to avoid perturbation due to device holder clamps for devices with a smaller footprint, a Plexiglas platform is attached to the device holder.



Device Holder

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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June 08, 2010

Description of Test(s)  
Specific Absorption Rate

RF Exposure Category  
Gen. Pop. / Uncontrolled



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## 17.0 TEST EQUIPMENT LIST

TEST EQUIPMENT		ASSET NO.	SERIAL NO.	DATE CALIBRATED	CALIBRATION INTERVAL
USED	DESCRIPTION				
x	Schmid & Partner DASY4 System	-	-	-	-
x	-DASY4 Measurement Server	00158	1078	CNR	CNR
x	-Robot	00046	599396-01	CNR	CNR
x	-DAE4	00019	353	27Apr10	Annual
x	-ET3DV6 E-Field Probe	00017	1590	16Jul09	Annual
x	-EX3DV4 E-Field Probe	00213	3600	29Apr10	Annual
x	-D835V2 Validation Dipole	00217	4d075	20Apr09	Biennial
x	-D1900V2 Validation Dipole	00218	5d107	21Apr09	Biennial
x	-D2450V2 Validation Dipole	00219	825	17Apr09	Biennial
x	-SAM Twin Phantom V4.0C	00154	1033	CNR	CNR
x	HP 85070C Dielectric Probe Kit	00033	none	CNR	CNR
x	Gigatronics 8652A Power Meter	00007	1835272	04May10	Biennial
x	Gigatronics 80701A Power Sensor	00014	1833699	04May10	Biennial
x	HP 8753ET Network Analyzer	00134	US39170292	04May10	Biennial
x	Agilent 8960 Series 10 Communication Test Set	N/A	GB46311315	24Sep09	Biennial
x	Rohde & Schwarz SMR20 Signal Generator	00006	100104	CNR	CNR
x	Amplifier Research 5S1G4 Power Amplifier	00106	26235	CNR	CNR
Abbr.	CNR = Calibration Not Required; N/A = Not Applicable				

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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## 18.0 MEASUREMENT UNCERTAINTIES

### UNCERTAINTY BUDGET FOR DEVICE EVALUATION

Uncertainty Component	IEEE 1528 Section	Uncertainty Value ±%	Probability Distribution	Divisor	ci 1g	ci 10g	Uncertainty Value ±% (1g)	Uncertainty Value ±% (10g)	$V_i$ or $V_{eff}$
<b>Measurement System</b>									
Probe Calibration	E.2.1	5.5	Normal	1	1	1	5.5	5.5	∞
Axial Isotropy	E.2.2	4.7	Rectangular	1.732050808	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	E.2.2	9.6	Rectangular	1.732050808	0.7	0.7	3.9	3.9	∞
Boundary Effect	E.2.3	1	Rectangular	1.732050808	1	1	0.6	0.6	∞
Linearity	E.2.4	4.7	Rectangular	1.732050808	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1	Rectangular	1.732050808	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	0.3	Normal	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	Rectangular	1.732050808	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	Rectangular	1.732050808	1	1	1.5	1.5	∞
RF Ambient Conditions	E.6.1	3	Rectangular	1.732050808	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.4	Rectangular	1.732050808	1	1	0.2	0.2	∞
Probe Positioning wrt Phantom Shell	E.6.3	2.9	Rectangular	1.732050808	1	1	1.7	1.7	∞
Extrapolation, interpolation & integration algorithms for max. SAR evaluation	E.5	1	Rectangular	1.732050808	1	1	0.6	0.6	∞
<b>Test Sample Related</b>									
Test Sample Positioning	E.4.2	2.9	Normal	1	1	1	2.9	2.9	12
Device Holder Uncertainty	E.4.1	3.6	Normal	1	1	1	3.6	3.6	8
SAR Drift Measurement	6.6.2	5	Rectangular	1.732050808	1	1	2.9	2.9	∞
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty	E.3.1	4	Rectangular	1.732050808	1	1	2.3	2.3	∞
Liquid Conductivity (target)	E.3.2	5	Rectangular	1.732050808	0.64	0.43	1.8	1.2	∞
Liquid Conductivity (measured)	E.3.3	2.5	Normal	1	0.64	0.43	1.6	1.1	∞
Liquid Permittivity (target)	E.3.2	5	Rectangular	1.732050808	0.6	0.49	1.7	1.4	∞
Liquid Permittivity (measured)	E.3.3	3	Normal	1	0.6	0.49	1.8	1.5	∞
<b>Combined Standard Uncertainty</b>				<b>RSS</b>			<b>10.63</b>	<b>10.37</b>	
<b>Expanded Uncertainty (95% Confidence Interval)</b>				<b>k=2</b>			<b>21.25</b>	<b>20.74</b>	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003

 Testing and Engineering Services Ltd.	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 19.0 REFERENCES

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- [3] Federal Communications Commission - "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields", OET Bulletin 65, Supplement C (Edition 01-01), FCC, Washington, D.C.: June 2001.
- [4] Industry Canada - "Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)", Radio Standards Specification RSS-102 Issue 4: March 2010.
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- [6] International Standard IEC 62209-2 Draft (106-62209-2-CDV\_090323) - "Human exposure to radio frequency fields from hand-held & body-mounted wireless comm. devices - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (30 MHz to 6 GHz)".
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- [8] Federal Communications Commission, Office of Engineering and Technology - "SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas"; KDB 648474 D01v01r05: September 2008.
- [9] Federal Communications Commission, Office of Engineering and Technology - "Application Note: SAR Probe Calibration and System Verification Considerations for Measurements at 150 MHz - 3 GHz"; KDB 450824 D01 v01r01: January 2007.
- [10] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 16 Application Note, Head Tissue Recipe: Sept. 2005.
- [11] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 17 Application Note, Body Tissue Recipe: Sept. 2005.
- [12] ISO/IEC 17025 - "General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)."

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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June 08, 2010

Description of Test(s)  
Specific Absorption Rate

RF Exposure Category  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

## APPENDIX A - SAR MEASUREMENT DATA

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 824.2 MHz - Channel 128 - Front Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: FC3422HOLSTER

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.8 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.038 mW/g

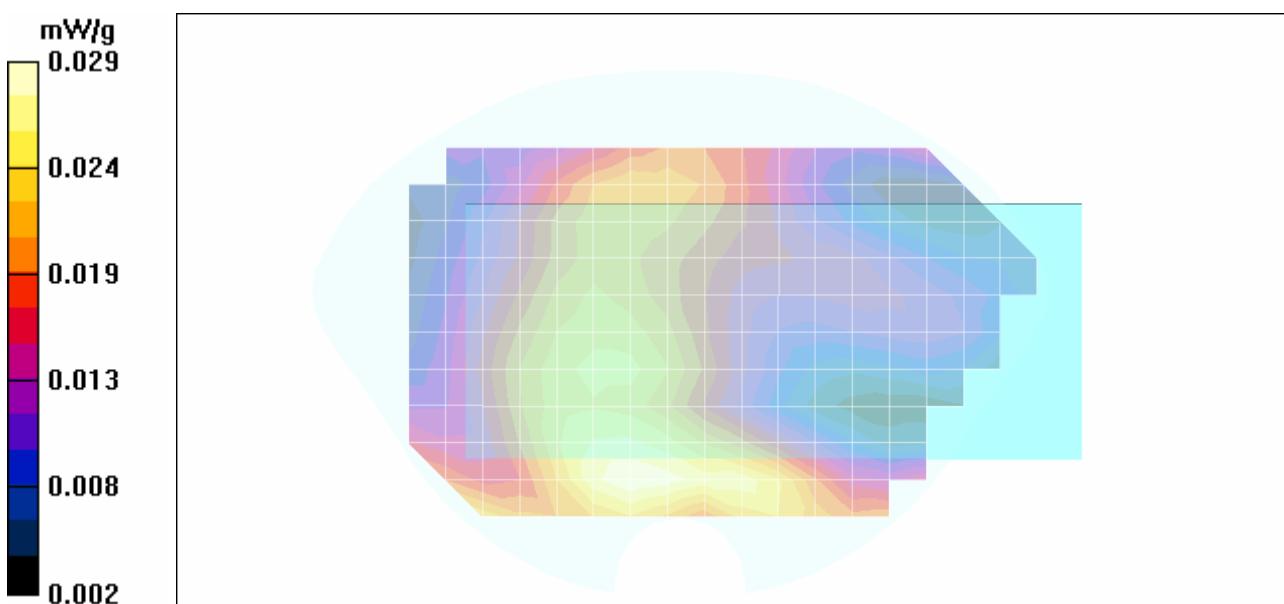
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.23 V/m; Power Drift = 0.175 dB

Peak SAR (extrapolated) = 0.037 W/kg

**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.019 mW/g**

Maximum value of SAR (measured) = 0.029 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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 Testing and Engineering Services Ltd.	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 IACMRA ACCREDITED
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 824.2 MHz - Channel 128 - Front Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: MX9420HOLSTER

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.0 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.038 mW/g

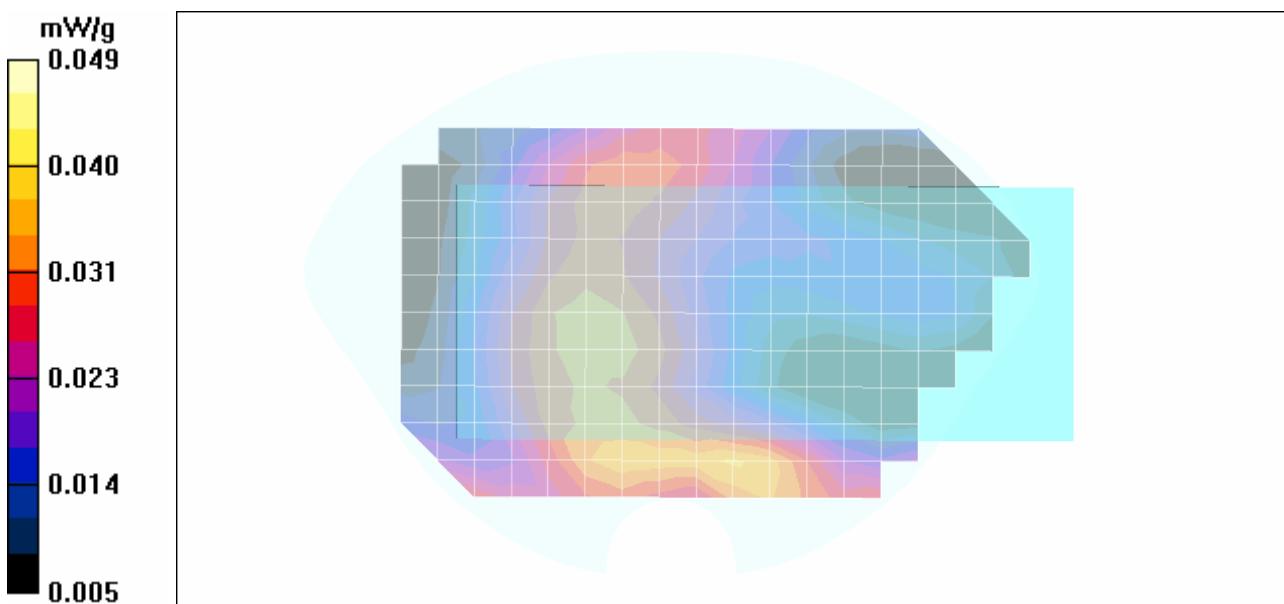
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.00 V/m; Power Drift = 0.206 dB

Peak SAR (extrapolated) = 0.062 W/kg

**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.030 mW/g**

Maximum value of SAR (measured) = 0.049 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 824.2 MHz - Channel 128 - Left Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: None (2.0 cm Air-Gap Spacing)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.581 mW/g

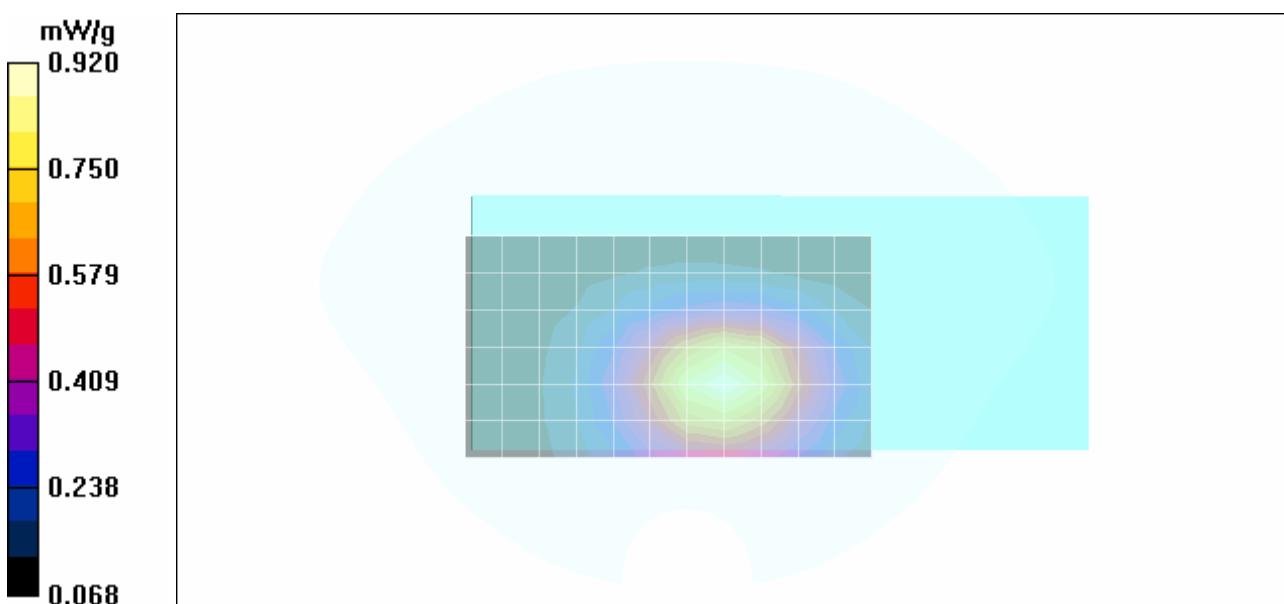
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.1 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.859 mW/g; SAR(10 g) = 0.590 mW/g**

