

	Date(s) of Evaluation Dec 30/14 Jan 22/15	Test Report Serial No. 121814OWD-1302-S	Test Report Revision No. Rev. 1.2	
	Test Report Issue Date Sep 21, 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

Test Lab Certificate No. 2470.01

DECLARATION OF COMPLIANCE

SAR RF EXPOSURE EVALUATION - FCC / IC Original Filing

TEST LAB INFORMATION	Name	CELLTECH LABS INC.				
	Address	21-364 Lougheed Road, Kelowna, B.C. V1X 7R8 Canada				
TEST LAB ACCREDITATION	Type	ISO / IEC 17025	Accreditation	A2LA Test Lab Certificate No. 2470.01		
APPLICANT INFORMATION	Name	HARRIS CORPORATION				
	Address	221 Jefferson Ridge Parkway, Lynchburg, VA 24501 U.S.A.				
STANDARDS APPLIED	FCC	47 CFR §2.1093	IC	Health Canada Safety Code 6		
PROCEDURES APPLIED	FCC	KDB 447498 D01v05r02, KDB 865664 D01v01r03	IC	RSS 102 Issue 4		
	FCC	KDB 865664 D02v01r01, KDB 643646 D01v01r01	IEC			
	IEEE	IEEE 1528-2013	IEC			
DEVICE CLASSIFICATION	FCC	Licensed Non-Broadcast Transmitter Held to Face (TNF) - FCC Part 90				
	IC	Land Mobile Radio Transmitter/Receiver (27.41-960 MHz) - RSS-119				
DEVICE DESCRIPTION	Portable Multi-Band Digital Push-To-Talk (PTT) Radio Transceiver					
APPLICATION TYPE	New Filing					
DATE(S) OF EVALUATION	December 30, 2014 – January 22, 2015		SAMPLES RECEIVED	December 18, 2014		
Devices Evaluated						
FCC ID	IC Certification	Model	Type	Frequency Range	Manufacturer's Rated Output Power	
OWDTR-0133-E	3636B-0133	XL-200P	System & Scan	136-174MHz 378-522MHz 768-776MHz 798-806MHz 806-816MHz 851-861MHz	6W 5W 3W 3W 3W 3W	
Antenna Type(s) Tested	KRE1011219/2, KRE1011506/1, KRE1011506/2, 14035-4000-01					
Battery Type(s) Tested	See Section 5.0					
Body-worn Accessories Tested	See Section 5.0					
Audio Accessories Tested	See Section 5.0					
Maximum SAR Level Evaluated FCC	Head	1.88	W/kg	1g	50% PTT Duty Factor	Occupational / Controlled Exposure
	Body	5.20				
Maximum SAR Level Evaluated IC	Head	1.95	W/kg	1g	50% PTT Duty Factor	Occupational / Controlled Exposure
	Body	5.46				
FCC / IC Spatial Peak SAR Limit	Head /Body	8.0	W/kg	1g	50% PTT Duty Factor	Occupational / Controlled Exposure
Statement of Compliance						
Celltech Labs Inc. declares under its sole responsibility that the Harris Corporation Model XL-200P Portable PTT Transceiver has demonstrated compliance with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada Safety Code 6 for the Occupational/Controlled Exposure environment. The device was tested in accordance with the measurement procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01), Industry Canada RSS-102 Issue 4, IEEE Standard 1528-2013 and International Standard IEC 62209-2:2010. All measurements were performed in accordance with the SAR system manufacturer recommendations. The results and statements contained in this report pertain only to the device(s) evaluated 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.						
Test Report Approved By			Art Voss, P.Eng.	Senior Engineer	Celltech Labs Inc.	

Applicant:	Harris Corporation	Original Filing	
DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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1.0 DOCUMENT CONTROL

REVISION HISTORY			
REVISION NO.	DESCRIPTION	IMPLEMENTED BY	RELEASE DATE
1.0	1st Release	Art Voss	January 27, 2015
1.1	2nd Release – Corrected part numbers	Art Voss	February 10, 2015
1.2	Corrections per FCC	Art Voss	September 21, 2016

TEST REPORT SIGN-OFF			
DEVICE TESTED BY	REPORT PREPARED BY	QA REVIEW BY	REPORT APPROVED BY
Art Voss/Jasmeet Gill	Art Voss	Art Voss	Art Voss

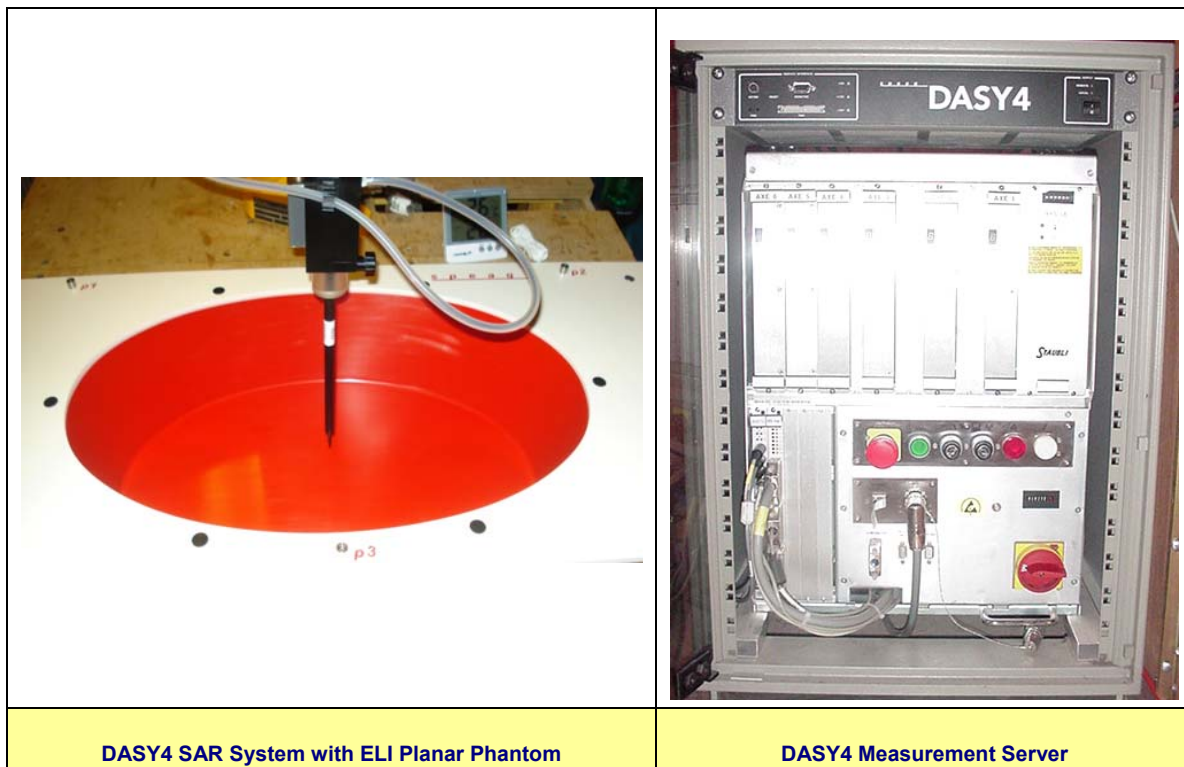
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2.0 INTRODUCTION

This measurement report demonstrates that the HARRIS Corporation XL-200P Portable PTT Radio Transceivers complies with the SAR (Specific Absorption Rate) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6 for the Occupational / Controlled Exposure environment. The measurement procedures were in accordance of KDB 447498; KDB 865664; IC RSS-102 Issue 4 and IEEE Standard 1528-2013. A description of the device, operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used and the various provisions of the rules are included within this test report. Subsequent addendums were applied to the following Radio Transceivers:

3.0 SAR MEASUREMENT SYSTEM

Celltech Labs Inc. SAR measurement facility employs a Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 measurement system is comprised of the measurement server, a robot controller, a computer, a near-field probe, a probe alignment sensor, an Elliptical Planar Phantom (ELI) phantom and a specific anthropomorphic mannequin (SAM) phantom for Head 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 and a teach pendant (Joystick) to control the robot's servo 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 form the DAE to digital electronic signal 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, a command decoder and a 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.



DASY4 SAR System with ELI Planar Phantom

DASY4 Measurement Server

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4.0 RF CONDUCTED POWER MEASUREMENT

Table 4.0

RF Conducted Power Measurement Average Conducted Power⁽¹⁾								
Frequency Band	Frequency (MHz)	System Radio		Scan Radio		Rated Power (dBm)	Rated Power (W)	Test Channel ⁽²⁾
		Measured Power (dBm)	Measured Power (W)	Measured Power (dBm)	Measured Power (W)			
VHF	136.0000	38.3	6.7	38.3	6.7	37.8	6.0	X
	138.0000	38.3	6.7	38.3	6.7	37.8	6.0	X
	141.0000	38.3	6.7	38.3	6.7	37.8	6.0	X
	144.0000	38.3	6.8	38.3	6.8	37.8	6.0	
	148.0000	38.3	6.8	38.3	6.8	37.8	6.0	X
	150.0000	38.3	6.8	38.3	6.8	37.8	6.0	
	156.8000	38.3	6.7	38.3	6.7	37.8	6.0	X
	162.0000	38.2	6.7	38.2	6.7	37.8	6.0	X
	174.0000	38.2	6.7	38.2	6.7	37.8	6.0	X
UHF	378.0000	37.2	5.2	37.2	5.2	37.0	5.0	X
	406.0000	37.2	5.2	37.2	5.2	37.0	5.0	X
	418.0000	37.2	5.2	37.2	5.2	37.0	5.0	X
	430.0000	38.3	6.8	38.3	6.8	37.0	5.0	X
	450.0000	38.3	6.8	38.3	6.8	37.0	5.0	X
	454.0000	37.2	5.2	37.2	5.2	37.0	5.0	X
	456.0000	37.2	5.2	37.2	5.2	37.0	5.0	
	459.0000	37.2	5.2	37.2	5.2	37.0	5.0	X
	470.0000	37.0	5.0	37.0	5.0	37.0	5.0	X
	512.0000	37.2	5.2	37.2	5.2	37.0	5.0	
	522.0000	37.1	5.1	37.1	5.1	37.0	5.0	X

(1) The RF conducted output power levels of the DUT were measured by Celltech Labs prior to the SAR evaluations using a Gigatronics 8652A Universal Power Meter at the external antenna connector of the radio in accordance with requirements of FCC 47 CFR §2.1046 and IC RSS-Gen.

(2) See Section 4.0

Table 4.1

RF Conducted Power Measurement Average Conducted Power⁽¹⁾								
Frequency Band	Frequency (MHz)	System Radio		Scan Radio		Rated Power (dBm)	Rated Power (W)	Test Channel ⁽²⁾
		Measured Power (dBm)	Measured Power (W)	Measured Power (dBm)	Measured Power (W)			
700 MHz	768.0000	34.1	2.6	34.1	2.6	34.7	3.0	X
	769.0000	34.1	2.5	34.1	2.5	34.7	3.0	
	771.0000	33.9	2.5	33.9	2.5	34.7	3.0	
	775.0000	34.0	2.5	34.0	2.5	34.7	3.0	
	776.0000	34.1	2.6	34.1	2.6	34.7	3.0	X
	798.0000	34.0	2.5	34.0	2.5	34.7	3.0	
	799.0000	34.0	2.5	34.0	2.5	34.7	3.0	
	801.0000	34.0	2.5	34.0	2.5	34.7	3.0	
	805.0000	34.1	2.6	34.1	2.6	34.7	3.0	
	806.0000	34.1	2.6	34.1	2.6	34.7	3.0	X
800 ⁽³⁾ MHz	851.0000	34.9	3.1	34.9	3.1	34.7	3.0	X
	856.0000	35.0	3.2	35.0	3.2	34.7	3.0	X
	861.0000	34.8	3.0	34.8	3.0	34.7	3.0	X
NOTES: (1) The RF conducted output power levels of the DUT were measured by Celltech Labs prior to the SAR evaluations using a Gigatronics 8652A Universal Power Meter at the external antenna connector of the radio in accordance with requirements of FCC 47 CFR §2.1046 and IC RSS-Gen. (2) See Section 4.0 (3) 806-816MHz Band not evaluated.								

5.0 NUMBER OF TEST CHANNELS (N_c)

Table 5.0

Number of Test Channels (N_c)					
Antenna	P/N	Antenna Type	Frequency Range (MHz)	$N_c^{(1)}$	$N_c^{(2)}$
14035-4000-01		Whip	136-861 ⁽³⁾		
KRE1011219/2		Helical	150-162		
KRE1011506/1		1/2 Wave Whip	764-870		
KRE1011506/2		1/4 Wave Whip	764-870		
n/a		VHF Band	136-174	5	7
n/a		UHF Band	378-522	8	9
n/a		700 Band	768-806	3	3
n/a		800 Band	851-561	3	3

Notes

(1) In accordance with FCC KDB 447498

(2) In accordance with IEC 62209-1. Maximum number of test channels was used.

(3) This is a full spectrum antenna. Channel selection was based on individual radio bands

6.0 MANUFACTURER'S ACCESSORY LIST

Table 6.0

Manufacturer's Accessory List			
Test Report ID Number	Manufacturer's Part Number	Description	SAR Evaluated
Antenna			
T1	KRE1011506/1	1/2 wave whip antenna, (764-870 MHz)	X
T2	KRE1011506/2	1/4 wave whip antenna, (764-870 MHz)	X
T3	KRE1011219/2	Helical VHF	X
T4	14035-4000-01	Full spectrum whip antenna	X
Battery			
P1	14034-4010-01	Li-Ion Battery 7.2VDC, 3300mAh	X
Audio Accessory			
A1	12082-0600-01	Standard Speaker Microphone	X
A2	12082-0600-02	Storm Speaker Microphone	X
A3	12150-1000-01	Premium Speaker MIC, Fire, NC, Hirose	
A4	12082-0650-01	Microphone, Palm, 2-Wire Black	X
A5	12082-0650-03	Microphone, Mini Lapel, 3-Wire Black	
A25	14002-0197-01	Hirose to Unity Adapter	X
Body-Worn Accessory			

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B1	12082-1290-01	Belt Clip	X
B2	12082-3230-01	D-Swivel (Used w/ 14002-0218-01 and KRY 1011609/1)	
B3	14002-0218-01	Premium Belt Loop	X
B15	KRY1011609/1	Leather Belt Loop	X
B14	CC103333V1	Shoulder Strap	

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7.0 SAR MEASUREMENT SUMMARY

Table 7.0

UHF Band - FACE SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	Spacing								Power	PTT Duty Cycle				
	M/N	Type					Body	Audio		(mm)	(mm)	(dBm)	100%	
30 Dec 2014	XL-200P	System	F1	378	P1	T4	n/a	n/a	25	52	37.2	2.610	2.040	-0.705
30 Dec 2014	XL-200P	System	F2	406	P1	T4	n/a	n/a	25	52	37.2	3.750	2.900	-0.155
30 Dec 2014	XL-200P	System	F3	418	P1	T4	n/a	n/a	25	52	37.2	3.550	2.740	-0.419
30 Dec 2014	XL-200P	System	F4	430	P1	T4	n/a	n/a	25	52	38.3	3.330	2.570	-0.404
30 Dec 2014	XL-200P	System	F5	450	P1	T4	n/a	n/a	25	52	38.3	2.730	2.090	-0.756
30 Dec 2014	XL-200P	System	F6	454	P1	T4	n/a	n/a	25	52	37.2	2.570	1.970	-1.000
30 Dec 2014	XL-200P	System	F7	459	P1	T4	n/a	n/a	25	52	37.2	2.290	1.750	-0.861
31 Dec 2014	XL-200P	System	F8	470	P1	T4	n/a	n/a	25	52	37.0	1.530	1.180	-0.713
31 Dec 2014	XL-200P	System	F9	522	P1	T4	n/a	n/a	25	52	37.2	2.270	1.720	-1.090
31 Dec 2014	XL-200P	SCAN	F10	406	P1	T4	n/a	n/a	25	52	37.2	3.530	2.730	-0.168
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T4 = 14035-4000-01 Full Spectrum Whip Antenna
P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mA

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Table 7.1

UHF Band - Body SAR Evaluation Results (FCC/IC)														
Date	Radio Model		Plot #	Freq	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR		SAR Drift
									Spacing			1g (W/kg)	PTT Duty Cycle	
	M/N	Type		(MHz)			Body	Audio	(mm)	(mm)	(dBm)	100%		
6 Jan 2015	XL-200P	System	B1	378	P1	T4	B1	A1	20	22	37.2	8.040	4.020	-0.099
6 Jan 2015	XL-200P	System	B2	406	P1	T4	B1	A1	20	22	37.2	9.240	4.620	-0.218
6 Jan 2015	XL-200P	System	B3	418	P1	T4	B1	A1	20	22	37.2	9.240	4.620	-0.276
6 Jan 2015	XL-200P	System	B4	430	P1	T4	B1	A1	20	22	38.3	8.540	4.270	-0.343
6 Jan 2015	XL-200P	System	B5	450	P1	T4	B1	A1	20	22	38.3	7.000	3.500	-0.874
6 Jan 2015	XL-200P	System	B6	454	P1	T4	B1	A1	20	22	37.2	5.840	2.920	-0.948
6 Jan 2015	XL-200P	System	B7	459	P1	T4	B1	A1	20	22	37.2	5.930	2.965	-0.999
7 Jan 2015	XL-200P	System	B8	470	P1	T4	B1	A1	20	22	37.0	2.340	1.170	-1.240
7 Jan 2015	XL-200P	System	B9	522	P1	T4	B1	A1	20	22	37.2	5.070	2.535	-0.434
7 Jan 2015	XL-200P	SCAN	B10	418	P1	T4	B1	A1	20	22	37.2	7.970	3.985	-0.247
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T4= 14035-4000-01 Full Spectrum Whip Antenna
P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh
B1 = 12082-1290-01 Metal Belt Clip
A1 = 12082-6000-01 Standard Speaker Microphone

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Table 7.2

7/800 Band - FACE SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	M/N	Type							Spacing			Power	PTT Duty Cycle	
							Body	Audio	(mm)	(mm)	(dBm)		100%	
8 Jan 2015	XL-200P	System	F11	768	P1	T4	n/a	n/a	25	52	34.1	2.730	1.365	-0.516
8 Jan 2015	XL-200P	System	F12	776	P1	T4	n/a	n/a	25	52	34.1	2.540	1.270	-0.529
8 Jan 2015	XL-200P	System	F13	806	P1	T4	n/a	n/a	25	52	34.1	1.880	0.940	-0.560
9 Jan 2015	XL-200P	System	F14	851	P1	T4	n/a	n/a	25	52	34.9	1.540	0.770	-0.930
9 Jan 2015	XL-200P	System	F15	856	P1	T4	n/a	n/a	25	52	35.0	1.490	0.745	-0.839
9 Jan 2015	XL-200P	System	F16	861	P1	T4	n/a	n/a	25	52	34.8	1.340	0.670	-0.468
9 Jan 2015	XL-200P	SCAN	F17	768	P1	T4	n/a	n/a	25	52	34.1	2.350	1.175	-0.391
SAR LIMIT(S)						Head/Body	Spatial Peak	RF Exposure Category						
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg	1g average	Occupational						

T4 = 14035-4000-01 Full Spectrum Whip Antenna
P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh

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Table 7.3

7/800 Band - FACE SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
									Spacing			Power	PTT Duty Cycle	
	M/N	Type					Body	Audio	(mm)	(mm)	(dBm)		100%	
19 Jan 2015	XL-200P	System	F34	768	P1	T2	n/a	n/a	25	52	34.1	1.430	0.715	-0.599
19 Jan 2015	XL-200P	System	F35	776	P1	T2	n/a	n/a	25	52	34.1	2.250	1.125	-0.411
19 Jan 2015	XL-200P	System	F36	806	P1	T2	n/a	n/a	25	52	34.1	1.940	0.970	-0.489
19 Jan 2015	XL-200P	System	F37	851	P1	T2	n/a	n/a	25	52	34.9	1.870	0.935	-0.354
19 Jan 2015	XL-200P	System	F38	856	P1	T2	n/a	n/a	25	52	35.0	1.880	0.940	-0.370
19 Jan 2015	XL-200P	System	F39	861	P1	T2	n/a	n/a	25	52	34.8	1.790	0.895	-0.169
19 Jan 2015	XL-200P	SCAN	F40	776	P1	T2	n/a	n/a	25	52	34.1	2.070	1.035	-0.429
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T2 = KRE1011506/2 ¼ Wave Whip Antenna