Maximum value of SAR (measured) = 0.920 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 836.6 MHz - Channel 190 - Left Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: None (2.0 cm Air-Gap Spacing)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 836.6 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.978 mW/g

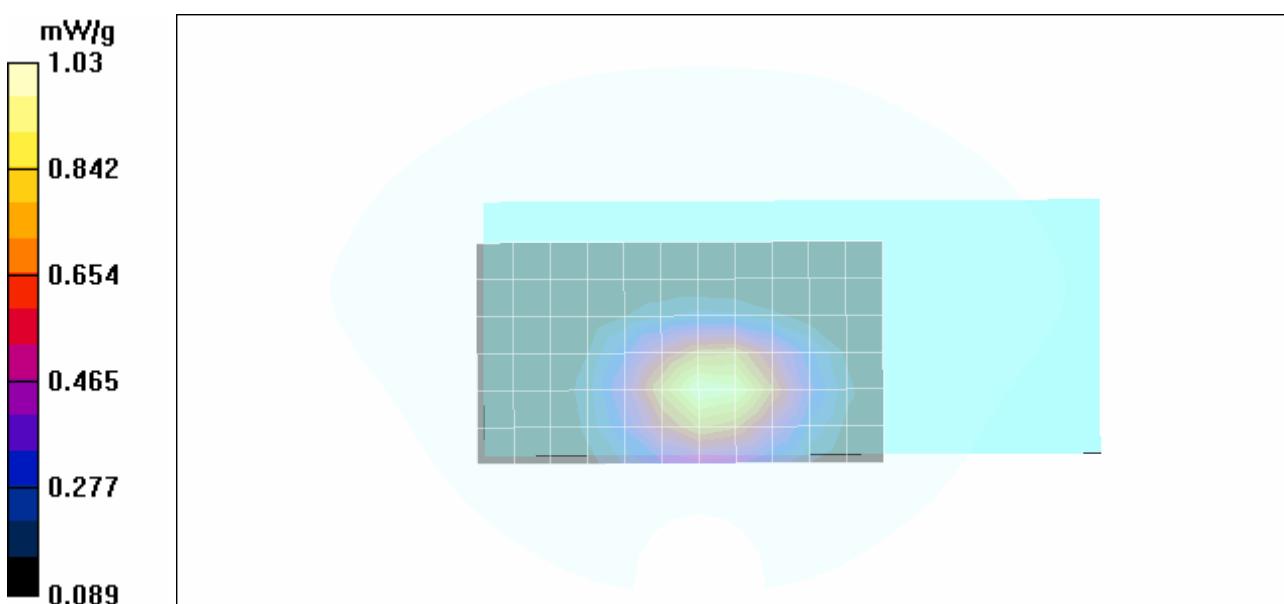
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.3 V/m; Power Drift = 0.027 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.650 mW/g**

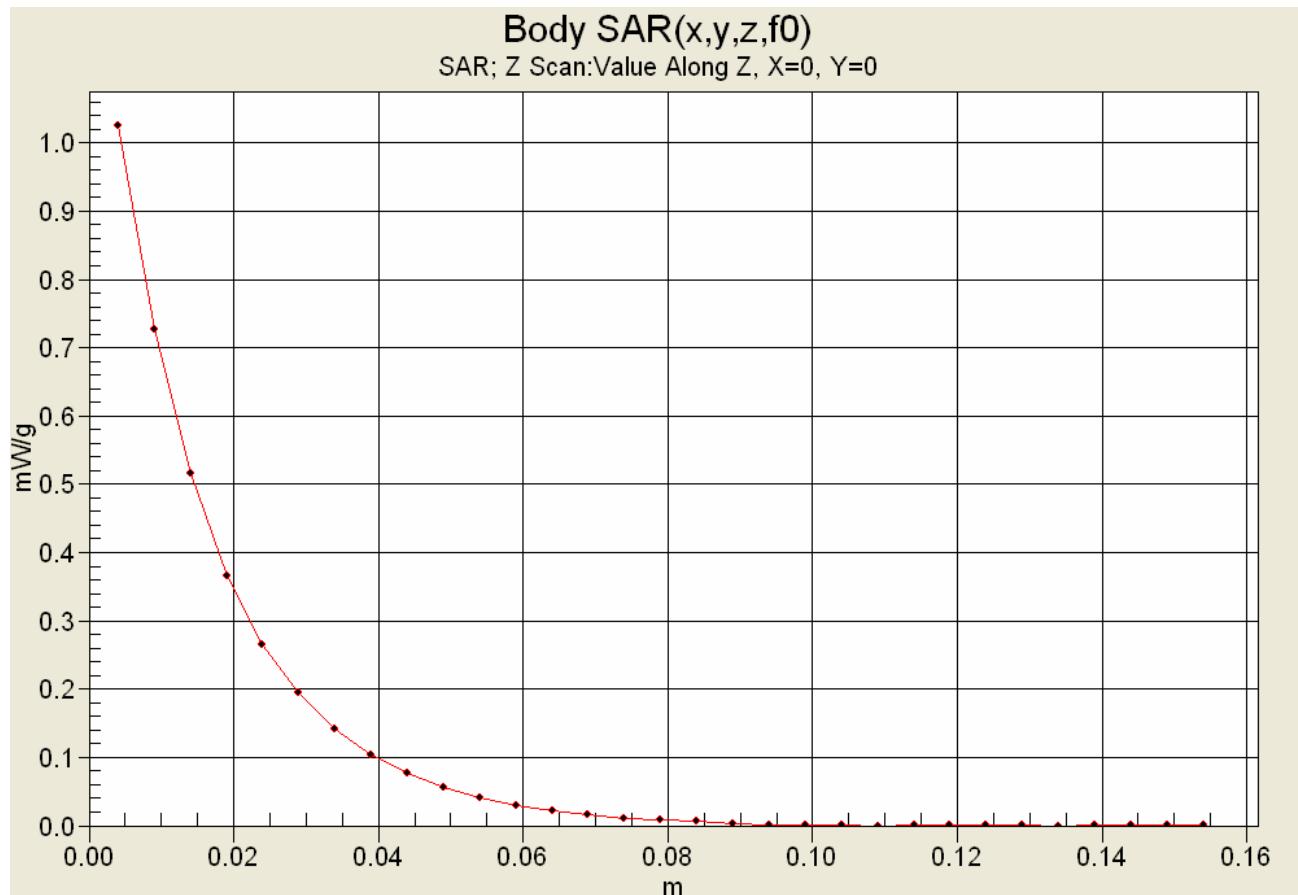
Maximum value of SAR (measured) = 1.03 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## Z-Axis Scan



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 848.8 MHz - Channel 251 - Left Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: None (2.0 cm Air-Gap Spacing)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 845$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (7x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.957 mW/g

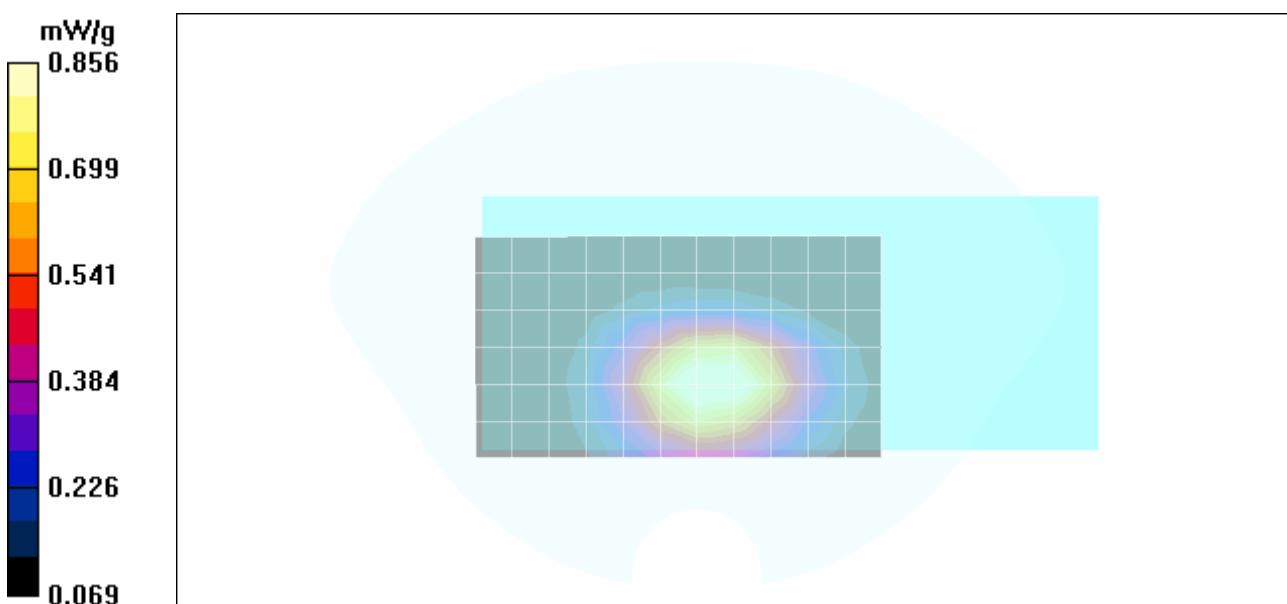
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 33.1 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.803 mW/g; SAR(10 g) = 0.550 mW/g**

Maximum value of SAR (measured) = 0.856 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 824.2 MHz - Channel 128 - Right Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: None (Touch Position)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 825$  MHz;  $\sigma = 0.96$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - Right side of DUT touching SAM phantom (planar section)

Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.441 mW/g

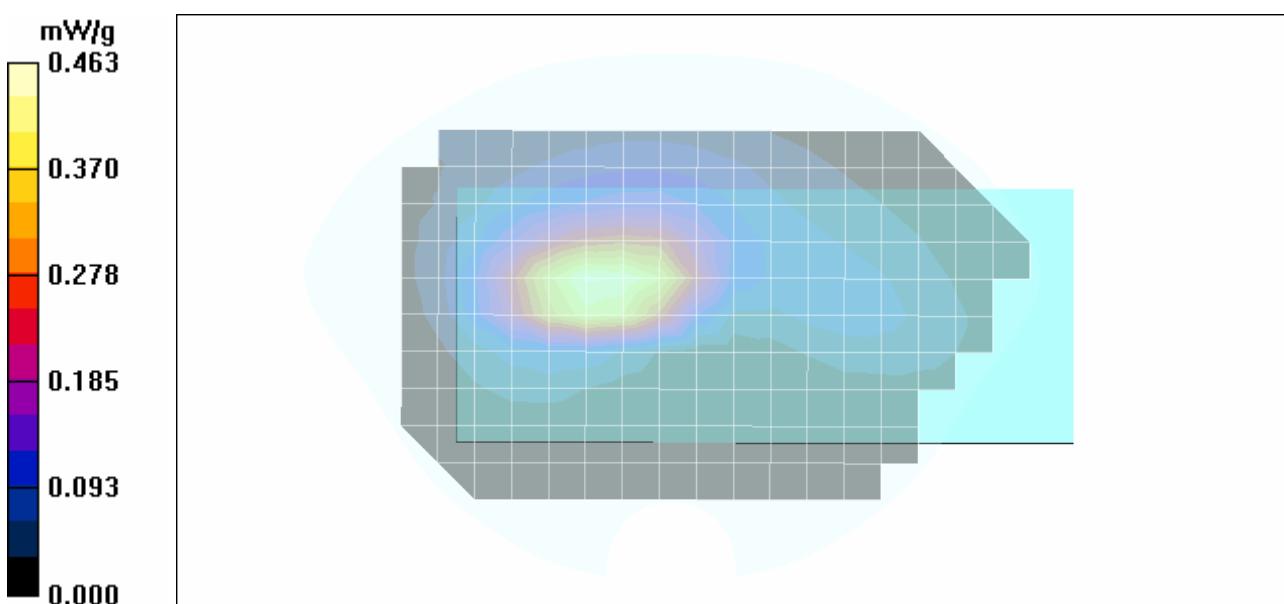
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.5 V/m; Power Drift = 0.235 dB

Peak SAR (extrapolated) = 0.780 W/kg

**SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.270 mW/g**

Maximum value of SAR (measured) = 0.463 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/10/2010

## Body SAR - PCS 1900 Band - GPRS (4 Uplink) - 1850.2 MHz - Channel 512 - Front Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: FC3422HOLSTER

Ambient Temp: 24.3°C; Fluid Temp: 23.4°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 Uplink)

Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: M1900 Medium parameters used:  $f = 1850$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.8 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.047 mW/g