P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh

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DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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Test Lab Certificate No. 2470.01

Table 7.4

7/800 Band - FACE SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	M/N	Type							Spacing			Power	PTT Duty Cycle	
							Body	Audio	(mm)	(mm)	(dBm)		100%	
19 Jan 2015	XL-200P	System	F41	768	P1	T1	n/a	n/a	25	52	34.1	0.950	0.475	-0.725
19 Jan 2015	XL-200P	System	F42	776	P1	T1	n/a	n/a	25	52	34.1	1.070	0.535	-0.676
19 Jan 2015	XL-200P	System	F43	806	P1	T1	n/a	n/a	25	52	34.1	1.340	0.670	-0.599
19 Jan 2015	XL-200P	System	F44	851	P1	T1	n/a	n/a	25	52	34.9	1.130	0.565	-0.400
19 Jan 2015	XL-200P	System	F45	856	P1	T1	n/a	n/a	25	52	35.0	0.993	0.497	-0.674
19 Jan 2015	XL-200P	System	F46	861	P1	T1	n/a	n/a	25	52	34.8	0.851	0.426	-0.389
19 Jan 2015	XL-200P	SCAN	F47	806	P1	T1	n/a	n/a	25	52	34.1	1.300	0.650	-0.563
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T1 = KRE1011506/1 ½ Wave Whip Antenna

P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh

Applicant:	Harris Corporation	Original Filing	
DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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Table 7.5

7/800 Band - BODY SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	M/N	Type							Spacing			Power	PTT Duty Cycle	
							Body	Audio	DUT (mm)	ANT (mm)	(dBm)		100%	
20 Jan 2015	XL-200P	System	B27	768	P1	T4	B1	A1	20	22	34.1	2.330	1.165	-0.399
20 Jan 2015	XL-200P	System	B28	776	P1	T4	B1	A1	20	22	34.1	4.890	2.445	-0.499
20 Jan 2015	XL-200P	System	B29	806	P1	T4	B1	A1	20	22	34.1	4.010	2.005	-0.351
21 Jan 2015	XL-200P	System	B30	851	P1	T4	B1	A1	20	22	34.9	4.130	2.065	-0.562
21 Jan 2015	XL-200P	System	B31	856	P1	T4	B1	A1	20	22	35.0	3.860	1.930	-0.377
21 Jan 2015	XL-200P	System	B32	861	P1	T4	B1	A1	20	22	34.8	2.890	1.445	-0.616
21 Jan 2015	XL-200P	SCAN	B33	776	P1	T4	B1	A1	20	22	34.1	3.620	1.810	-0.300
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T4= 14035-4000-01 Full Spectrum Whip Antenna
P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh
B1 = 12082-1290-01 Metal Belt Clip
A1 = 12082-6000-01 Standard Speaker Microphone

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DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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Table 7.6

7/800 Band - BODY SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	M/N	Type							Spacing			Power	PTT Duty Cycle	
							Body	Audio	(mm)	(mm)	(dBm)		100%	
21 Jan 2015	XL-200P	System	B34	768	P1	T2	B1	A1	20	22	34.1	3.220	1.610	-0.945
21 Jan 2015	XL-200P	System	B35	776	P1	T2	B1	A1	20	22	34.1	4.240	2.120	-0.510
21 Jan 2015	XL-200P	System	B36	806	P1	T2	B1	A1	20	22	34.1	4.390	2.195	-0.528
21 Jan 2015	XL-200P	System	B37	851	P1	T2	B1	A1	20	22	34.9	5.000	2.500	-0.609
21 Jan 2015	XL-200P	System	B38	856	P1	T2	B1	A1	20	22	35.0	5.960	2.980	-0.445
21 Jan 2015	XL-200P	System	B39	861	P1	T2	B1	A1	20	22	34.8	6.080	3.040	-0.398
21 Jan 2015	XL-200P	SCAN	B40	861	P1	T2	B1	A1	20	22	34.8	6.690	3.345	-0.287
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T2 = KRE1011506/2 ¼ Wave Whip Antenna

P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh

B1 = 12082-1290-01 Metal Belt Clip

A1 = 12082-6000-01 Standard Speaker Microphone

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Table 7.7

7/800 Band - BODY SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	M/N	Type							Spacing			Power	PTT Duty Cycle	
							Body	Audio	DUT (mm)	ANT (mm)	(dBm)		100%	
21 Jan 2015	XL-200P	System	B41	768	P1	T1	B1	A1	20	22	34.1	3.540	1.770	-0.801
21 Jan 2015	XL-200P	System	B42	776	P1	T1	B1	A1	20	22	34.1	4.270	2.135	-0.609
21 Jan 2015	XL-200P	System	B43	806	P1	T1	B1	A1	20	22	34.1	3.970	1.985	-0.615
21 Jan 2015	XL-200P	System	B44	851	P1	T1	B1	A1	20	22	34.9	3.960	1.980	-0.463
21 Jan 2015	XL-200P	System	B45	856	P1	T1	B1	A1	20	22	35.0	2.510	1.255	-0.710
21 Jan 2015	XL-200P	System	B46	861	P1	T1	B1	A1	20	22	34.8	2.650	1.325	-0.536
21 Jan 2015	XL-200P	SCAN	B47	776	P1	T1	B1	A1	20	22	34.1	4.030	2.015	-0.643
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T1 = KRE1011506/1 ½ Wave Whip Antenna

P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh

B1 = 12082-1290-01 Metal Belt Clip

A1 = 12082-6000-01 Standard Speaker Microphone

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Table 7.8

VHF Band - HEAD SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	M/N	Type							Spacing			Power	PTT Duty Cycle	
							Body	Audio	(mm)	(mm)	(dBm)		100%	50%
10 Jan 2015	XL-200P	System	F18	136	P1	T4	n/a	n/a	25	52	38.3	1.360	0.680	-0.600
10 Jan 2015	XL-200P	System	F19	138	P1	T4	n/a	n/a	25	52	38.3	1.150	0.575	-0.435
10 Jan 2015	XL-200P	System	F20	141	P1	T4	n/a	n/a	25	52	38.3	0.639	0.320	-0.317
10 Jan 2015	XL-200P	System	F21	148	P1	T4	n/a	n/a	25	52	38.3	0.460	0.230	-0.141
10 Jan 2015	XL-200P	System	F22	156.8	P1	T4	n/a	n/a	25	52	38.3	0.513	0.257	-0.593
10 Jan 2015	XL-200P	System	F23	162	P1	T4	n/a	n/a	25	52	38.2	0.481	0.241	-0.456
10 Jan 2015	XL-200P	System	F24	174	P1	T4	n/a	n/a	25	52	38.2	0.156	0.078	-0.947
10 Jan 2015	XL-200P	SCAN	F25	136	P1	T4	n/a	n/a	25	52	38.3	1.380	0.690	-0.582
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T4= 14035-4000-01 Full Spectrum Whip Antenna

P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh

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DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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Table 7.9

VHF Band - HEAD SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted Power	Measured SAR 1g (W/kg) PTT Duty Cycle		SAR Drift
	M/N	Type							DUT	ANT		100%	50%	
							Body	Audio	(mm)	(mm)	(dBm)			
12 Jan 2015	XL-200P	System	F26	136	P1	T3	n/a	n/a	25	52	38.3	0.206	0.103	-0.735
12 Jan 2015	XL-200P	System	F27	138	P1	T3	n/a	n/a	25	52	38.3	0.279	0.140	-1.030
12 Jan 2015	XL-200P	System	F28	141	P1	T3	n/a	n/a	25	52	38.3	0.348	0.174	-0.594
12 Jan 2015	XL-200P	System	F29	148	P1	T3	n/a	n/a	25	52	38.3	0.453	0.227	-0.318
12 Jan 2015	XL-200P	System	F30	156.8	P1	T3	n/a	n/a	25	52	38.3	1.850	0.925	-0.130
12 Jan 2015	XL-200P	System	F31	162	P1	T3	n/a	n/a	25	52	38.2	2.660	1.330	-0.513
12 Jan 2015	XL-200P	System	F32	174	P1	T3	n/a	n/a	25	52	38.2	0.770	0.385	-0.526
13 Jan 2015	XL-200P	SCAN	F33	162	P1	T3	n/a	n/a	25	52	38.2	3.000	1.500	-0.421
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T3= KRE1011219/2 Helical VHF Antenna

P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh

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Table 7.10

VHF Band - BODY SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	M/N	Type							Spacing			Power	PTT Duty Cycle	
							Body	Audio	(mm)	(mm)	(dBm)		100%	50%
16 Jan 2015	XL-200P	System	B19	136	P1	T4	B1	A1	25	22	38.3	0.906	0.453	-0.429
16 Jan 2015	XL-200P	System	B20	138	P1	T4	B1	A1	25	22	38.3	0.649	0.325	-0.274
16 Jan 2015	XL-200P	System	B21	141	P1	T4	B1	A1	25	22	38.3	0.473	0.237	-0.232
16 Jan 2015	XL-200P	System	B22	148	P1	T4	B1	A1	25	22	38.3	2.450	1.225	-0.542
16 Jan 2015	XL-200P	System	B23	156.8	P1	T4	B1	A1	25	22	38.3	2.550	1.275	1.490
16 Jan 2015	XL-200P	System	B24	162	P1	T4	B1	A1	25	22	38.2	1.140	0.570	-0.460
16 Jan 2015	XL-200P	System	B25	174	P1	T4	B1	A1	25	22	38.2	0.366	0.183	-1.320
16 Jan 2015	XL-200P	SCAN	B26	156.8	P1	T4	B1	A1	25	22	38.3	2.700	1.350	1.830
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T4= 14035-4000-01 Full Spectrum Whip Antenna
P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh
B1 =12082-1290-01 Metal Belt Clip
A1 = 12082-6000-01 Standard Speaker Microphone