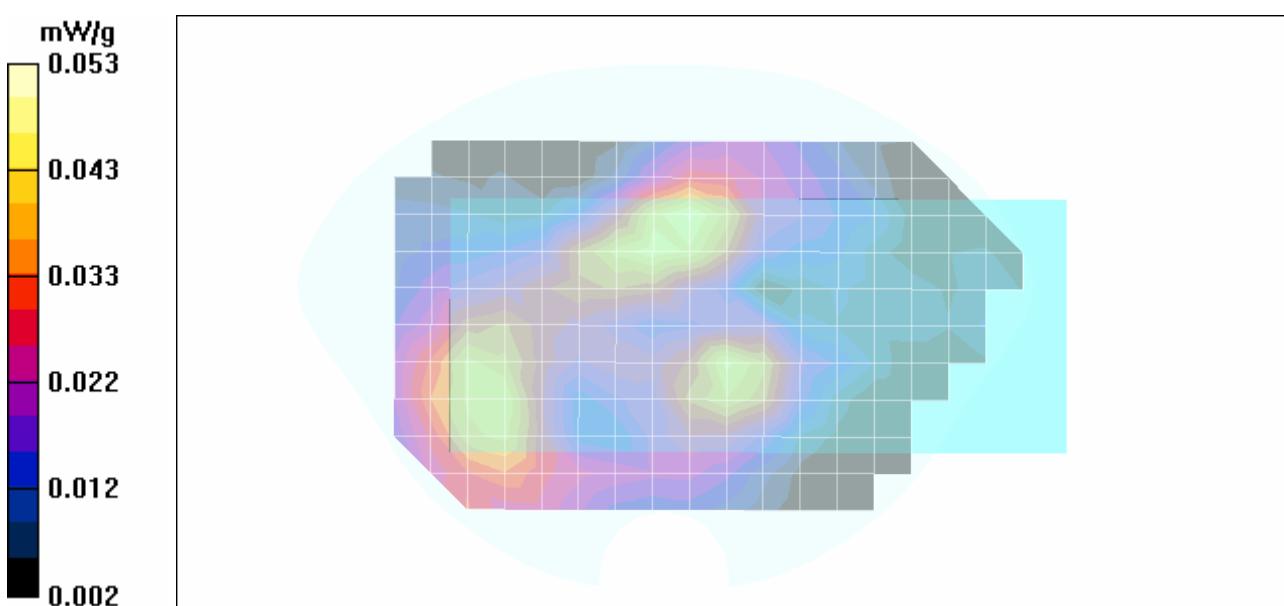
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.60 V/m; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 0.071 W/kg

**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.029 mW/g**

Maximum value of SAR (measured) = 0.053 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

Date Tested: 05/10/2010

## Body SAR - PCS 1900 Band - GPRS (4 Uplink) - 1850.2 MHz - Channel 512 - Front Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: MX9420HOLSTER

Ambient Temp: 24.3°C; Fluid Temp: 23.4°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 Uplink)

Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: M1900 Medium parameters used:  $f = 1850$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.0 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm

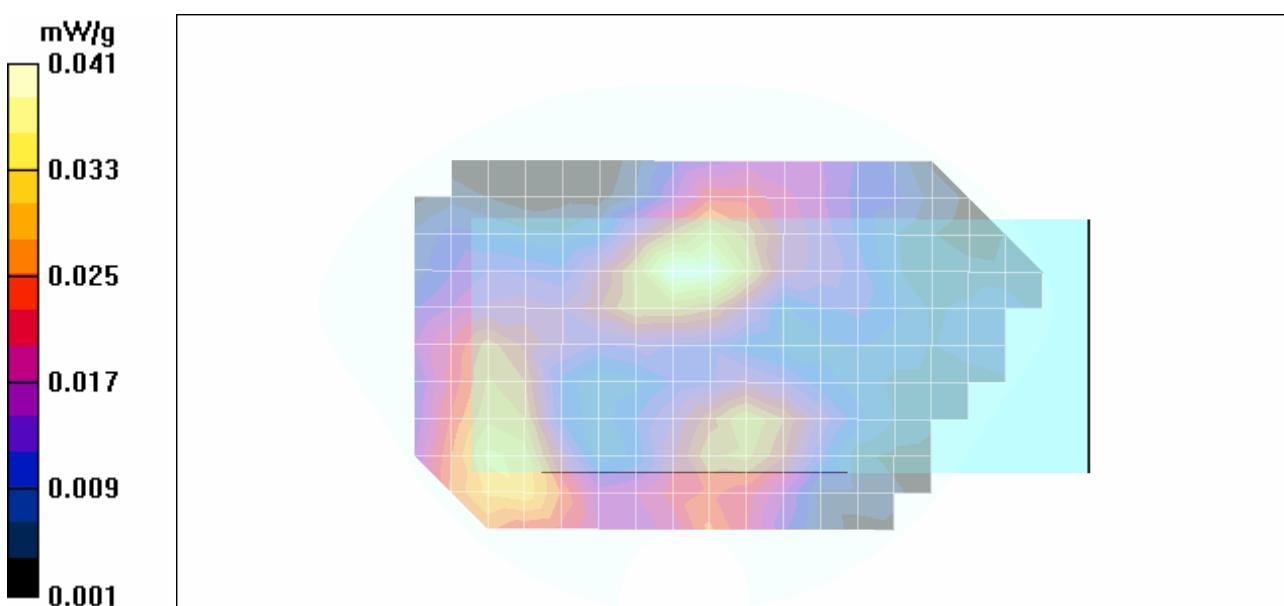
Maximum value of SAR (measured) = 0.041 mW/g

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

Reference Value = 5.04 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.055 W/kg

**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.022 mW/g**



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/10/2010

## Body SAR - PCS 1900 Band - GPRS (4 Uplink) - 1850.2 MHz - Channel 512 - Left Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: None (2.0 Air-Gap Spacing)

Ambient Temp: 24.3°C; Fluid Temp: 23.4°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 Uplink)

Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: M1900 Medium parameters used:  $f = 1850$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15$  mm,  $dy=15$  mm

Maximum value of SAR (measured) = 0.631 mW/g

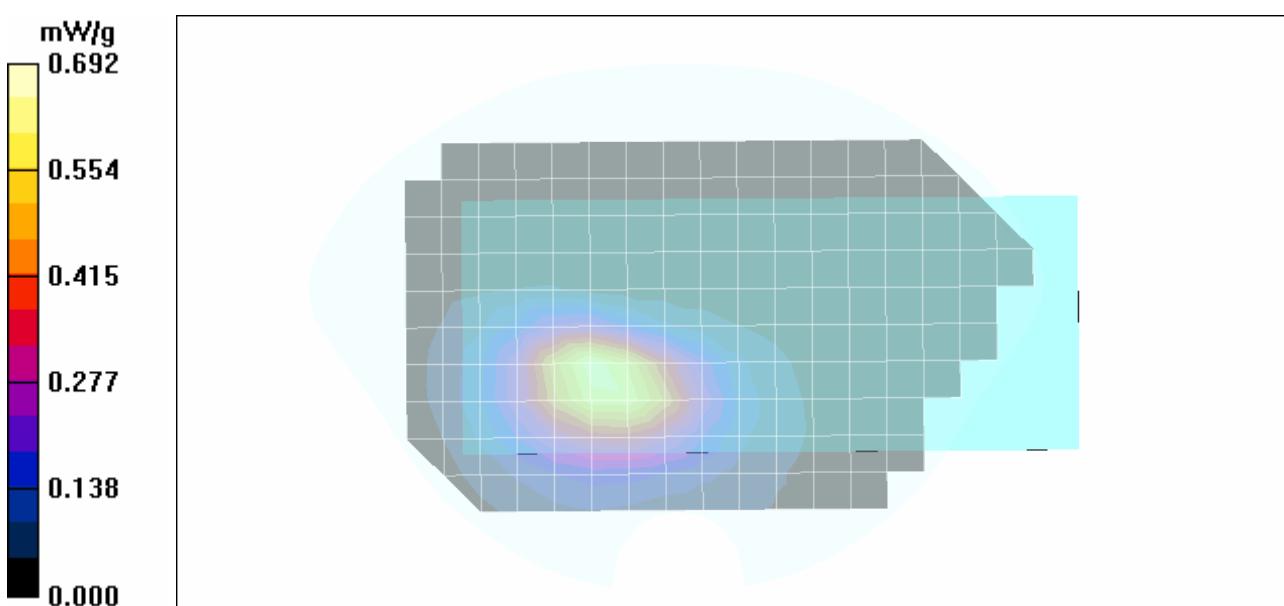
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 20.8 V/m; Power Drift = -0.196 dB

Peak SAR (extrapolated) = 0.956 W/kg

**SAR(1 g) = 0.591 mW/g; SAR(10 g) = 0.376 mW/g**

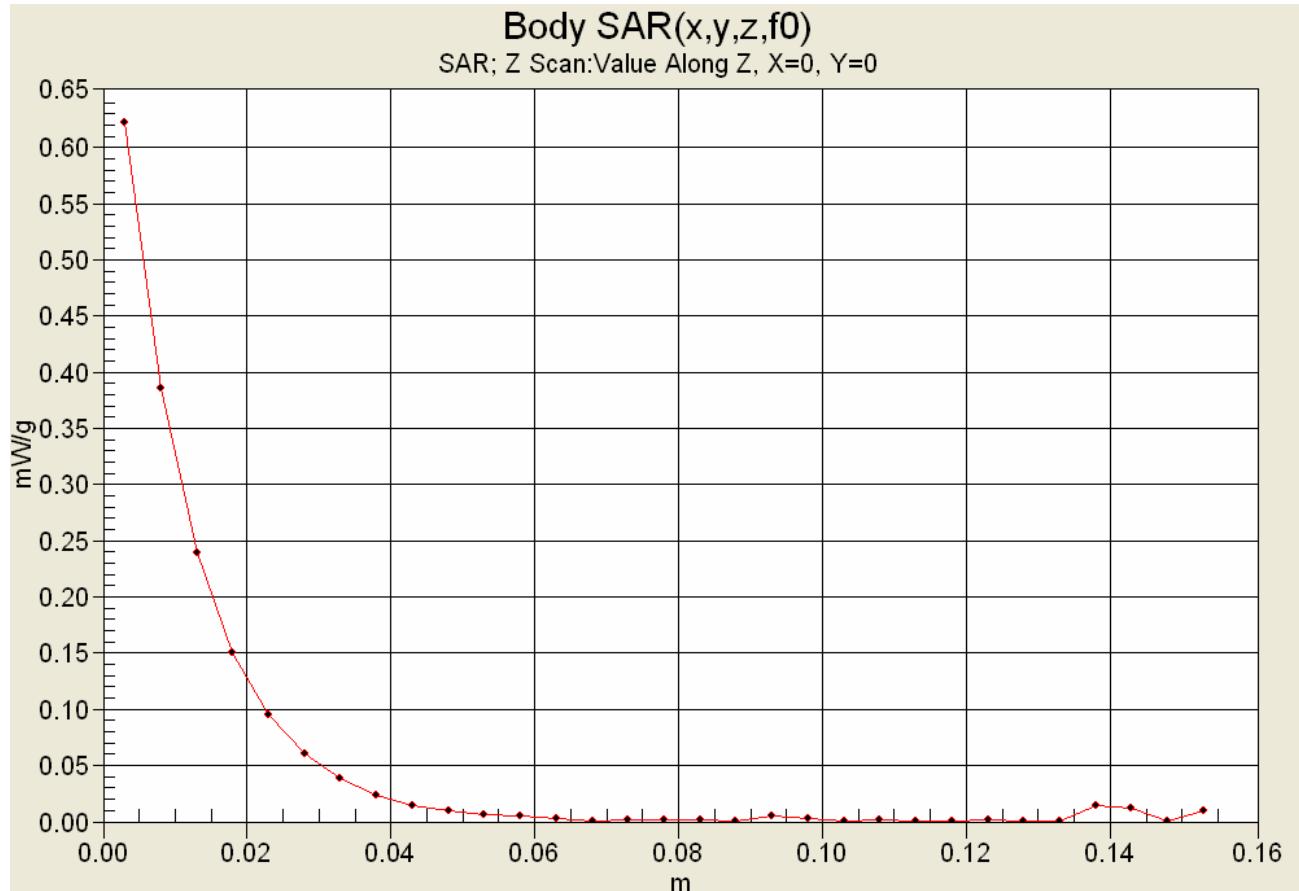
Maximum value of SAR (measured) = 0.692 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## Z-Axis Scan



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/10/2010

## Body SAR - PCS 1900 Band - GPRS (4 Uplink) - 1850.2 MHz - Channel 512 - Right Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: None (Touch Position)

Ambient Temp: 24.3°C; Fluid Temp: 23.4°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 Uplink)

Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: M1900 Medium parameters used:  $f = 1850$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - Right side of DUT touching SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.127 mW/g

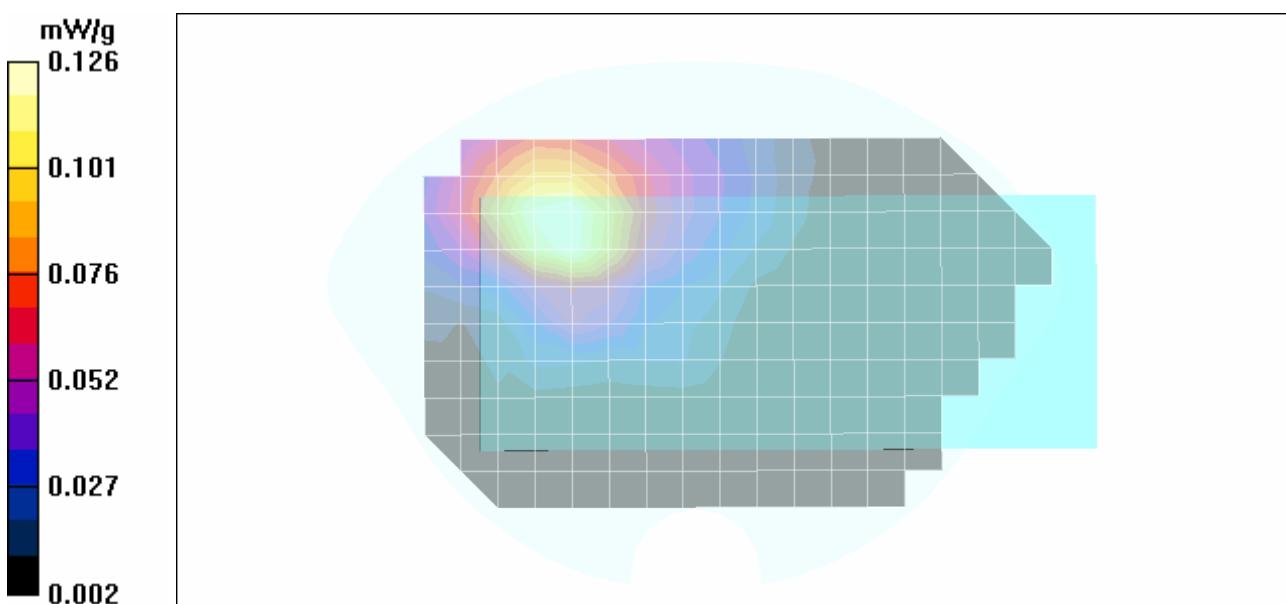
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.92 V/m; Power Drift = -0.014 dB

Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.071 mW/g**

Maximum value of SAR (measured) = 0.126 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - AUX Ant. - Front Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: FC3422HOLSTER

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.8 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.031 mW/g

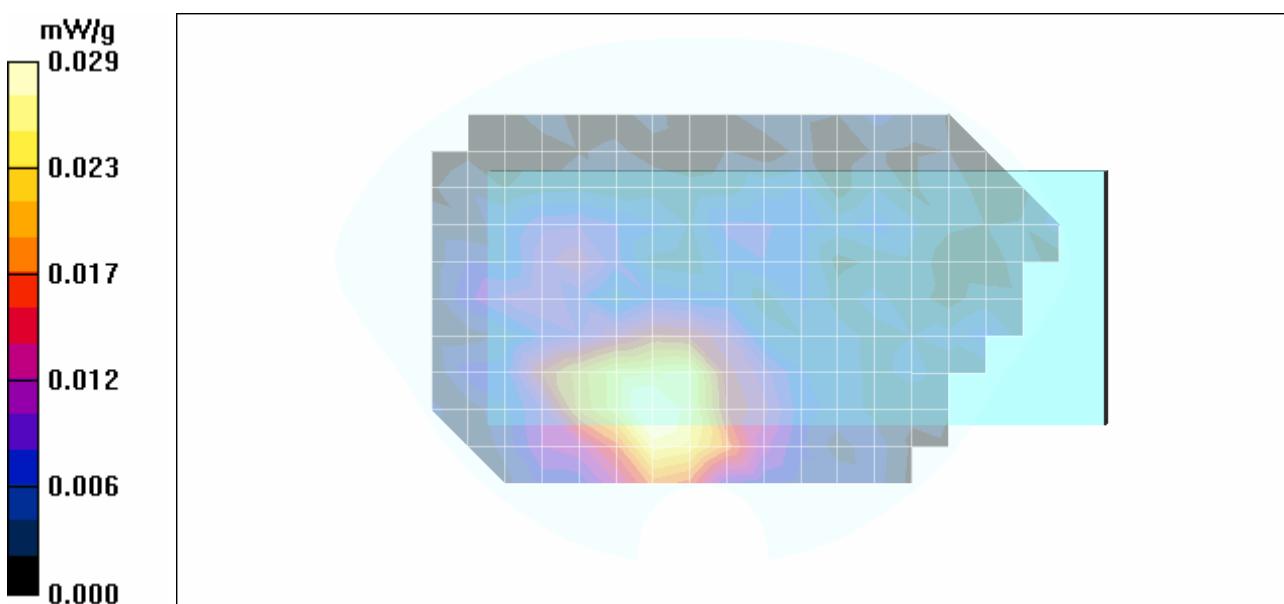
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.83 V/m; Power Drift = -0.050 dB

Peak SAR (extrapolated) = 0.042 W/kg

**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.029 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - AUX Ant. - Front Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: MX9420HOLSTER

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.0 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.064 mW/g

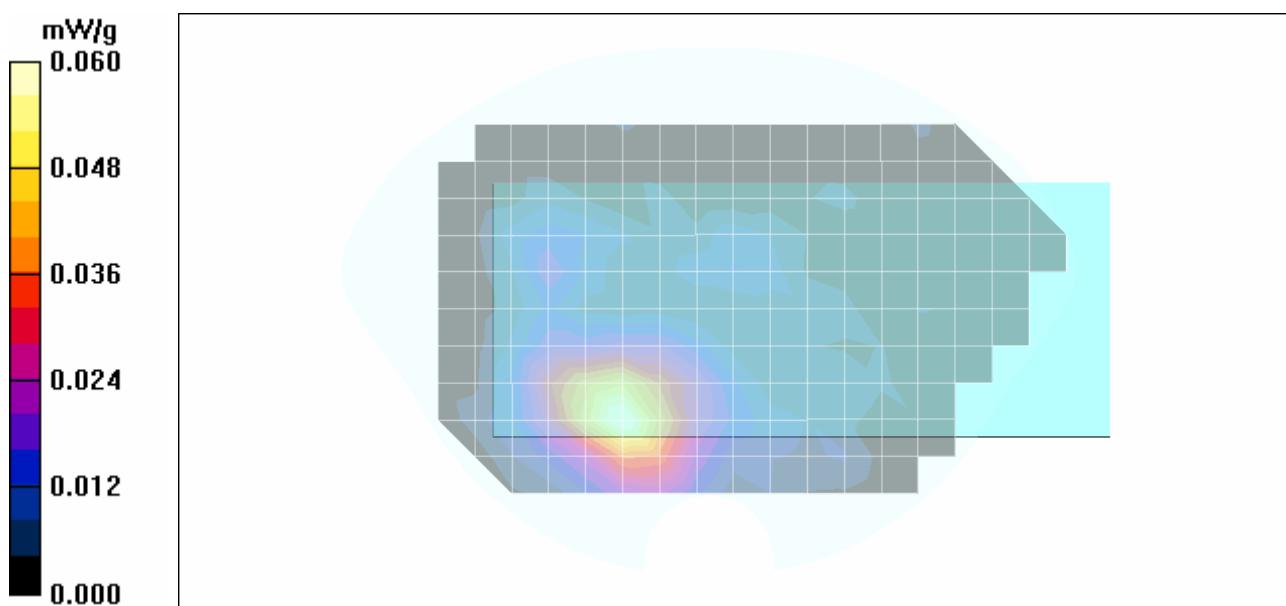
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.53 V/m; Power Drift = 0.171 dB

Peak SAR (extrapolated) = 0.093 W/kg

**SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.060 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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Test Lab Certificate No. 2470.01

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - AUX Ant. - Left Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: None (2.0 cm Air-Gap Spacing)

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.034 mW/g

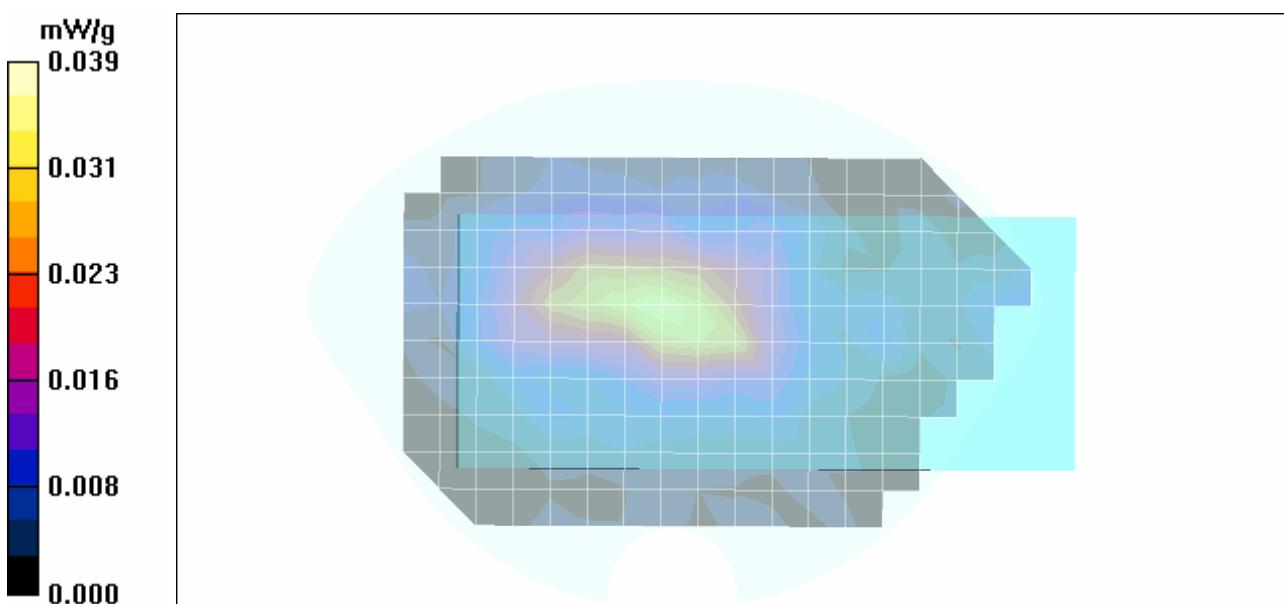
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.29 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.057 W/kg

**SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.039 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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Test Lab Certificate No. 2470.01

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - MAIN Ant. - Front Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: FC3422HOLSTER

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.8 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.026 mW/g

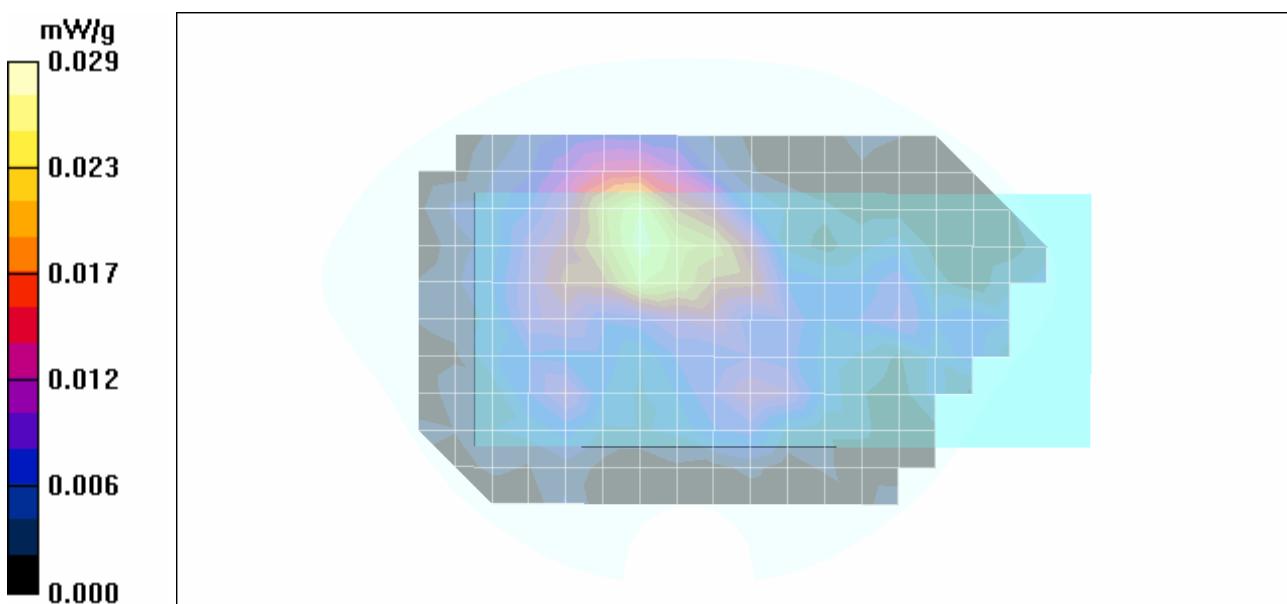
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.49 V/m; Power Drift = 0.171 dB

Peak SAR (extrapolated) = 0.044 W/kg

**SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.013 mW/g**

Maximum value of SAR (measured) = 0.029 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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Test Lab Certificate No. 2470.01

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - MAIN Ant. - Front Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: MX9420HOLSTER

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.0 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.046 mW/g

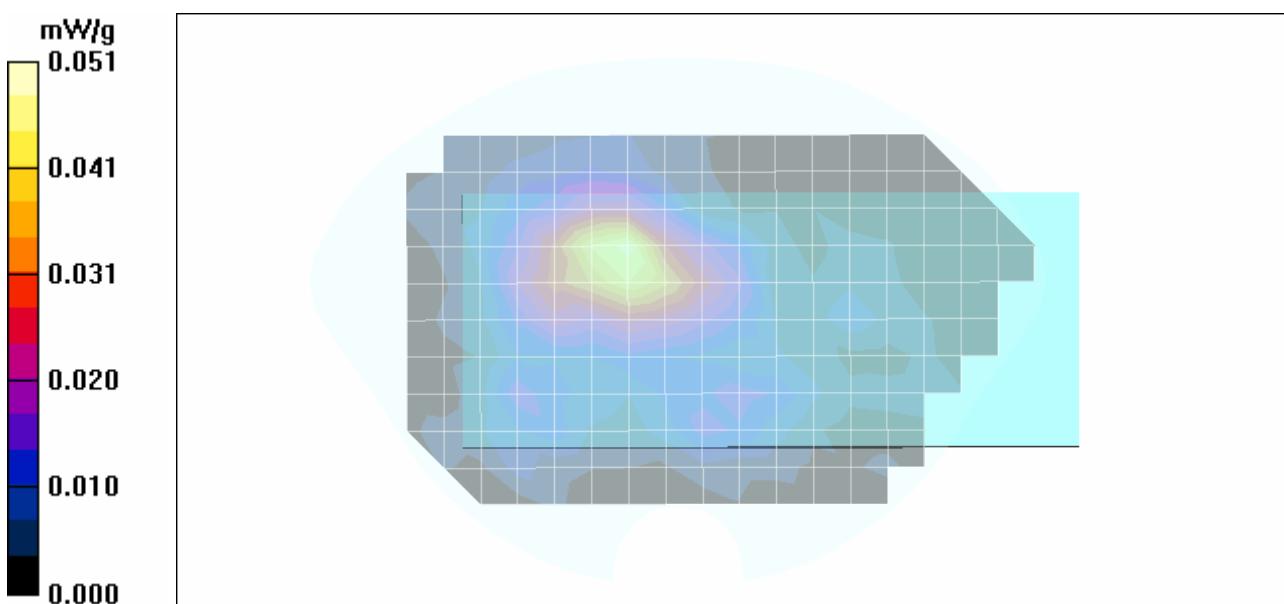
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.78 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 0.075 W/kg

**SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.024 mW/g**

Maximum value of SAR (measured) = 0.051 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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 Testing and Engineering Services Ltd.	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - MAIN Ant. - Right Side of DUT

DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

Body-worn Accessory: None (Touch Position)

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440$  MHz;  $\sigma = 2$  mho/m;  $\epsilon_r = 51.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - Right side of DUT touching SAM phantom (planar section)

Area Scan (11x18x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.334 mW/g

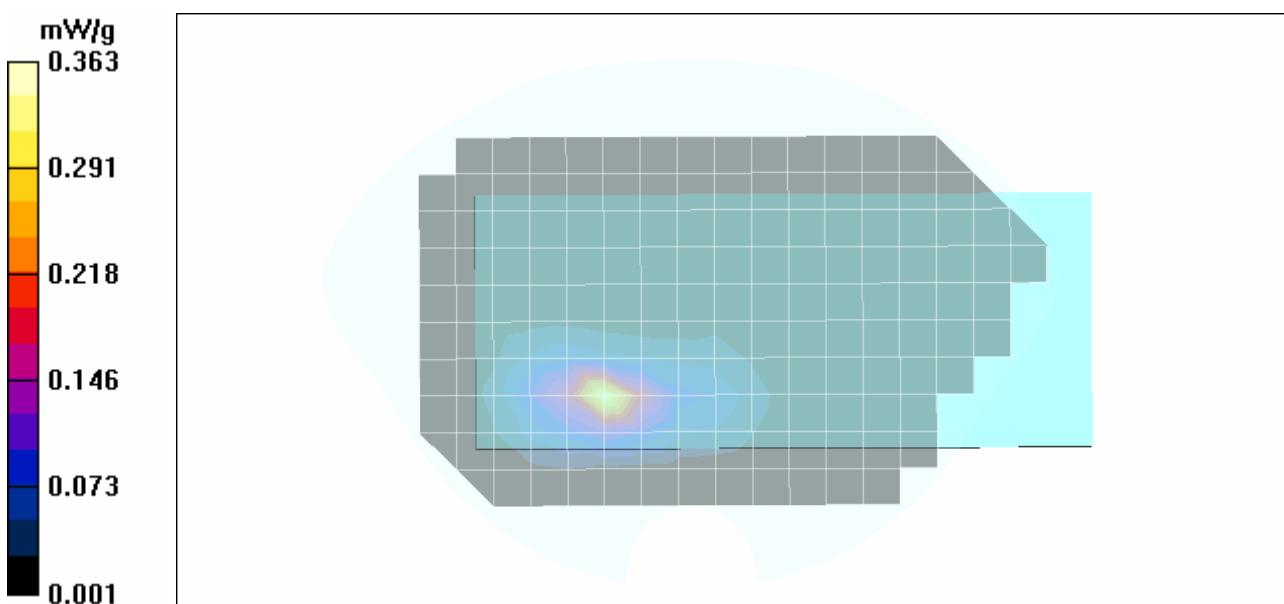
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = 0.159 dB

Peak SAR (extrapolated) = 0.672 W/kg

**SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.117 mW/g**

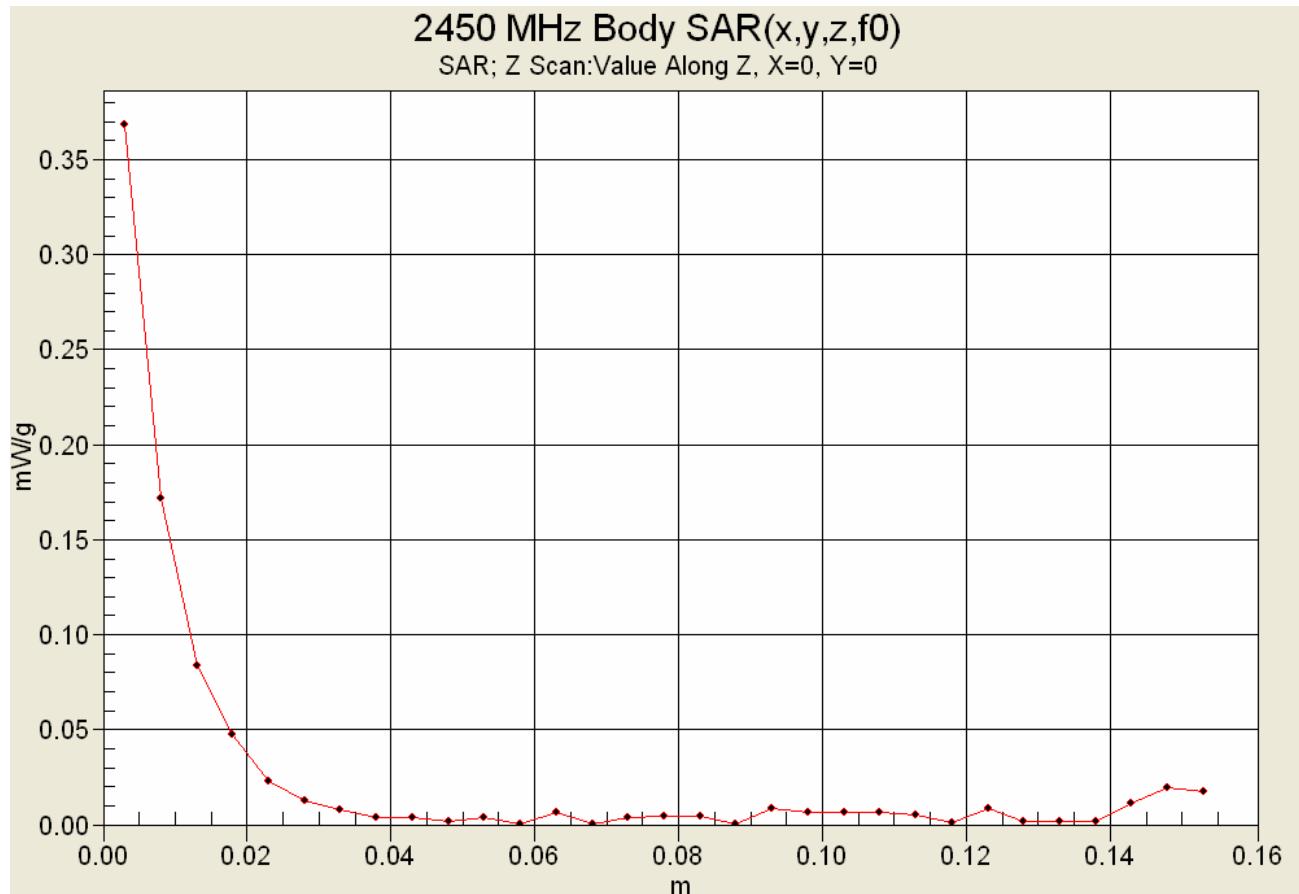
Maximum value of SAR (measured) = 0.363 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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 Testing and Engineering Services Ltd	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## Z-Axis Scan



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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Dates of Evaluation  
May 07, 10, 12, 2010

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041310KDZ-T1014-S24G

Test Report Revision No.  
Rev. 1.1 (2nd Release)

Test Report Issue Date  
June 08, 2010

Description of Test(s)  
Specific Absorption Rate

RF Exposure Category  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

## APPENDIX B - SYSTEM PERFORMANCE CHECK DATA

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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 Testing and Engineering Services Ltd	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 IAC-MRA ACCREDITED
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## System Performance Check - 835 MHz Dipole - Body

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 20/04/2009**

Ambient Temp: 23.5°C; Fluid Temp: 22.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.97$  mho/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### 835 MHz System Performance Check

**Area Scan (6x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.40 mW/g

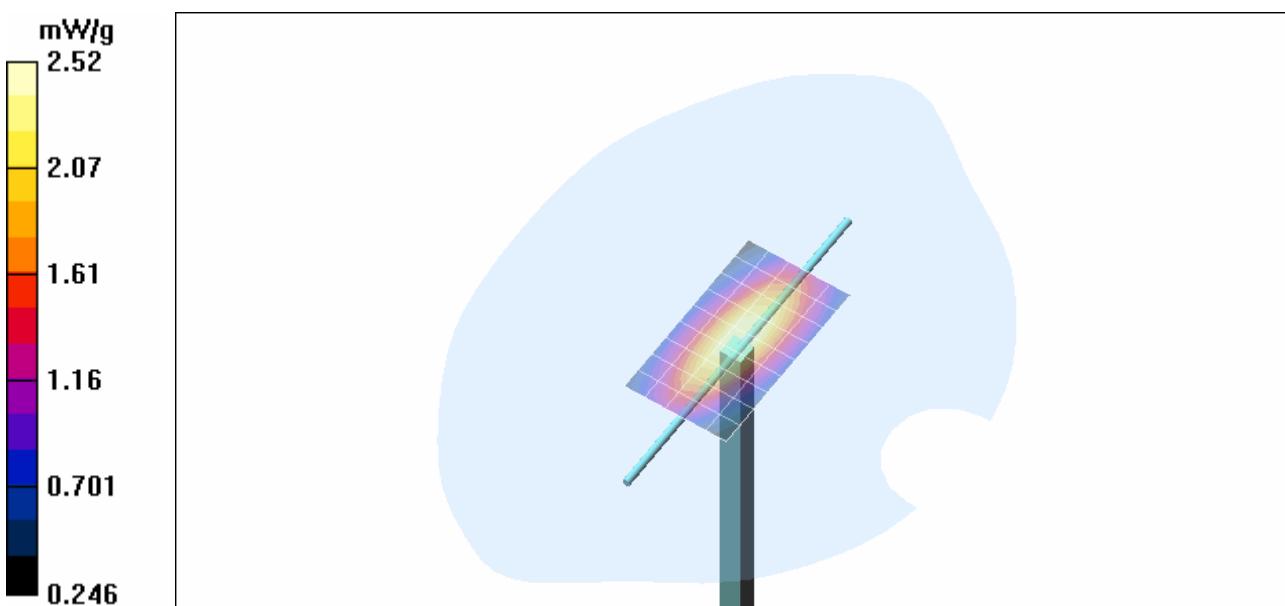
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.5 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 3.30 W/kg

**SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.54 mW/g**

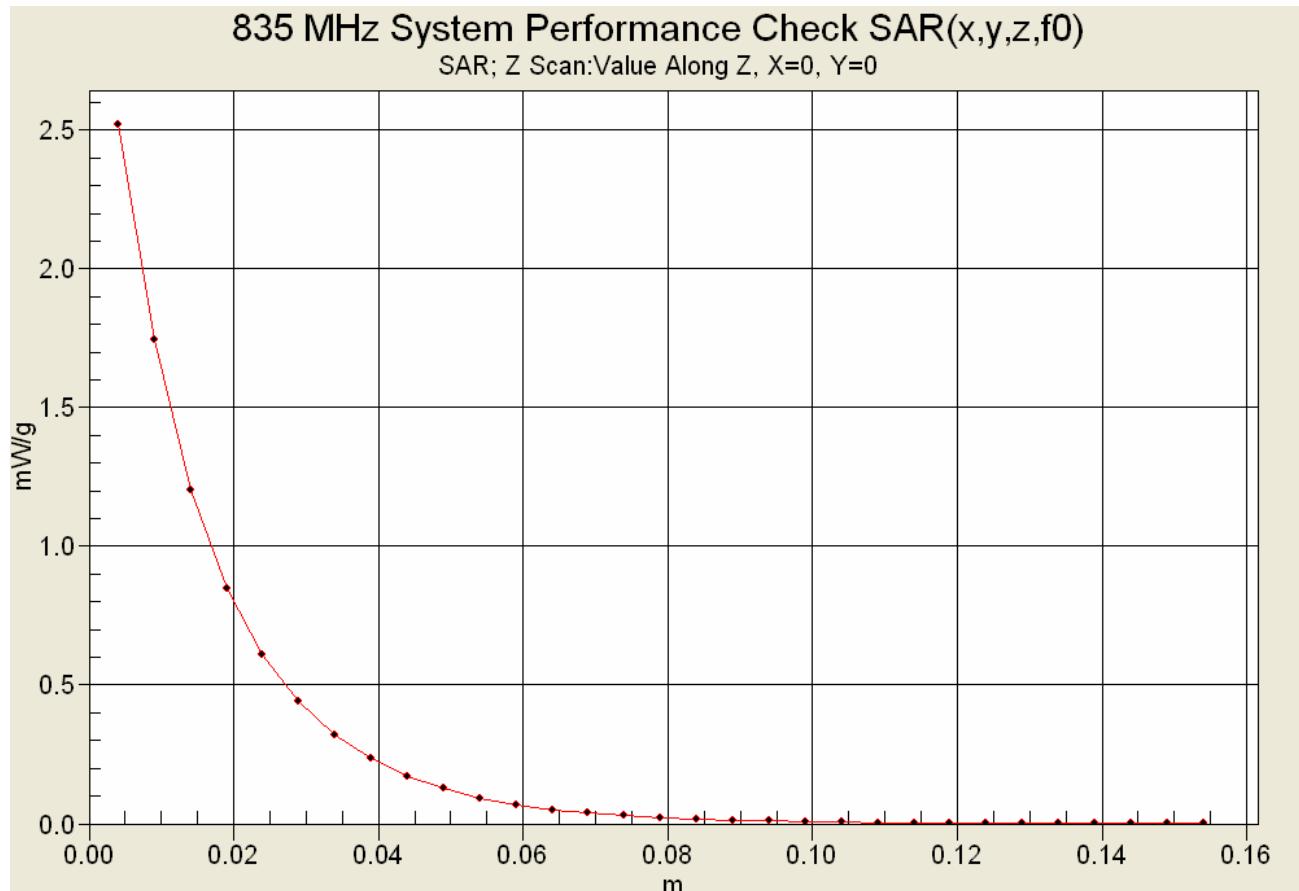
Maximum value of SAR (measured) = 2.52 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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 Testing and Engineering Services Ltd	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## Z-Axis Scan



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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 Testing and Engineering Services Ltd	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/10/2010

## System Performance Check - 1900 MHz Dipole - Body

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d107; Calibrated: 21/04/2009**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used: f = 1900 MHz;  $\sigma$  = 1.55 mho/m;  $\epsilon_r$  = 51.7;  $\rho$  = 1000 kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### 1900 MHz System Performance Check

**Area Scan (5x8x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.8 mW/g

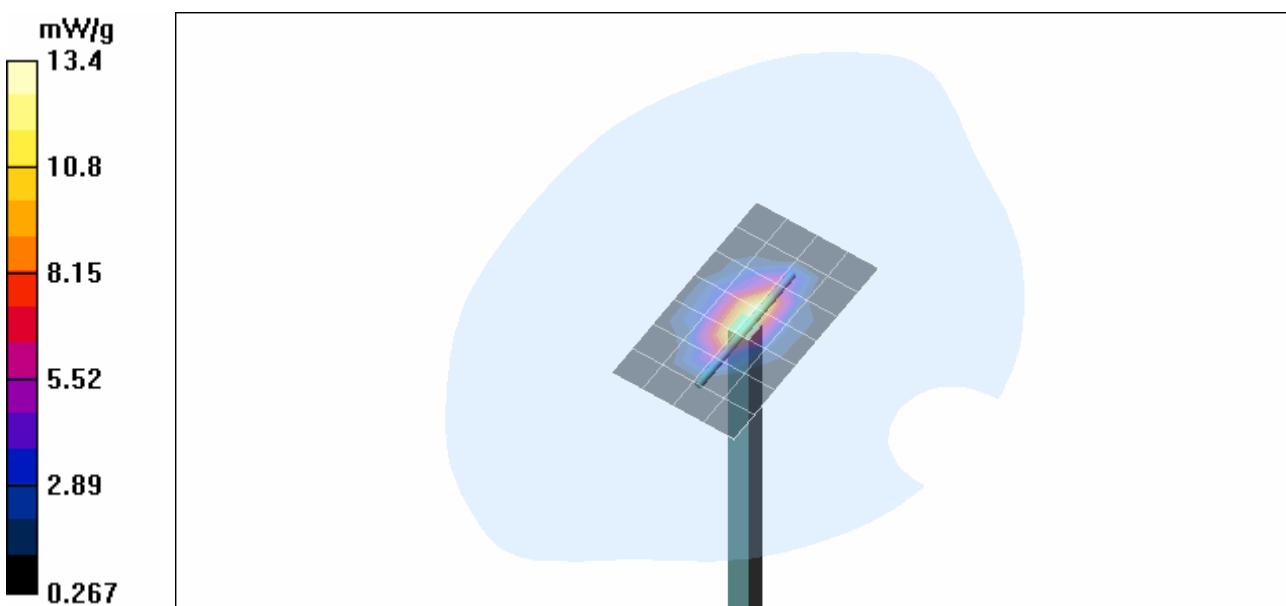
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.2 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 19.9 W/kg

**SAR(1 g) = 10.6 mW/g; SAR(10 g) = 5.48 mW/g**

Maximum value of SAR (measured) = 13.4 mW/g

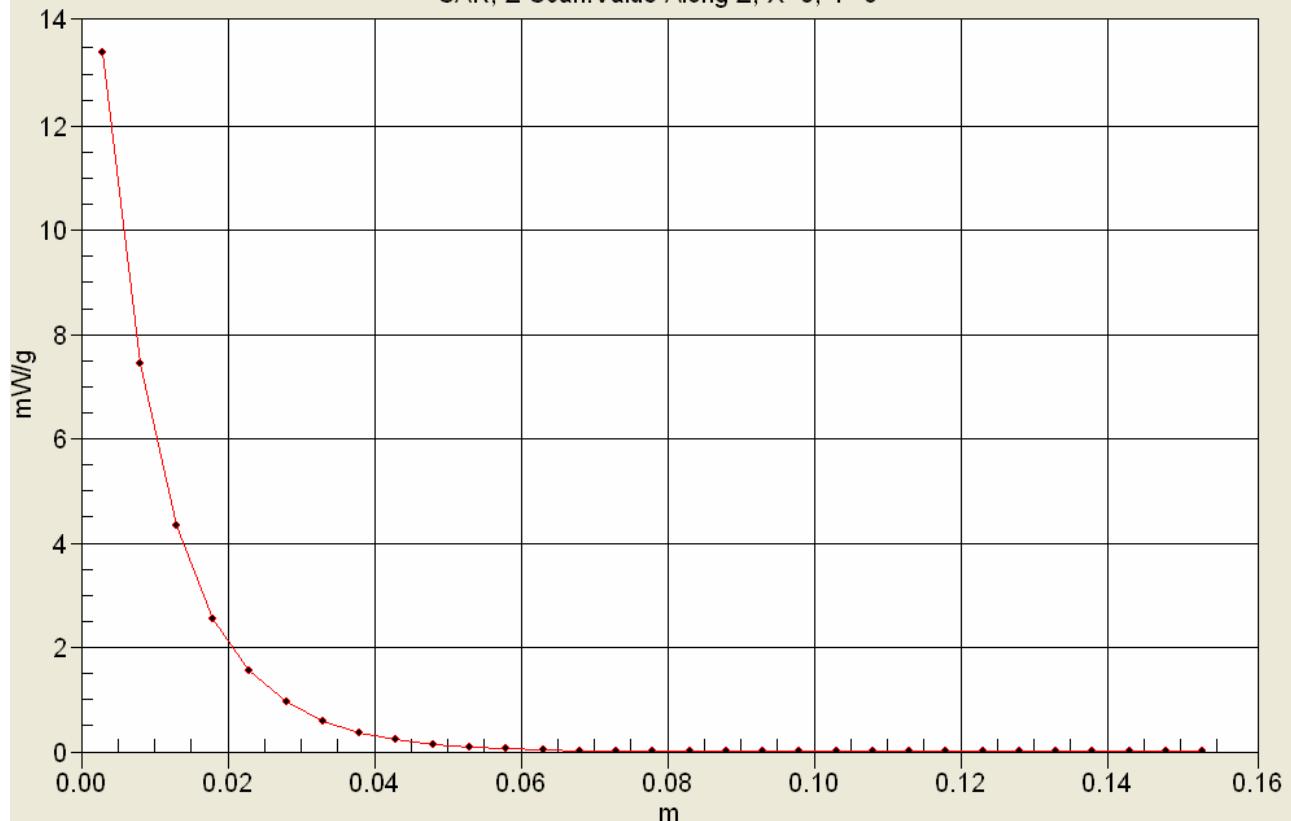


Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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## Z-Axis Scan

### 1900 MHz System Performance Check SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/07/2010

## System Performance Check - 2450 MHz Dipole - Body

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 825; Calibrated: 17/04/2009**

Ambient Temp: 25.3°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2.02$  mho/m;  $\epsilon_r = 51.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### 2450 MHz System Performance Check

**Area Scan (6x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 15.8 mW/g

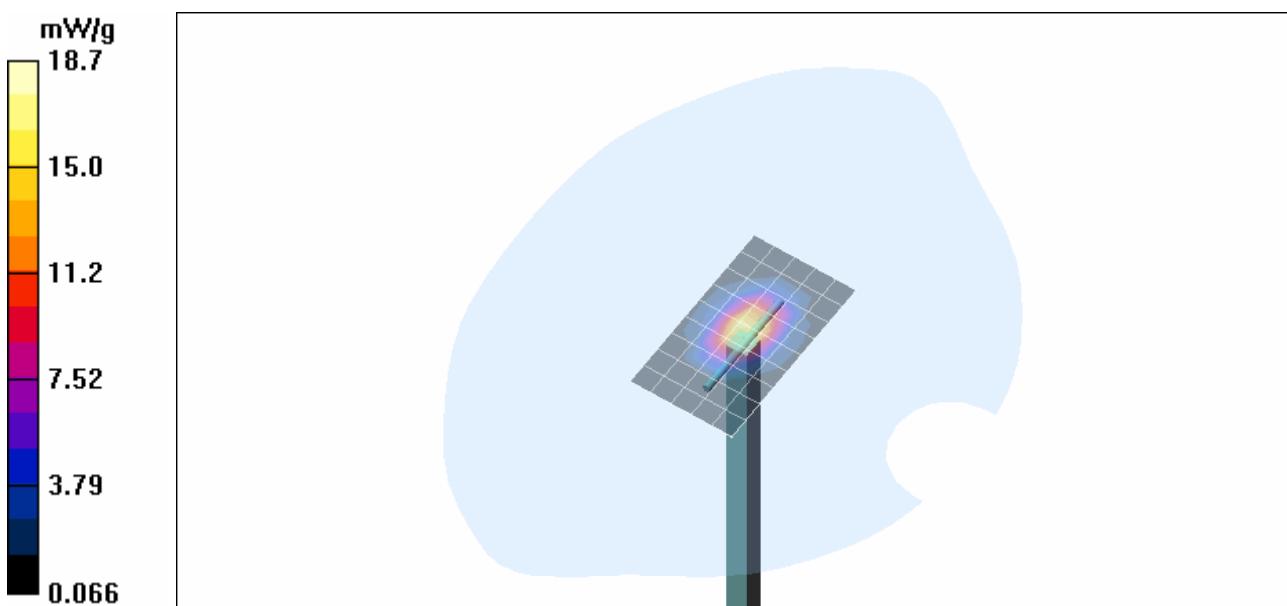
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.5 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 31.3 W/kg

**SAR(1 g) = 14 mW/g; SAR(10 g) = 6.13 mW/g**

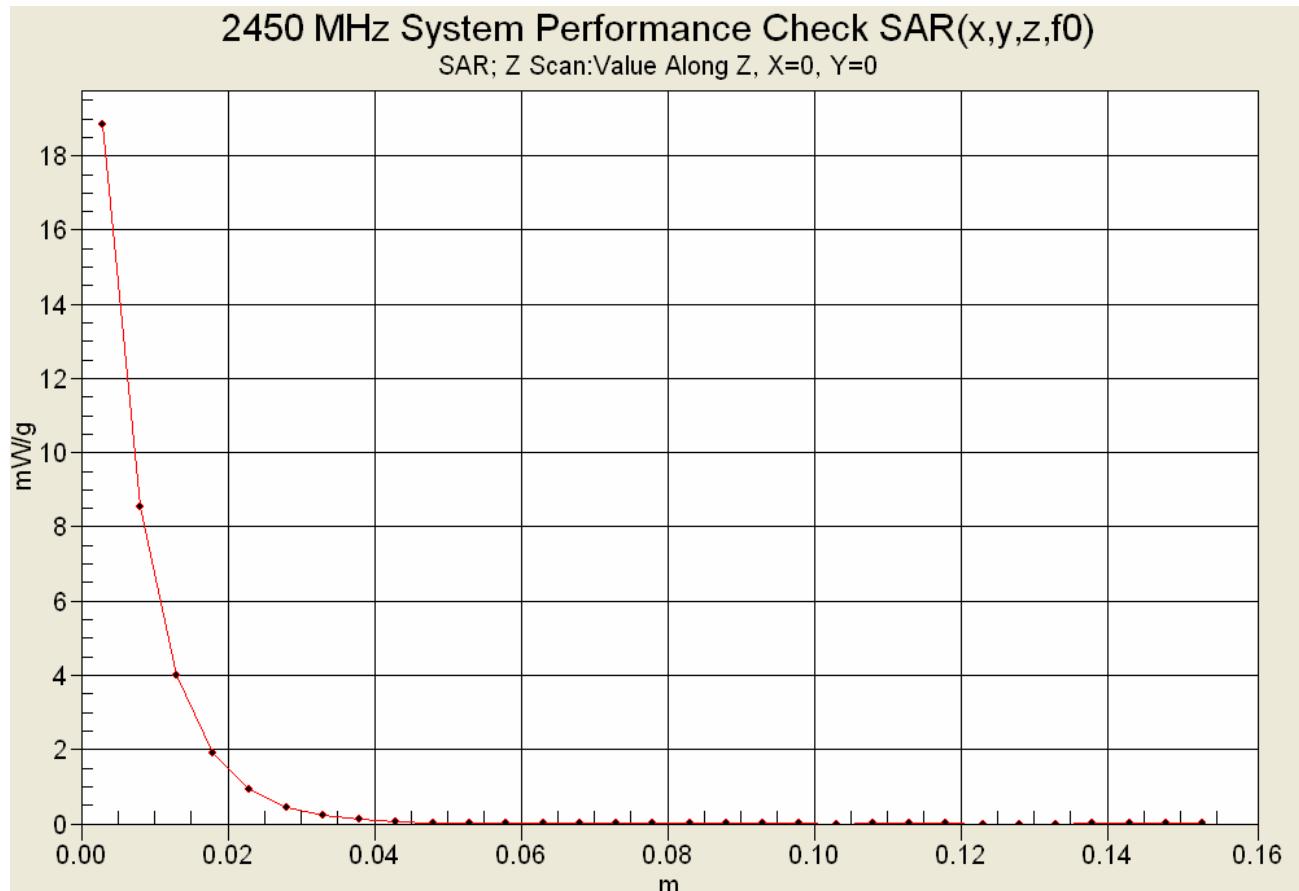
Maximum value of SAR (measured) = 18.7 mW/g



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## Z-Axis Scan



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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 <b>Celltech</b> <small>Testing and Engineering Services Ltd</small>	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 <b>IACMRA</b> <b>ACCREDITED</b>
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

## APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS

<b>Applicant:</b> <b>LXE Inc.</b>	<b>FCC ID:</b> <b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b> <b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b> <b>MX9, FC300</b>	<b>DUT:</b> <b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>	
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 Testing and Engineering Services Ltd.	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 IAC-MRA ACCREDITED
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

## 835 MHz System Performance Check & DUT Evaluation (Body)

---

Celltech Labs Inc.