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Table 7.11

VHF Band - BODY SAR Evaluation Results (FCC/IC)

Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT		Measured Conducted Power	Measured SAR 1g (W/kg) PTT Duty Cycle		SAR Drift
	M/N	Type							DUT	ANT		100%	50%	
							Body	Audio	(mm)	(mm)	(dBm)			
14 Jan 2015	XL-200P	System	B11	136	P1	T3	B1	A1	25	22	38.3	1.560	0.780	-0.369
14 Jan 2015	XL-200P	System	B12	138	P1	T3	B1	A1	25	22	38.3	2.390	1.195	-0.769
14 Jan 2015	XL-200P	System	B13	141	P1	T3	B1	A1	25	22	38.3	1.180	0.590	-0.325
14 Jan 2015	XL-200P	System	B14	148	P1	T3	B1	A1	25	22	38.3	3.360	1.680	-0.596
14 Jan 2015	XL-200P	System	B15	156.8	P1	T3	B1	A1	25	22	38.3	10.100	5.050	-0.290
14 Jan 2015	XL-200P	System	B16	162	P1	T3	B1	A1	25	22	38.2	5.150	2.575	-0.399
14 Jan 2015	XL-200P	System	B17	174	P1	T3	B1	A1	25	22	38.2	1.180	0.590	-0.644
14 Jan 2015	XL-200P	SCAN	B18	156.8	P1	T3	B1	A1	25	22	38.3	10.400	5.200	-0.214
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T3= KRE1011219/2 Helical VHF Antenna
P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh
B1 =12082-1290-01 Metal Belt Clip
A1 = 12082-6000-01 Standard Speaker Microphone

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Table 7.12

UHF Band - BODY Accessory SAR Evaluation Results (FCC/IC)														
Date	Radio Model		Plot #	Freq	Batt. Type	Antenna	Accessories		DUT		Measured Conducted	Measured SAR 1g (W/kg)		SAR Drift
	M/N	Type							DUT	ANT		Power	PTT Duty Cycle	
				Body			Audio	(mm)	(mm)	(dBm)	100%	50%	(dB)	
22 Jan 2015	XL-200P	System	B48	406	P1	T3	B1	A4	25	22	37.2	9.340	4.670	-0.134
22 Jan 2015	XL-200P	System	B49	406	P1	T3	B1	A25	25	22	37.2	7.290	3.645	-2.440
22 Jan 2015	XL-200P	System	B50	406	P1	T3	B3	A1	35	45	37.2	2.250	1.125	-2.230
22 Jan 2015	XL-200P	System	B51	406	P1	T3	B15	A1	40	50	37.2	4.170	2.085	-0.168
22 Jan 2015	XL-200P	System	B52	406	P1	T3	B1	A2	25	22	37.2	6.780	3.390	-1.580
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category				
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational				

T3= KRE1011219/2 Helical VHF Antenna

P1 = 14035-4010-01 Li-Ion Battery, 7.2VDC, 3300mAh

B1 =12082-1290-01 Metal Belt Clip

B3 = 14002-0218-01 Premium Belt Loop

B15 = KRY1011609/1 Leather Belt Loop

A1 = 12082-6000-01 Standard Speaker Microphone

A2 = 12082-0600-02 Storm Speaker Microphone

A4 = 12082-0650-01 Microphone, Palm, 2-Wire, Black

A15 = 14002-0197-01 Hirose to Unity Adapter

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Uncertain VHF configurations, the Scan radio appeared to exhibit the higher SAR than the System radio. Subsequent comparisons revealed that the difference between the Scan radio and System radio were negligible or produced results by which the System radio produced slightly higher SAR.

Table 7.13

VHF Band - Scan -vs- System ReEvaluation (FCC/IC)															
Date	Radio Model		Plot #	Freq (MHz)	Batt. Type	Antenna	Accessories		DUT*		Measured Conducted	Measured SAR		SAR Drift	Configuration
	M/N	Type							Spacing			Power	1g (W/kg)		
							DUT	ANT	(mm)	(mm)	(dBm)		100%	50%	
20 Sep 2016	XL-200P	SCAN	RF1	162	P1	T3	n/a	n/a	25	52	37.8	2.940	1.470	-0.263	Head
20 Sep 2016	XL-200P	System	RF2	162	P1	T3	n/a	n/a	25	52	37.8	2.930	1.465	-0.623	Head
20 Sep 2016	XL-200P	SCAN	RF3	162	P1	T4	n/a	n/a	25	52	37.8	0.474	0.237	-1.890	Head
20 Sep 2016	XL-200P	System	RF4	162	P1	T4	n/a	n/a	25	52	37.8	0.551	0.276	-1.100	Head
20 Sep 2016	XL-200P	SCAN	RB1	156.8	P1	T3	B1	A1	0	22	37.8	9.980	4.990	-0.210	Body
20 Sep 2016	XL-200P	System	RB2	156.8	P1	T3	B1	A1	0	22	37.8	9.960	4.830	-0.250	Body
20 Sep 2016	XL-200P	SCAN	RB3	156.8	P1	T4	B1	A1	0	22	37.8	3.670	1.835	-0.381	Body
20 Sep 2016	XL-200P	System	RB4	156.8	P1	T4	B1	A1	0	22	37.8	3.690	1.845	-0.278	Body
SAR LIMIT(S)						Head/Body		Spatial Peak		RF Exposure Category					
FCC 47 CFR 2.1093		Health Canada Safety Code 6				8.0 W/kg		1g average		Occupational					

* 0mm DUT Spacing indicates DUT with its accessory was flush against the phantom.

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8.0 SCALING OF MAXIMUM MEASURE SAR

Table 8.0

Scaling of Maximum Measured SAR

Plot ID	Configuration	Freq	Measured Fluid Deviation		Measured Conducted Power	Measured Drift	Measured SAR (1g)	
		(MHz)	Permittivity	Conductivity	(dBm)	(dB)	(W/kg)	
F2	Head	406	-3.69%	-1.44%	37.2	-0.155	1.88	
B18	Body	156.8	6.37%	-1.24%	38.3	-0.214	5.20	
Step 1								
Fluid Sensitivity Adjustment (1)								
Plot ID	Scale Factor		X	Measured SAR		=	Adjusted SAR (1g)	
	(%)			(W/kg)			(W/kg)	
F2	n/a (5)		X	1.875		=	1.88	
B18	-2.29% (6)		X	5.2		=	5.20	
Step 2								
Manufacturer's Tune-Up Tolerance (2)								
Plot ID	Measured Conducted Power		Rated Power		Delta	+	Adjusted SAR	Reported SAR (1g)
	(dBm)		(dBm)		(dB)		(W/kg)	
F2	37.2		37.0		0.2	+	1.875 (7)	1.88
B18	38.3		37.8		0.5	+	5.200 (7)	5.20
Step 3 (8)								
Simultaneous Transmission (3) - Bluetooth								
Plot ID	Rated Output Power (Pmax)	Freq	Separation Distance	Estimated SAR	+	Reported SAR	=	Simultaneous Reported SAR
	(mW)	(GHz)	(mm)	(W/kg)		(W/kg)		(W/kg)
F2	n/a	n/a	n/a	n/a	+	1.88	=	1.88
B18	n/a	n/a	n/a	n/a	+	5.20	=	5.20
Step 4 (IC/EU/AU)								
Drift Adjustment (4)								
Plot ID	Measured Drift		+	Reported or Simultaneous Reported SAR		=	Scaled SAR (1g)	
	(dB)			(W/kg)			(W/kg)	
F2	-0.155		+	1.88		=	1.95	
B18	-0.214		+	5.20		=	5.46	
Notes								
See Notes Below								

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Notes

- (1) Per IEC-62209-1. Scaling required only when Measured Fluid Deviation is greater than 5% and only when the Scale Factor is (+) Positive.
- (2) Per KDB 447498. Scaling required only when Delta is (-) Negative. The absolute value of Delta is added to Adjusted SAR.
- (3) Per KDB 447498 4.3.2.
- (4) Per IEC 62209-1. Scaling required only when Measured Drift is (-) Negative. The absolute value of Measured Drift is added to Reported or Simultaneous Reported SAR.
- (5) Scaling the SAR for Fluid Sensitivity is not required as fluid deviation is less than 5%.
- (6) Scaling the SAR for Fluid Sensitivity is not required as Scale Factor is Negative (See Table 8.1)
- (7) Scaling the SAR for Tune-Up Tolerance is not required as the units was tested at maximum output power.
- (8) This device is not configured with BlueTooth.

Table 8.1

Fluid Sensitivity Calculation (1g)	
Delta SAR = Ce * Delta Er + C(sigma)*Delta Sigma	
Frequency (GHz)	Plot ID
0.15	B18
Ce	-0.2065
Cσ	0.7855
Δ E	6.37%
Δσ	-1.24%
ΔSAR	-2.29%
Scale Factor Is Negative. Scaling NOT Required	

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9.0 SAR EXPOSURE LIMITS

Table 9.0

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 1 g of tissue)		1.6 W/kg	8.0 W/kg
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)		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 to individuals who have no knowledge or control of their potential exposure.			
Controlled environments are defined as locations where there is potential exposure to individuals who have knowledge of their potential exposure and can exercise control over their exposure.			

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10.0 DETAILS OF SAR EVALUATION

EVALUATION DETAILS

1	The test channels selected for the SAR evaluations were based test procedures FCC KDB 447498 and IEC 62209-1. The procedure yielding the highest channel count was applied.
2	The DUT was evaluated for SAR in accordance with the procedures described in FCC KDB 643646.
3	The Scan radio model differs from the System radio model in front keypad only. The scan radio was evaluated for the worst case configuration of the SAR evaluation.
4	The DUT was evaluated for SAR at the maximum conducted output power level, preset by the manufacturer, in unmodulated continuous transmit operation (Continuous Wave mode at 100% duty cycle) with the transmit key continuously depressed. For a Push-To-Talk (PTT) device, the 50% duty cycle compensation reported assumes a transmit/receive cycle of equal time base.
5	A single point SAR measurement was taken prior to the Area Scan and after the Zoom Scan and the SAR drift of the DUT was evaluated. The measured SAR drift was added to the measured SAR levels of the Maximum reported SAR (IC/EU only).
6	Each SAR evaluations were performed with a fully charged battery.
7	The fluid temperature remained within +/-2°C from the time of the fluid dielectric parameter measurement to the completion of the SAR evaluation.
8	The fluid temperature remained within +/-0.5°C throughout the test day.