Test Result for UIM Dielectric Parameter

12/May/2010

Frequency (GHz)

FCC\_eB FCC Limits for Body Epsilon

FCC\_sB FCC Limits for Body Sigma

Test\_e Epsilon of UIM

Test\_s Sigma of UIM

---

Freq	FCC_eB	FCC_sB	Test_e	Test_s
0.7350	55.59	0.96	55.00	0.88
0.7450	55.55	0.96	54.93	0.89
0.7550	55.51	0.96	54.84	0.89
0.7650	55.47	0.96	54.71	0.90
0.7750	55.43	0.97	54.62	0.91
0.7850	55.39	0.97	54.54	0.91
0.7950	55.36	0.97	54.56	0.93
0.8050	55.32	0.97	54.12	0.94
0.8150	55.28	0.97	54.32	0.95
0.8250	55.24	0.97	54.10	0.96
0.8350	55.20	0.97	54.09	0.97
0.8450	55.17	0.98	53.97	0.98
0.8550	55.14	0.99	54.06	0.99
0.8650	55.11	1.01	53.85	0.99
0.8750	55.08	1.02	54.00	1.00
0.8850	55.05	1.03	53.79	1.01
0.8950	55.02	1.04	53.80	1.01
0.9050	55.00	1.05	53.84	1.02
0.9150	55.00	1.06	53.75	1.03
0.9250	54.98	1.06	53.52	1.04
0.9350	54.96	1.07	53.59	1.05

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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 Testing and Engineering Services Ltd.	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 1900 MHz System Performance Check & DUT Evaluation (Body)

---

Celltech Labs Inc.  
 Test Result for UIM Dielectric Parameter

10/May/2010

Frequency (GHz)

FCC\_eB FCC Limits for Body Epsilon

FCC\_sB FCC Limits for Body Sigma

Test\_e Epsilon of UIM

Test\_s Sigma of UIM

---

Freq	FCC_eB	FCC_sB	Test_e	Test_s
1.8000	53.30	1.52	51.92	1.46
1.8100	53.30	1.52	51.44	1.46
1.8200	53.30	1.52	51.84	1.47
1.8300	53.30	1.52	51.76	1.48
1.8400	53.30	1.52	51.77	1.50
1.8500	53.30	1.52	51.69	1.49
1.8600	53.30	1.52	51.73	1.52
1.8700	53.30	1.52	51.68	1.54
1.8800	53.30	1.52	51.71	1.53
1.8900	53.30	1.52	51.62	1.53
1.9000	53.30	1.52	51.70	1.55
1.9100	53.30	1.52	51.65	1.57
1.9200	53.30	1.52	51.65	1.57
1.9300	53.30	1.52	51.46	1.60
1.9400	53.30	1.52	51.62	1.61
1.9500	53.30	1.52	51.58	1.62
1.9600	53.30	1.52	51.59	1.64
1.9700	53.30	1.52	51.50	1.64
1.9800	53.30	1.52	51.48	1.65
1.9900	53.30	1.52	51.35	1.67
2.0000	53.30	1.52	51.38	1.69

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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 Testing and Engineering Services Ltd.	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 2450 MHz System Performance Check & DUT Evaluation (Body)

---

Celltech Labs Inc.  
 Test Result for UIM Dielectric Parameter

07/May/2010

Frequency (GHz)

FCC\_eB FCC Limits for Body Epsilon

FCC\_sB FCC Limits for Body Sigma

Test\_e Epsilon of UIM

Test\_s Sigma of UIM

---

Freq	FCC_eB	FCC_sB	Test_e	Test_s
2.3500	52.83	1.85	51.51	1.88
2.3600	52.82	1.86	51.53	1.90
2.3700	52.81	1.87	51.59	1.89
2.3800	52.79	1.88	51.59	1.91
2.3900	52.78	1.89	51.52	1.97
2.4000	52.77	1.90	51.51	1.96
2.4100	52.75	1.91	51.50	1.97
2.4200	52.74	1.92	51.59	1.97
2.4300	52.73	1.93	51.39	1.97
2.4400	52.71	1.94	51.60	2.00
2.4500	52.70	1.95	51.50	2.02
2.4600	52.69	1.96	51.39	2.03
2.4700	52.67	1.98	51.21	2.03
2.4800	52.66	1.99	51.39	2.04
2.4900	52.65	2.01	51.31	2.05
2.5000	52.64	2.02	51.19	2.07
2.5100	52.62	2.04	51.37	2.10
2.5200	52.61	2.05	51.20	2.10
2.5300	52.60	2.06	51.13	2.13
2.5400	52.59	2.08	51.08	2.12
2.5500	52.57	2.09	51.13	2.18

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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Test Report Revision No.  
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Test Report Issue Date  
June 08, 2010

Description of Test(s)  
Specific Absorption Rate

RF Exposure Category  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

## APPENDIX D - SAR TEST SETUP & DUT PHOTOGRAPHS

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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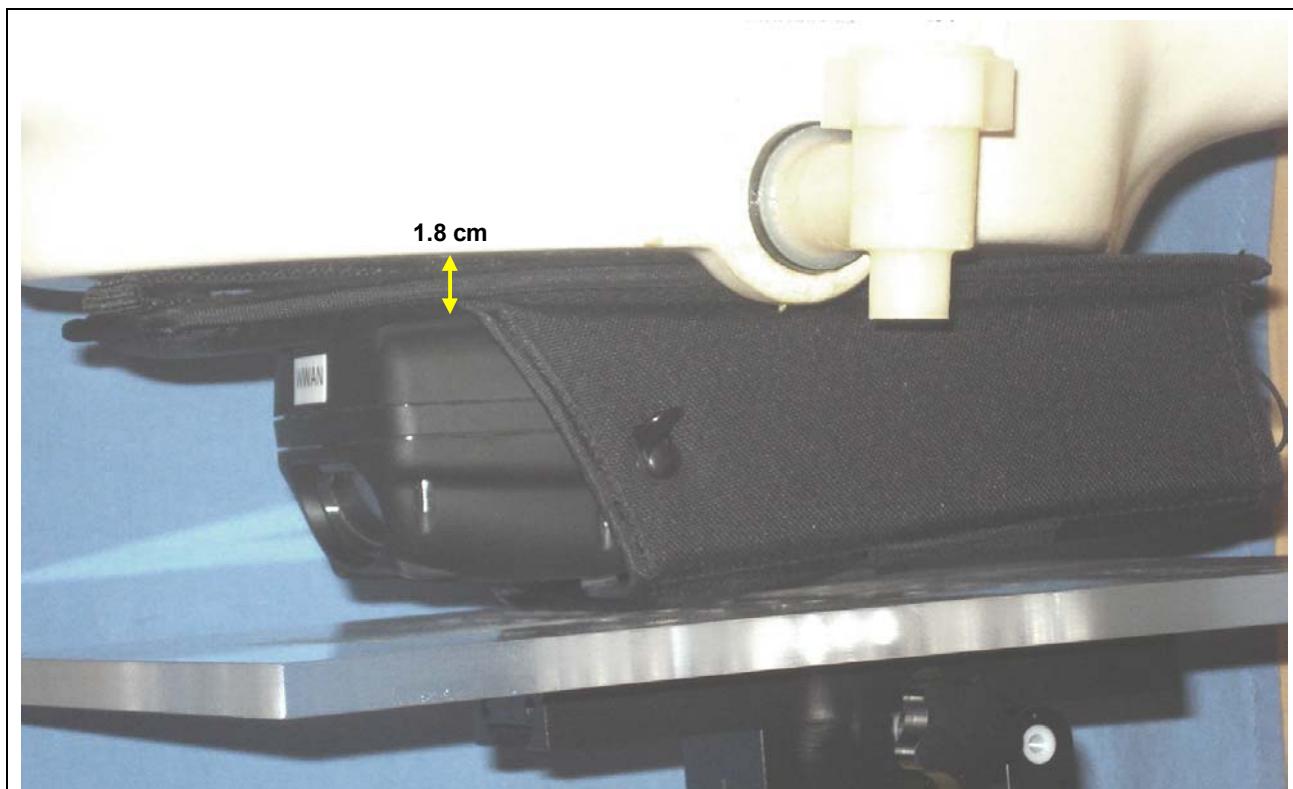
Test Report Revision No.  
Rev. 1.1 (2nd Release)

RF Exposure Category  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

**BODY SAR TEST SETUP PHOTOGRAPHS**  
**DUT with FC3422HOLSTER Body-worn Accessory**  
**Keypad Side of DUT Facing Planar Section of SAM Phantom**  
**1.8 cm holster accessory thickness between DUT and Phantom**



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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041310KDZ-T1014-S24G

Test Report Revision No.  
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Test Report Issue Date  
June 08, 2010

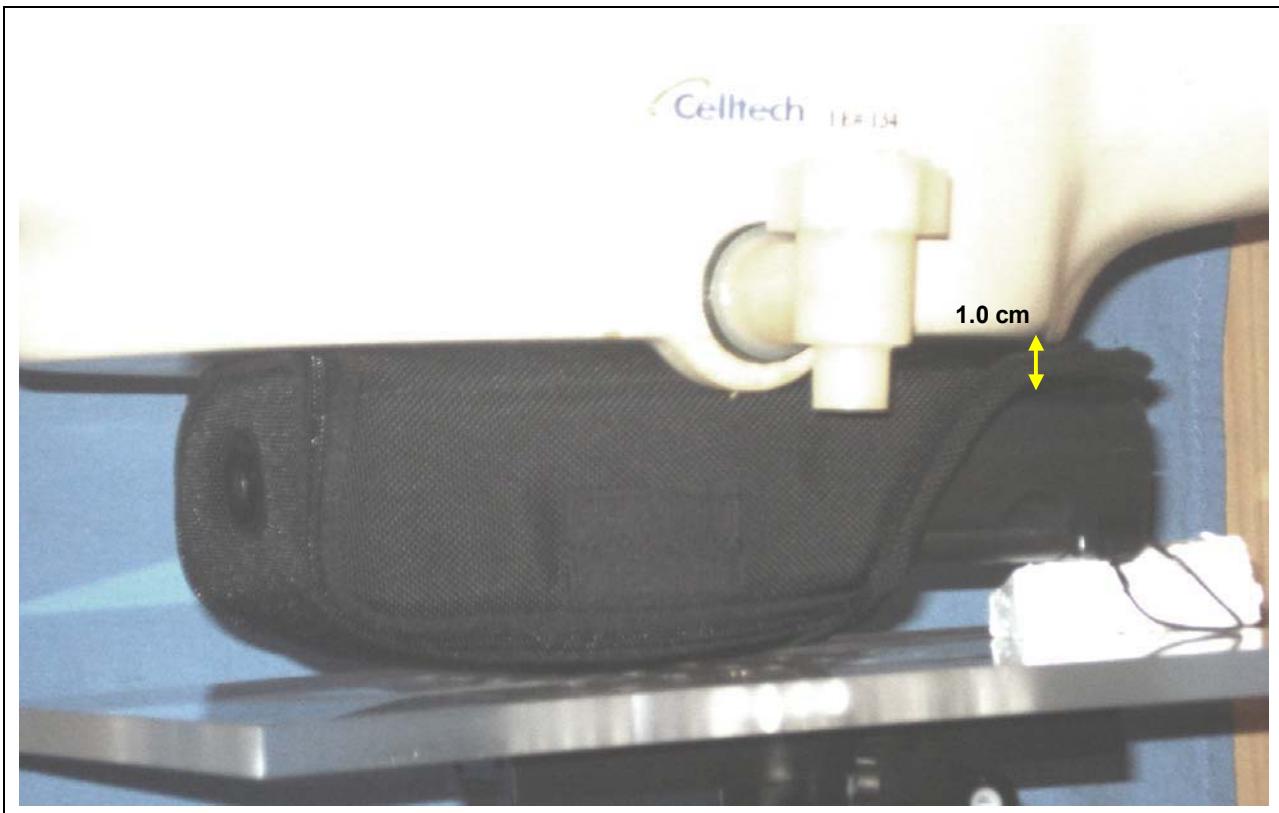
Description of Test(s)  
Specific Absorption Rate

RF Exposure Category  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

**BODY SAR TEST SETUP PHOTOGRAPHS**  
**DUT with MX9420HOLSTER Body-worn Accessory**  
**Keypad Side of DUT Facing Planar Section of SAM Phantom**  
**1.0 cm holster accessory thickness between DUT and Phantom**



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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Test Report Issue Date  
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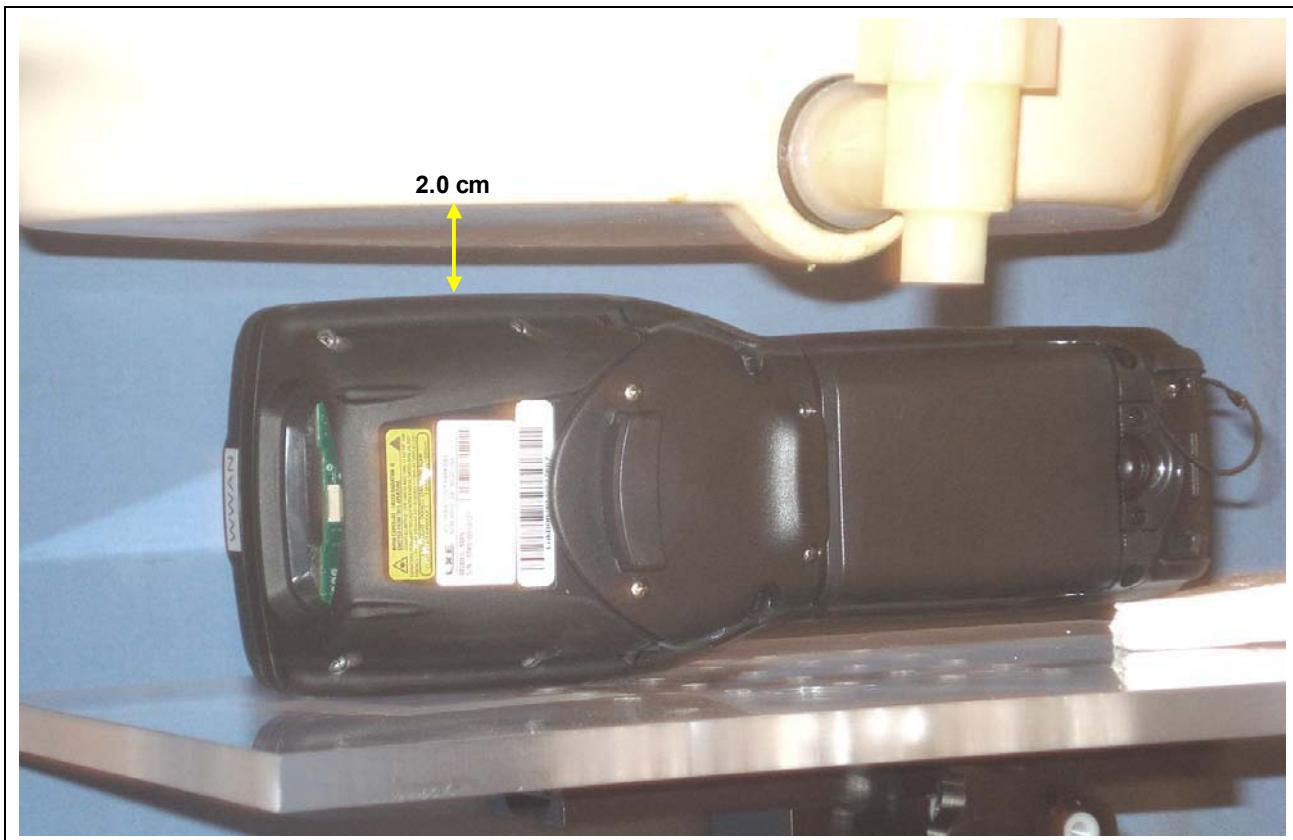
Description of Test(s)  
Specific Absorption Rate

RF Exposure Category  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

**BODY SAR TEST SETUP PHOTOGRAPHS**  
Left Side of DUT Facing Planar Section of SAM Phantom  
2.0 cm air-gap spacing between Left Side of DUT and Phantom



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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041310KDZ-T1014-S24G

Test Report Revision No.  
Rev. 1.1 (2nd Release)

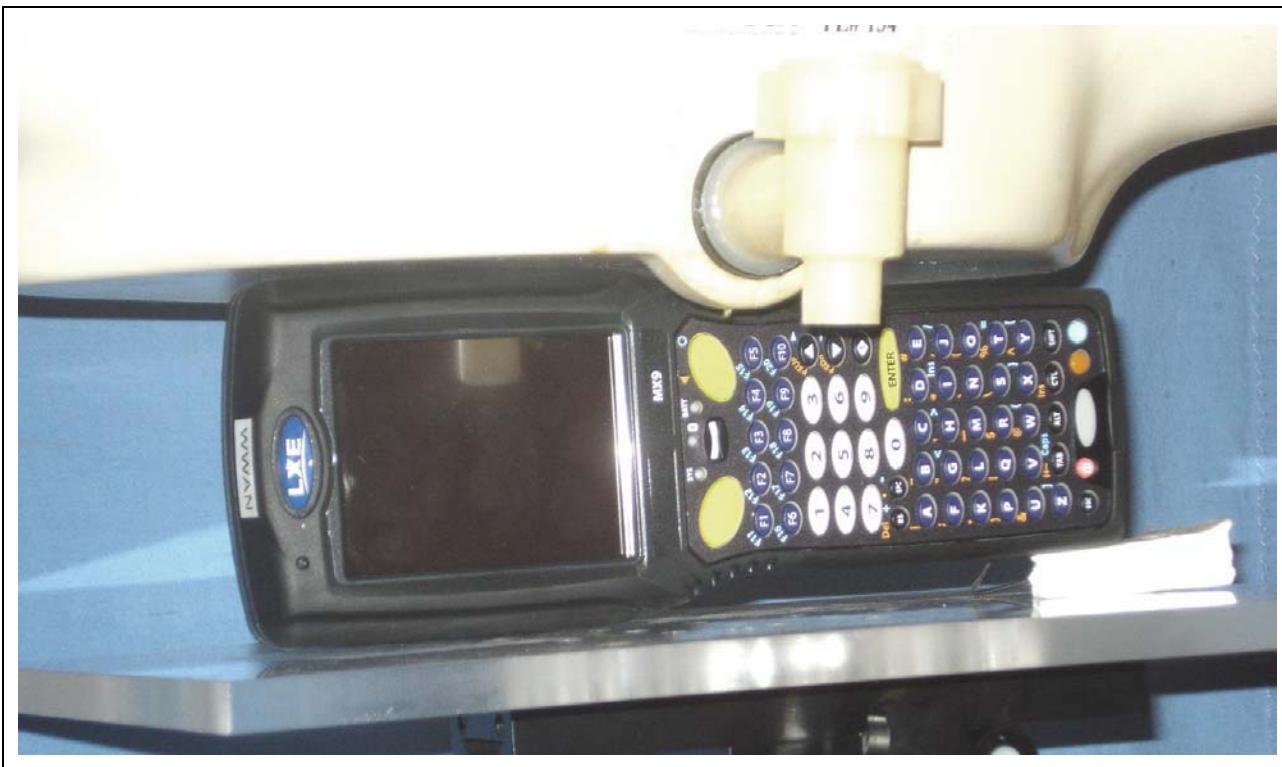
RF Exposure Category  
Specific Absorption Rate  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

## BODY SAR TEST SETUP PHOTOGRAPHS

Right Side of DUT Touching Planar Section of SAM Phantom



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth	Add 802.11bg WLAN Co-Tx		
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## DUT PHOTOGRAPHS



Front Side of DUT



Back Side of DUT



Back Side of DUT (battery removed)

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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Test Lab Certificate No. 2470.01

## DUT PHOTOGRAPHS



Right Side Keypad Edge of DUT



Left Side Keypad Edge of DUT



Left Side Keypad Edge of DUT



Right Side Keypad Edge of DUT

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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## DUT PHOTOGRAPHS



Bottom end of DUT



Top end of DUT



Li-ion Battery P/N: 161888-0001



Li-ion Battery P/N: 161888-0001

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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RF Exposure Category  
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Test Lab Certificate No. 2470.01

## DUT PHOTOGRAPHS



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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Description of Test(s)

Specific Absorption Rate

RF Exposure Category

Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

## DUT PHOTOGRAPHS



Front Side of FC3422HOLSTER accessory



Bottom end of FC3422HOLSTER accessory with DUT



Top end of FC3422HOLSTER accessory with DUT



Inside view of FC3422HOLSTER accessory

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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Description of Test(s)  
Specific Absorption Rate

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Rev. 1.1 (2nd Release)

RF Exposure Category  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

## DUT PHOTOGRAPHS



Left Side of FC3422HOLSTER accessory

Right Side of FC3422HOLSTER accessory

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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## DUT PHOTOGRAPHS



Front Side of MX9420HOLSTER accessory with DUT



Back Side of MX9420HOLSTER accessory

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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RF Exposure Category  
Specific Absorption Rate



Test Lab Certificate No. 2470.01

## DUT PHOTOGRAPHS



Front Side of MX9420HOLSTER accessory



Bottom end of MX9420HOLSTER accessory with DUT



Top end of MX9420HOLSTER accessory with DUT



Inside view of MX9420HOLSTER accessory

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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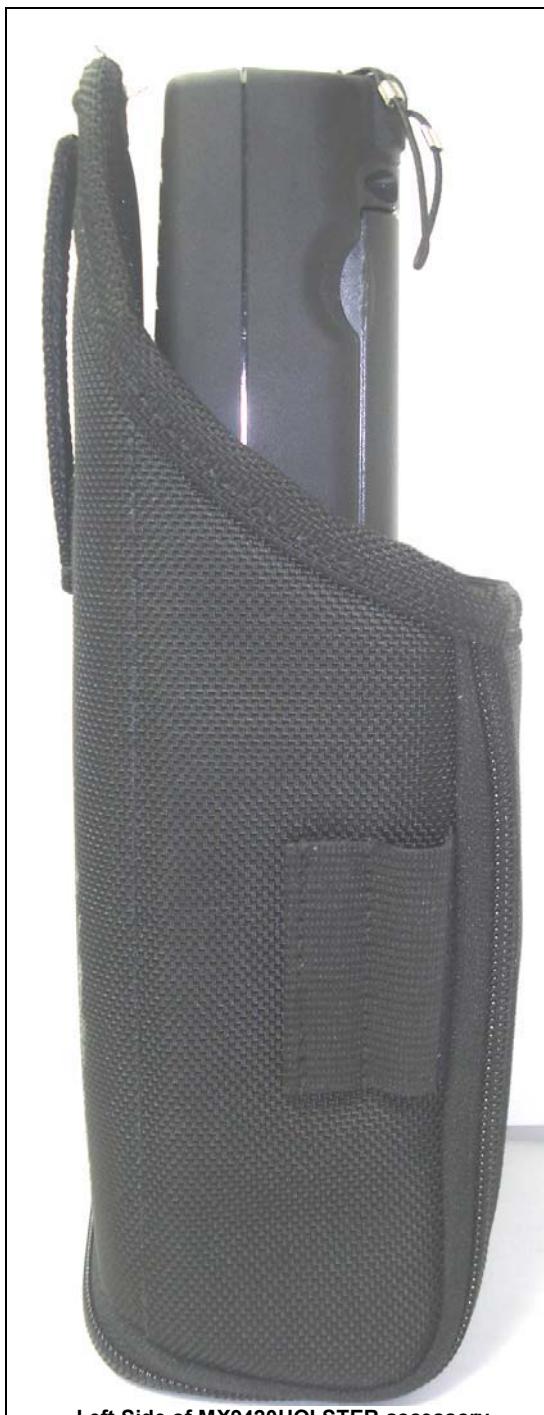
Test Report Revision No.  
Rev. 1.1 (2nd Release)

RF Exposure Category  
Specific Absorption Rate  
Gen. Pop. / Uncontrolled



Test Lab Certificate No. 2470.01

## DUT PHOTOGRAPHS



Left Side of MX9420HOLSTER accessory



Right Side of MX9420HOLSTER accessory

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
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Test Lab Certificate No. 2470.01

## APPENDIX G - SAM PHANTOM CERTIFICATE OF CONFORMITY

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
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# Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

## Certificate of conformity / First Article Inspection

Item	SAM Twin Phantom V4.0
Type No	QD 000 P40 BA
Series No	TP-1002 and higher
Manufacturer / Origin	Untersee Composites Hauptstr. 69 CH-8559 Fruthwilen Switzerland

### Tests

The series production process used allows the limitation to test of first articles. Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

Test	Requirement	Details	Units tested
Shape	Compliance with the geometry according to the CAD model.	IT'IS CAD File (*)	First article, Samples
Material thickness	Compliant with the requirements according to the standards	2mm +/- 0.2mm in specific areas	First article, Samples
Material parameters	Dielectric parameters for required frequencies	200 MHz – 3 GHz Relative permittivity < 5 Loss tangent < 0.05.	Material sample TP 104-5
Material resistivity	The material has been tested to be compatible with the liquids defined in the standards	Liquid type HSL 1800 and others according to the standard.	Pre-series, First article

### Standards

- [1] CENELEC EN 50361
- [2] IEEE P1528-200x draft 6.5
- [3] IEC PT 62209 draft 0.9

(\*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

### Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date

18.11.2001

Signature / Stamp

  
Schmid & Partner  
Engineering AG

Zeughausstrasse 43, CH-8004 Zurich  
Tel. +41 1 245 97 00, Fax +41 1 245 97 79