SCAN PROCEDURE

Maximum distance from the closest measurement point to phantom surface.	4 ± 1mm
Maximum probe angle normal to phantom surface.	5° ± 1°
Area Scan Spatial Resolution ΔX, ΔY	15mm
Zoom Scan Spatial Resolution ΔX, ΔY	7.5mm
Zoom Scan Spatial Resolution ΔZ	5mm
Zoom Scan Volume X, Y, Z	30mm x 30mm x 30mm
Phantom	Elliptical Planar (ELI)
Fluid Depth	150mm
An Area Scan with an area extending beyond the device was used to locate the candidate maximas within 2dB of the global maxima.	
A Zoom Scan centered over the peak SAR location(s) determined by the Area Scan was used to determine the 1 gram and 10 gram peak spatial-average SAR	

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11.0 MEASUREMENT UNCERTAINTIES

Table 11.0

UNCERTAINTY BUDGET FOR DEVICE EVALUATION (IEEE 1528-2013 Table 9)

Uncertainty Component	IEEE 1528 Section	Uncertainty Value $\pm\%$	Probability Distribution	Divisor	ci 1g	ci 10g	Uncertainty Value $\pm\%$ (1g)	Uncertainty Value $\pm\%$ (10g)	V_i or V_{eff}
Measurement System									
Probe Calibration*	E.2.1	6.6	Normal	1	1	1	6.60	6.60	∞
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	8.3	Rectangular	1.732050808	1	1	4.8	4.8	∞
Linearity*	E.2.4	4.7	Rectangular	1.732050808	1	1	2.7	2.7	∞
System Detection Limits*	E.2.4	1.0	Rectangular	1.732050808	1	1	0.6	0.6	∞
Modulation Response	E.2.5	4.0	Rectangular	1.732050808	1	1	2.3	2.3	∞
Readout Electronics*	E.2.6	1.0	Normal	1	1	1	1.0	1.0	∞
Response Time*	E.2.7	0.8	Rectangular	1.732050808	1	1	0.5	0.5	∞
Integration Time*	E.2.8	1.4	Rectangular	1.732050808	1	1	0.8	0.8	∞
RF Ambient Conditions - Noise	E.6.1	0.0	Rectangular	1.732050808	1	1	0.0	0.0	∞
RF Ambient Conditions - Reflection	E.6.1	0.0	Rectangular	1.732050808	1	1	0.0	0.0	∞
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	3.9	Rectangular	1.732050808	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	0.3	Normal	1	1	1	0.3	0.3	5
Device Holder Uncertainty*	E.4.1	3.6	Normal	1	1	1	3.6	3.6	∞
SAR Drift Measurement**	E.2.9	0.0	Rectangular	1.732050808	1	1	0.0	0.0	∞
SAR Scaling***	E.6.5	2.0	Rectangular	1.732050808	1	1	1.2	1.2	∞
Phantom and Tissue Parameters									
Phantom Uncertainty*	E.3.1	4.0	Rectangular	1.732050808	1	1	2.3	2.3	∞
SAR Correction Uncertainty	E.3.2	1.2	Normal	1	1	0.84	1.2	1.0	∞
Liquid Conductivity (measurement)	E.3.3	6.8	Normal	1	0.78	0.71	5.3	4.8	10
Liquid Permittivity (measurement)	E.3.3	5.3	Normal	1	0.23	0.26	1.2	1.4	10
Liquid Conductivity (Temperature)	E.3.2	0.1	Rectangular	1.732050808	0.78	0.71	0.1	0.0	∞
Liquid Permittivity Temperature)	E.3.2	0.0	Rectangular	1.732050808	0.23	0.26	0.0	0.0	∞
Effective Degrees of Freedom⁽¹⁾								$V_{eff} =$	873.2
Combined Standard Uncertainty			RSS				12.59	12.40	
Expanded Uncertainty (95% Confidence Interval)			k=2				25.18	24.80	

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003

(1) The Effective Degrees of Freedom is > 30 therefore a coverage factor of k=2 represents an approximate confidence level of 95%.

* Provided by SPEAG

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Table 11.1

Calculation of the Degrees and Effective Degrees of Freedom

$v_i = n - 1$	$v_{\text{eff}} = \frac{u_c^4}{m \sum_{i=1} \frac{c_i^4 u_i^4}{v_i}}$
---------------	---

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12.0 TISSUE SIMULATING LIQUID (TSL) RECIPE

Table 12.0	
Simulated Tissue Mixture	
Frequency:	Fluid Type
150 MHz	HEAD
Ingredient	% by Weight
Water	38.35
Sugar	55.5
Salt	5.15
HEC	0.9
Bacteriacide	0.1

Table 12.1	
Simulated Tissue Mixture	
Frequency:	Fluid Type
150MHz	BODY
Ingredient	% by Weight
Water	46.6
Sugar	49.7
Salt	2.6
HEC	1
Bacteriacide	0.1

Table 12.2

Simulated Tissue Mixture	
Frequency:	Fluid Type
450 MHz	HEAD
Ingredient	% by Weight
Water	38.56
Sugar	56.32
Salt	3.95
HEC	0.98
Bacteriacide	0.19

Table 12.3

Simulated Tissue Mixture	
Frequency:	Fluid Type
450 MHz	BODY
Ingredient	% by Weight
Water	52
Sugar	45.65
Salt	1.75
HEC	0.5
Bacteriacide	0.1

Table 12.4

Simulated Tissue Mixture	
Frequency:	Fluid Type
835 MHz	HEAD
Ingredient	% by Weight
Water	40.71
Sugar	56.63
Salt	1.48
HEC	0.99
Bacteriacide	0.01

Table 12.5

Simulated Tissue Mixture	
Frequency:	Fluid Type
835 MHz	BODY
Ingredient	% by Weight
Water	53.79%
Sugar	45.13%
Salt	0.98%
HEC	
Bacteriacide	0.10%

The simulated equivalent tissue recipes in the table below are derived from the SAR system manufacturer's suggested recipes in the DASY4 manual (see references [10] and [11]) in accordance with the procedures and requirements specified in IEEE Standard 1528-2013, IEC 62209-1 and RSS 102. The ingredient percentage may have been adjusted minimally in order to achieve the appropriate target dielectric parameters within the specified tolerance.



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Test Report Issue Date

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Description of Test(s)

Specific Absorption Rate

RF Exposure Category

Occupational (Controlled)



13.0 FLUID DIELECTRIC PARAMETERS

Table 13.0

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	29 Dec 2014	Frequency:		450MHz	Tissue:	Head	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
350.0000	45.02	0.77	44.70	0.87	0.72%	-11.49%	
360.0000	44.21	0.78	44.58	0.87	-0.83%	-10.34%	
370.0000	44.90	0.78	44.46	0.87	0.99%	-10.34%	
378.0000	43.66	0.78	44.36	0.87	-1.59%	-10.34%	X
380.0000	43.35	0.78	44.34	0.87	-2.23%	-10.34%	
390.0000	43.58	0.80	44.22	0.87	-1.45%	-8.05%	
400.0000	43.82	0.79	44.10	0.87	-0.63%	-9.20%	
406.0000	43.56	0.80	44.03	0.87	-1.06%	-8.51%	X
410.0000	43.39	0.80	43.98	0.87	-1.34%	-8.05%	
418.0000	43.49	0.81	43.88	0.87	-0.89%	-7.13%	X
420.0000	43.52	0.81	43.86	0.87	-0.78%	-6.90%	
430.0000	43.00	0.83	43.74	0.87	-1.69%	-4.60%	
440.0000	42.58	0.84	43.62	0.87	-2.38%	-3.45%	
450.0000	42.10	0.82	43.50	0.87	-3.22%	-5.75%	
454.0000	41.93	0.84	43.48	0.87	-3.56%	-3.91%	X
459.0000	41.72	0.86	43.46	0.87	-3.99%	-1.61%	X
460.0000	41.68	0.86	43.45	0.87	-4.07%	-1.15%	
470.0000	42.29	0.85	43.40	0.87	-2.56%	-2.30%	
480.0000	41.91	0.88	43.34	0.87	-3.30%	1.15%	
490.0000	42.11	0.86	43.29	0.87	-2.73%	-1.15%	
500.0000	42.01	0.89	43.24	0.87	-2.84%	2.30%	
510.0000	41.62	0.89	43.19	0.87	-3.64%	2.30%	
520.0000	41.14	0.89	43.14	0.88	-4.64%	1.14%	
522.0000	41.11	0.89	43.13	0.88	-4.67%	1.36%	X
530.0000	41.01	0.90	43.08	0.88	-4.81%	2.27%	
540.0000	41.20	0.91	43.03	0.88	-4.25%	3.41%	
550.0000	40.97	0.90	42.98	0.88	-4.68%	2.27%	

X = Interpolated by DASY 4 System

= Test Channel Used

Table 13.1

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	5 Jan 2015	Frequency:		450MHz	Tissue:	Head	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
390.0000	43.39	0.79	44.22	0.87	-1.88%	-9.20%	
400.0000	43.56	0.79	44.10	0.87	-1.22%	-9.20%	
406.0000	43.49	0.80	44.03	0.87	-1.21%	-8.51%	X
410.0000	43.45	0.80	43.98	0.87	-1.21%	-8.05%	
418.0000	42.74	0.81	43.88	0.87	-2.61%	-7.13%	X
420.0000	42.56	0.81	43.86	0.87	-2.96%	-6.90%	
430.0000	42.38	0.82	43.74	0.87	-3.11%	-5.75%	
440.0000	42.89	0.82	43.62	0.87	-1.67%	-5.75%	
450.0000	42.61	0.85	43.50	0.87	-2.05%	-2.30%	
454.0000	42.63	0.85	43.48	0.87	-1.95%	-2.76%	X
459.0000	42.66	0.84	43.46	0.87	-1.84%	-3.33%	X
460.0000	42.66	0.84	43.45	0.87	-1.82%	-3.45%	
470.0000	42.70	0.86	43.40	0.87	-1.61%	-1.15%	
480.0000	41.81	0.88	43.34	0.87	-3.53%	1.15%	
490.0000	41.39	0.87	43.29	0.87	-4.39%	0.00%	
500.0000	41.53	0.88	43.24	0.87	-3.95%	1.15%	
510.0000	41.33	0.88	43.19	0.87	-4.31%	1.15%	
520.0000	41.29	0.89	43.14	0.88	-4.29%	1.14%	
522.0000	41.14	0.89	43.13	0.88	-4.61%	1.36%	X
530.0000	40.53	0.90	43.08	0.88	-5.92%	2.27%	
540.0000	40.69	0.91	43.03	0.88	-5.44%	3.41%	
550.0000	40.63	0.93	42.98	0.88	-5.47%	5.68%	

X = Interpolated by DASY 4 System

= Test Channel Used

Table 13.2

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	5 Jan 2015	Frequency:		450MHz	Tissue:	Body	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
350.0000	55.58	0.83	57.70	0.93	-3.67%	-10.75%	
360.0000	54.86	0.84	57.60	0.93	-4.76%	-9.68%	
370.0000	54.63	0.85	57.50	0.93	-4.99%	-8.60%	
378.0000	54.88	0.87	57.42	0.93	-4.43%	-6.88%	X
380.0000	54.94	0.87	57.40	0.93	-4.29%	-6.45%	
390.0000	54.52	0.86	57.30	0.93	-4.85%	-7.53%	
400.0000	54.11	0.86	57.20	0.93	-5.40%	-7.53%	
406.0000	53.90	0.87	57.14	0.93	-5.67%	-6.24%	X
410.0000	53.76	0.88	57.10	0.93	-5.85%	-5.38%	
418.0000	53.51	0.89	57.02	0.94	-6.15%	-5.33%	X
420.0000	53.45	0.89	57.00	0.94	-6.23%	-5.32%	
430.0000	53.55	0.89	56.90	0.94	-5.89%	-5.32%	
440.0000	53.97	0.88	56.80	0.94	-4.98%	-6.38%	
450.0000	53.84	0.92	56.70	0.94	-5.04%	-2.13%	
454.0000	53.70	0.92	56.68	0.94	-5.27%	-2.13%	X
459.0000	53.52	0.92	56.66	0.94	-5.56%	-2.13%	X
460.0000	53.48	0.92	56.66	0.94	-5.61%	-2.13%	
470.0000	53.89	0.92	56.62	0.94	-4.82%	-2.13%	
480.0000	53.19	0.94	56.58	0.94	-5.99%	0.00%	
490.0000	53.72	0.95	56.54	0.94	-4.99%	1.06%	
500.0000	53.45	0.96	56.51	0.94	-5.41%	2.13%	
510.0000	52.54	0.96	56.47	0.94	-6.96%	2.13%	
520.0000	52.76	0.97	56.43	0.95	-6.50%	2.11%	
522.0000	52.77	0.97	56.42	0.95	-6.48%	2.11%	X
530.0000	52.80	0.97	56.39	0.95	-6.37%	2.11%	
540.0000	52.79	0.99	56.35	0.95	-6.32%	4.21%	
550.0000	52.19	0.99	56.31	0.95	-7.32%	4.21%	

X = Interpolated by DASY 4 System

= Test Channel Used

Table 13.3

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	8 Jan 2015	Frequency:		835MHz	Tissue:	Head	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
735.0000	41.01	0.79	42.02	0.89	-2.40%	-11.24%	
745.0000	40.65	0.80	41.97	0.89	-3.15%	-10.11%	
755.0000	40.63	0.80	41.92	0.89	-3.08%	-10.11%	
765.0000	40.40	0.81	41.86	0.89	-3.49%	-8.99%	
768.0000	40.23	0.82	41.85	0.89	-3.87%	-8.62%	X
775.0000	39.82	0.83	41.81	0.90	-4.76%	-7.78%	
776.0000	39.84	0.83	41.81	0.90	-4.71%	-7.67%	X
785.0000	39.99	0.84	41.76	0.90	-4.24%	-6.67%	
795.0000	39.87	0.84	41.71	0.90	-4.41%	-6.67%	
805.0000	39.61	0.85	41.66	0.90	-4.92%	-5.56%	
806.0000	39.63	0.85	41.65	0.90	-4.86%	-5.33%	X
815.0000	39.81	0.87	41.60	0.90	-4.30%	-3.33%	
825.0000	39.74	0.88	41.55	0.90	-4.36%	-2.22%	
835.0000	39.27	0.88	41.50	0.90	-5.37%	-2.22%	
845.0000	39.47	0.89	41.50	0.91	-4.89%	-2.20%	
851.0000	39.27	0.91	41.50	0.92	-5.37%	-0.87%	X
855.0000	39.14	0.92	41.50	0.92	-5.69%	0.00%	
856.0000	39.14	0.92	41.50	0.92	-5.69%	-0.22%	X
861.0000	39.13	0.91	41.50	0.93	-5.72%	-1.30%	X
865.0000	39.12	0.91	41.50	0.93	-5.73%	-2.15%	
875.0000	38.95	0.92	41.50	0.94	-6.14%	-2.13%	
885.0000	39.11	0.94	41.50	0.95	-5.76%	-1.05%	
895.0000	38.89	0.93	41.50	0.96	-6.29%	-3.12%	
905.0000	38.70	0.95	41.50	0.97	-6.75%	-2.06%	
915.0000	38.53	0.97	41.50	0.98	-7.16%	-1.02%	
925.0000	38.53	0.97	41.48	0.98	-7.11%	-1.02%	
935.0000	38.16	0.97	41.46	0.99	-7.96%	-2.02%	

X = Interpolated by DASY 4 System

= Test Channel Used

	<u>Date(s) of Evaluation</u> Dec 30/14 Jan 22/15	<u>Test Report Serial No.</u> 121814OWD-1302-S	<u>Test Report Revision No.</u> Rev. 1.2	
	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

Table 13.4

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	10 Jan 2015	Frequency:		150MHz	Tissue:	Head	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
100.0000	54.58	0.72	54.63	0.72	-0.09%	0.00%	
110.0000	55.27	0.76	54.17	0.73	2.03%	4.11%	
120.0000	56.99	0.75	53.70	0.74	6.13%	1.35%	
130.0000	51.29	0.77	53.23	0.75	-3.64%	2.67%	
136.0000	51.25	0.78	52.95	0.75	-3.21%	3.47%	X
138.0000	51.24	0.78	52.86	0.75	-3.06%	3.73%	X
140.0000	51.23	0.78	52.77	0.75	-2.92%	4.00%	
141.0000	51.28	0.78	52.72	0.75	-2.74%	3.73%	X
148.0000	51.63	0.77	52.39	0.76	-1.46%	1.85%	X
150.0000	51.73	0.77	52.30	0.76	-1.09%	1.32%	
156.8000	51.11	0.78	51.98	0.77	-1.67%	2.19%	X
160.0000	50.82	0.79	51.83	0.77	-1.95%	2.60%	
162.0000	50.65	0.79	51.74	0.77	-2.11%	2.60%	X
170.0000	49.96	0.79	51.37	0.77	-2.74%	2.60%	
174.0000	50.23	0.79	51.18	0.77	-1.86%	2.07%	X
180.0000	50.64	0.79	50.90	0.78	-0.51%	1.28%	
190.0000	49.47	0.81	50.43	0.79	-1.90%	2.53%	
200.0000	48.19	0.81	49.97	0.80	-3.56%	1.25%	

X = Interpolated by DASY 4 System

= Test Channel Used

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DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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	Date(s) of Evaluation Dec 30/14 Jan 22/15	Test Report Serial No. 121814OWD-1302-S	Test Report Revision No. Rev. 1.2	
	Test Report Issue Date Sep 21, 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	

Test Lab Certificate No. 2470.01

Table 13.5

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	14 Jan 2015	Frequency:		150MHz	Tissue:	Body	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
100.0000	63.89	0.77	63.13	0.76	1.20%	1.32%	
110.0000	65.45	0.80	62.89	0.77	4.07%	3.90%	
120.0000	68.46	0.79	62.64	0.78	9.29%	1.28%	
130.0000	63.19	0.80	62.39	0.78	1.28%	2.56%	
136.0000	64.37	0.81	62.25	0.79	3.42%	2.54%	X
138.0000	64.77	0.81	62.20	0.79	4.13%	2.54%	X
140.0000	65.16	0.81	62.15	0.79	4.84%	2.53%	
141.0000	65.33	0.81	62.13	0.79	5.16%	2.15%	X
148.0000	66.52	0.79	61.95	0.80	7.38%	-0.50%	X
150.0000	66.86	0.79	61.90	0.80	8.01%	-1.25%	
156.8000	65.66	0.80	61.73	0.81	6.37%	-1.24%	X
160.0000	65.10	0.80	61.65	0.81	5.60%	-1.23%	
162.0000	65.02	0.80	61.60	0.81	5.54%	-1.48%	X
170.0000	64.68	0.80	61.41	0.82	5.32%	-2.44%	
174.0000	64.71	0.81	61.31	0.82	5.55%	-0.98%	X
180.0000	64.76	0.83	61.16	0.82	5.89%	1.22%	
190.0000	63.88	0.83	60.91	0.83	4.88%	0.00%	
200.0000	63.88	0.84	60.67	0.84	5.29%	0.00%	

X = Interpolated by DASY 4 System

= Test Channel Used

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DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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	<u>Date(s) of Evaluation</u> Dec 30/14 Jan 22/15	<u>Test Report Serial No.</u> 121814OWD-1302-S	<u>Test Report Revision No.</u> Rev. 1.2	
	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

Table 13.6

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	15 Jan 2015	Frequency:		150MHz	Tissue:	Body	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
100.0000	67.43	0.81	63.13	0.76	6.81%	6.58%	
110.0000	65.65	0.81	62.89	0.77	4.39%	5.19%	
120.0000	64.85	0.83	62.64	0.78	3.53%	6.41%	
130.0000	62.51	0.80	62.39	0.78	0.19%	2.56%	
136.0000	64.06	0.81	62.25	0.79	2.91%	3.31%	X
138.0000	64.57	0.82	62.20	0.79	3.82%	3.55%	X
140.0000	65.09	0.82	62.15	0.79	4.73%	3.80%	
141.0000	65.14	0.82	62.13	0.79	4.85%	3.92%	X
148.0000	65.46	0.84	61.95	0.80	5.66%	4.76%	X
150.0000	65.55	0.84	61.90	0.80	5.90%	5.00%	
156.8000	63.44	0.84	61.73	0.81	2.76%	4.12%	X
160.0000	62.44	0.84	61.65	0.81	1.28%	3.70%	
162.0000	62.70	0.84	61.60	0.81	1.79%	2.96%	X
170.0000	63.76	0.82	61.41	0.82	3.83%	0.00%	
174.0000	64.06	0.83	61.31	0.82	4.49%	0.98%	X
180.0000	64.51	0.84	61.16	0.82	5.48%	2.44%	
190.0000	64.84	0.86	60.91	0.83	6.45%	3.61%	
200.0000	63.83	0.85	60.67	0.84	5.21%	1.19%	

X = Interpolated by DASY 4 System

= Test Channel Used

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DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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Table 13.7

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	16 Jan 2015	Frequency:		835MHz	Tissue:	Head	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
735.0000	43.63	0.78	42.02	0.89	3.83%	-12.36%	
745.0000	43.53	0.79	41.97	0.89	3.72%	-11.24%	
755.0000	43.63	0.80	41.92	0.89	4.08%	-10.11%	
765.0000	43.45	0.80	41.86	0.89	3.80%	-10.11%	
768.0000	43.34	0.81	41.85	0.89	3.57%	-9.74%	X
775.0000	43.08	0.82	41.81	0.90	3.04%	-8.89%	
776.0000	43.10	0.82	41.81	0.90	3.09%	-8.78%	X
785.0000	43.23	0.83	41.76	0.90	3.52%	-7.78%	
795.0000	42.96	0.85	41.71	0.90	3.00%	-5.56%	
805.0000	42.96	0.85	41.66	0.90	3.12%	-5.56%	
806.0000	42.95	0.85	41.65	0.90	3.12%	-5.44%	X
815.0000	42.89	0.86	41.60	0.90	3.10%	-4.44%	
825.0000	42.57	0.87	41.55	0.90	2.45%	-3.33%	
835.0000	43.00	0.88	41.50	0.90	3.61%	-2.22%	
845.0000	42.88	0.90	41.50	0.91	3.33%	-1.10%	
851.0000	42.68	0.90	41.50	0.92	2.83%	-1.75%	X
855.0000	42.54	0.90	41.50	0.92	2.51%	-2.17%	
856.0000	42.54	0.90	41.50	0.92	2.50%	-2.28%	X
861.0000	42.53	0.90	41.50	0.93	2.48%	-2.81%	X
865.0000	42.52	0.90	41.50	0.93	2.46%	-3.23%	
875.0000	42.53	0.92	41.50	0.94	2.48%	-2.13%	
885.0000	42.23	0.94	41.50	0.95	1.76%	-1.05%	
895.0000	42.18	0.94	41.50	0.96	1.64%	-2.08%	
905.0000	42.17	0.95	41.50	0.97	1.61%	-2.06%	
915.0000	42.00	0.95	41.50	0.98	1.20%	-3.06%	
925.0000	42.33	0.96	41.48	0.98	2.05%	-2.04%	
935.0000	41.96	0.99	41.46	0.99	1.21%	0.00%	

X = Interpolated by DASY 4 System

= Test Channel Used

Table 13.8

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	20 Jan 2015	Frequency:		835MHz	Tissue:	Body	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
735.0000	55.03	0.89	55.59	0.96	-1.01%	-7.29%	
745.0000	55.09	0.89	55.55	0.96	-0.83%	-7.29%	
755.0000	55.07	0.89	55.51	0.96	-0.79%	-7.29%	
765.0000	55.04	0.91	55.47	0.96	-0.78%	-5.21%	
768.0000	54.90	0.92	55.46	0.96	-1.01%	-4.88%	X
775.0000	54.56	0.93	55.43	0.97	-1.57%	-4.12%	
776.0000	54.58	0.93	55.43	0.97	-1.54%	-4.12%	X
785.0000	54.71	0.93	55.39	0.97	-1.23%	-4.12%	
795.0000	54.46	0.95	55.36	0.97	-1.63%	-2.06%	
805.0000	54.35	0.95	55.32	0.97	-1.75%	-2.06%	
806.0000	54.36	0.95	55.32	0.97	-1.73%	-1.86%	X
815.0000	54.44	0.97	55.28	0.97	-1.52%	0.00%	
825.0000	54.16	0.98	55.24	0.97	-1.96%	1.03%	
835.0000	54.16	0.99	55.20	0.97	-1.88%	2.06%	
845.0000	53.94	1.00	55.17	0.98	-2.23%	2.04%	
851.0000	54.11	1.00	55.15	0.99	-1.89%	1.42%	X
855.0000	54.22	1.00	55.14	0.99	-1.67%	1.01%	
856.0000	54.17	1.00	55.14	0.99	-1.76%	1.01%	X
861.0000	53.91	1.01	55.12	1.00	-2.19%	1.00%	X
865.0000	53.71	1.02	55.11	1.01	-2.54%	0.99%	
875.0000	54.00	1.03	55.08	1.02	-1.96%	0.98%	
885.0000	53.67	1.04	55.05	1.03	-2.51%	0.97%	
895.0000	53.69	1.05	55.02	1.04	-2.42%	0.96%	
905.0000	53.57	1.07	55.00	1.05	-2.60%	1.90%	
915.0000	53.62	1.06	55.00	1.06	-2.51%	0.00%	
925.0000	53.44	1.08	54.98	1.06	-2.80%	1.89%	
935.0000	53.25	1.10	54.96	1.07	-3.11%	2.80%	

X = Interpolated by DASY 4 System

= Test Channel Used

Table 13.9

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	21 Jan 2015	Frequency: 450MHz			Tissue:	Body	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
350.0000	56.02	0.86	57.70	0.93	-2.91%	-7.53%	
360.0000	55.60	0.86	57.60	0.93	-3.47%	-7.53%	
370.0000	56.36	0.89	57.50	0.93	-1.98%	-4.30%	
378.0000	56.15	0.87	57.42	0.93	-2.21%	-6.02%	X
380.0000	56.10	0.87	57.40	0.93	-2.26%	-6.45%	
390.0000	55.77	0.88	57.30	0.93	-2.67%	-5.38%	
400.0000	55.93	0.89	57.20	0.93	-2.22%	-4.30%	
406.0000	55.35	0.90	57.14	0.93	-3.13%	-3.66%	X
410.0000	54.97	0.90	57.10	0.93	-3.73%	-3.23%	
418.0000	55.15	0.91	57.02	0.94	-3.29%	-3.20%	X
420.0000	55.19	0.91	57.00	0.94	-3.18%	-3.19%	
430.0000	55.11	0.91	56.90	0.94	-3.15%	-3.19%	
440.0000	54.88	0.91	56.80	0.94	-3.38%	-3.19%	
450.0000	55.54	0.93	56.70	0.94	-2.05%	-1.06%	
454.0000	55.20	0.93	56.68	0.94	-2.62%	-1.06%	X
459.0000	54.78	0.93	56.66	0.94	-3.33%	-1.06%	X
460.0000	54.69	0.93	56.66	0.94	-3.48%	-1.06%	
470.0000	54.59	0.95	56.62	0.94	-3.59%	1.06%	
480.0000	54.00	0.95	56.58	0.94	-4.56%	1.06%	
490.0000	54.25	0.96	56.54	0.94	-4.05%	2.13%	
500.0000	53.89	0.96	56.51	0.94	-4.64%	2.13%	
510.0000	53.74	0.98	56.47	0.94	-4.83%	4.26%	
520.0000	53.78	0.97	56.43	0.95	-4.70%	2.11%	
522.0000	53.87	0.97	56.42	0.95	-4.52%	2.53%	X
530.0000	54.24	0.99	56.39	0.95	-3.81%	4.21%	
540.0000	53.84	0.99	56.35	0.95	-4.45%	4.21%	
550.0000	53.22	1.00	56.31	0.95	-5.49%	5.26%	

X = Interpolated by DASY 4 System

= Test Channel Used

Table 13.10

FLUID DIELECTRIC PARAMETERS							Interpolated
Date:	22 Jan 2015	Frequency:		450MHz	Tissue:	Head	
Freq (MHz)	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity	
350.0000	47.47	0.80	44.70	0.87	6.20%	-8.05%	
360.0000	46.29	0.80	44.58	0.87	3.84%	-8.05%	
370.0000	46.19	0.81	44.46	0.87	3.89%	-6.90%	
378.0000	45.53	0.83	44.36	0.87	2.64%	-5.06%	X
380.0000	45.37	0.83	44.34	0.87	2.32%	-4.60%	
390.0000	45.56	0.84	44.22	0.87	3.03%	-3.45%	
400.0000	45.24	0.83	44.10	0.87	2.59%	-4.60%	
406.0000	45.42	0.84	44.03	0.87	3.16%	-3.22%	X
410.0000	45.54	0.85	43.98	0.87	3.55%	-2.30%	
418.0000	45.78	0.85	43.88	0.87	4.32%	-2.30%	X
420.0000	45.84	0.85	43.86	0.87	4.51%	-2.30%	
430.0000	44.76	0.86	43.74	0.87	2.33%	-1.15%	
440.0000	45.39	0.87	43.62	0.87	4.06%	0.00%	
450.0000	44.55	0.87	43.50	0.87	2.41%	0.00%	
454.0000	44.44	0.88	43.48	0.87	2.21%	1.38%	X
459.0000	44.31	0.90	43.46	0.87	1.96%	3.10%	X
460.0000	44.28	0.90	43.45	0.87	1.91%	3.45%	
470.0000	44.55	0.88	43.40	0.87	2.65%	1.15%	
480.0000	44.19	0.90	43.34	0.87	1.96%	3.45%	
490.0000	44.04	0.92	43.29	0.87	1.73%	5.75%	
500.0000	44.26	0.94	43.24	0.87	2.36%	8.05%	
510.0000	43.47	0.93	43.19	0.87	0.65%	6.90%	
520.0000	43.63	0.93	43.14	0.88	1.14%	5.68%	
522.0000	43.59	0.93	43.13	0.88	1.08%	5.45%	X
530.0000	43.45	0.92	43.08	0.88	0.86%	4.55%	
540.0000	43.03	0.95	43.03	0.88	0.00%	7.95%	
550.0000	43.08	0.96	42.98	0.88	0.23%	9.09%	

X = Interpolated by DASY 4 System

= Test Channel Used

	<u>Date(s) of Evaluation</u> Dec 30/14 Jan 22/15	<u>Test Report Serial No.</u> 121814OWD-1302-S	<u>Test Report Revision No.</u> Rev. 1.2	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Aprel Laboratory
Test Result for UIM Dielectric Parameter
Mon 29/Dec/2014 15:15:38
Freq Frequency(GHz)
FCC_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

Freq	FCC_eHFCC_sH	Test_e	Test_s
0.3500	44.70	0.87	45.02 0.77
0.3600	44.58	0.87	44.21 0.78
0.3700	44.46	0.87	44.90 0.78
0.3800	44.34	0.87	43.35 0.78
0.3900	44.22	0.87	43.58 0.80
0.4000	44.10	0.87	43.82 0.79
0.4100	43.98	0.87	43.39 0.80
0.4200	43.86	0.87	43.52 0.81
0.4300	43.74	0.87	43.00 0.83
0.4400	43.62	0.87	42.58 0.84
0.4500	43.50	0.87	42.10 0.82
0.4600	43.45	0.87	41.68 0.86
0.4700	43.40	0.87	42.29 0.85
0.4800	43.34	0.87	41.91 0.88
0.4900	43.29	0.87	42.11 0.86
0.5000	43.24	0.87	42.01 0.89
0.5100	43.19	0.87	41.62 0.89
0.5200	43.14	0.88	41.14 0.89
0.5300	43.08	0.88	41.01 0.90
0.5400	43.03	0.88	41.20 0.91
0.5500	42.98	0.88	40.97 0.90

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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

Aprel Laboratory

Test Result for UIM Dielectric Parameter

Mon 05/Jan/2015 12:04:01

Freq Frequency(GHz)

FCC_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon

FCC_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma

Test_e Epsilon of UIM

Test_s Sigma of UIM

Freq	FCC_eHFCC	sHFCC	Test_e	Test_s
0.3500	44.70	0.87	44.48	0.76
0.3600	44.58	0.87	44.34	0.76
0.3700	44.46	0.87	43.75	0.76
0.3800	44.34	0.87	44.44	0.78
0.3900	44.22	0.87	43.39	0.79
0.4000	44.10	0.87	43.56	0.79
0.4100	43.98	0.87	43.45	0.80
0.4200	43.86	0.87	42.56	0.81
0.4300	43.74	0.87	42.38	0.82
0.4400	43.62	0.87	42.89	0.82
0.4500	43.50	0.87	42.61	0.85
0.4600	43.45	0.87	42.66	0.84
0.4700	43.40	0.87	42.70	0.86
0.4800	43.34	0.87	41.81	0.88
0.4900	43.29	0.87	41.39	0.87
0.5000	43.24	0.87	41.53	0.88
0.5100	43.19	0.87	41.33	0.88
0.5200	43.14	0.88	41.29	0.89
0.5300	43.08	0.88	40.53	0.90
0.5400	43.03	0.88	40.69	0.91
0.5500	42.98	0.88	40.63	0.93

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Aprel Laboratory
Test Result for UIM Dielectric Parameter
Mon 05/Jan/2015 16:35:19
Freq Frequency(GHz)
FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
FCC_eBFCC Limits for Body Epsilon
FCC_sBFCC Limits for Body Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

Freq	FCC_eB	FCC_sB	Test_e	Test_s
0.3500	57.70	0.93	55.58	0.83
0.3600	57.60	0.93	54.86	0.84
0.3700	57.50	0.93	54.63	0.85
0.3800	57.40	0.93	54.94	0.87
0.3900	57.30	0.93	54.52	0.86
0.4000	57.20	0.93	54.11	0.86
0.4100	57.10	0.93	53.76	0.88
0.4200	57.00	0.94	53.45	0.89
0.4300	56.90	0.94	53.55	0.89
0.4400	56.80	0.94	53.97	0.88
0.4500	56.70	0.94	53.84	0.92
0.4600	56.66	0.94	53.48	0.92
0.4700	56.62	0.94	53.89	0.92
0.4800	56.58	0.94	53.19	0.94
0.4900	56.54	0.94	53.72	0.95
0.5000	56.51	0.94	53.45	0.96
0.5100	56.47	0.94	52.54	0.96
0.5200	56.43	0.95	52.76	0.97
0.5300	56.39	0.95	52.80	0.97
0.5400	56.35	0.95	52.79	0.99
0.5500	56.31	0.95	52.19	0.99

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Aprel Laboratory
Test Result for UIM Dielectric Parameter
Thu 08/Jan/2015 11:22:10
Freq Frequency(GHz)
FCC_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

Freq	FCC_eHFCC_sH	Test_e	Test_s
0.7350	42.02	0.89	41.01 0.79
0.7450	41.97	0.89	40.65 0.80
0.7550	41.92	0.89	40.63 0.80
0.7650	41.86	0.89	40.40 0.81
0.7750	41.81	0.90	39.82 0.83
0.7850	41.76	0.90	39.99 0.84
0.7950	41.71	0.90	39.87 0.84
0.8050	41.66	0.90	39.61 0.85
0.8150	41.60	0.90	39.81 0.87
0.8250	41.55	0.90	39.74 0.88
0.8350	41.50	0.90	39.27 0.88
0.8450	41.50	0.91	39.47 0.89
0.8550	41.50	0.92	39.14 0.92
0.8650	41.50	0.93	39.12 0.91
0.8750	41.50	0.94	38.95 0.92
0.8850	41.50	0.95	39.11 0.94
0.8950	41.50	0.96	38.89 0.93
0.9050	41.50	0.97	38.70 0.95
0.9150	41.50	0.98	38.53 0.97
0.9250	41.48	0.98	38.53 0.97
0.9350	41.46	0.99	38.16 0.97

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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Test Lab Certificate No. 2470.01

Aprel Laboratory
 Test Result for UIM Dielectric Parameter
 Sat 10/Jan/2015 12:15:46
 Freq Frequency(GHz)
 FCC_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon
 FCC_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma
 Test_e Epsilon of UIM
 Test_s Sigma of UIM

Freq	FCC_eHFCC_sH	Test_e	Test_s
0.1000	54.63	0.72	54.58
0.1100	54.17	0.73	55.27
0.1200	53.70	0.74	56.99
0.1300	53.23	0.75	51.29
0.1400	52.77	0.75	51.23
0.1500	52.30	0.76	51.73
0.1600	51.83	0.77	50.82
0.1700	51.37	0.77	49.96
0.1800	50.90	0.78	50.64
0.1900	50.43	0.79	49.47
0.2000	49.97	0.80	48.19

Aprel Laboratory
 Test Result for UIM Dielectric Parameter
 Wed 14/Jan/2015 11:23:46
 Freq Frequency(GHz)
 FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
 FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
 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
0.1000	63.13	0.76	63.89	0.77
0.1100	62.89	0.77	65.45	0.80
0.1200	62.64	0.78	68.46	0.79
0.1300	62.39	0.78	63.19	0.80
0.1400	62.15	0.79	65.16	0.81
0.1500	61.90	0.80	66.86	0.79
0.1600	61.65	0.81	65.10	0.80
0.1700	61.41	0.82	64.68	0.80
0.1800	61.16	0.82	64.76	0.83
0.1900	60.91	0.83	63.88	0.83
0.2000	60.67	0.84	63.88	0.84

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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Aprel Laboratory
Test Result for UIM Dielectric Parameter
Thu 15/Jan/2015 15:36:44
Freq Frequency(GHz)
FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
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
0.1000	63.13	0.76	67.43	0.81
0.1100	62.89	0.77	65.65	0.81
0.1200	62.64	0.78	64.85	0.83
0.1300	62.39	0.78	62.51	0.80
0.1400	62.15	0.79	65.09	0.82
0.1500	61.90	0.80	65.55	0.84
0.1600	61.65	0.81	62.44	0.84
0.1700	61.41	0.82	63.76	0.82
0.1800	61.16	0.82	64.51	0.84
0.1900	60.91	0.83	64.84	0.86
0.2000	60.67	0.84	63.83	0.85

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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Aprel Laboratory
Test Result for UIM Dielectric Parameter
Fri 16/Jan/2015 16:46:03
Freq Frequency(GHz)
FCC_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

Freq	FCC_eHFCC_sH	Test_e	Test_s
0.7350	42.02	0.89	43.63
0.7450	41.97	0.89	43.53
0.7550	41.92	0.89	43.63
0.7650	41.86	0.89	43.45
0.7750	41.81	0.90	43.08
0.7850	41.76	0.90	43.23
0.7950	41.71	0.90	42.96
0.8050	41.66	0.90	42.96
0.8150	41.60	0.90	42.89
0.8250	41.55	0.90	42.57
0.8350	41.50	0.90	43.00
0.8450	41.50	0.91	42.88
0.8550	41.50	0.92	42.54
0.8650	41.50	0.93	42.52
0.8750	41.50	0.94	42.53
0.8850	41.50	0.95	42.23
0.8950	41.50	0.96	42.18
0.9050	41.50	0.97	42.17
0.9150	41.50	0.98	42.00
0.9250	41.48	0.98	42.33
0.9350	41.46	0.99	41.96

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Test Lab Certificate No. 2470.01

Aprel Laboratory
 Test Result for UIM Dielectric Parameter
 Tue 20/Jan/2015 18:41:22
 Freq Frequency(GHz)
 FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
 FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
 FCC_eBFCC Limits for Body Epsilon
 FCC_sBFCC 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	55.03	0.89
0.7450	55.55	0.96	55.09	0.89
0.7550	55.51	0.96	55.07	0.89
0.7650	55.47	0.96	55.04	0.91
0.7750	55.43	0.97	54.56	0.93
0.7850	55.39	0.97	54.71	0.93
0.7950	55.36	0.97	54.46	0.95
0.8050	55.32	0.97	54.35	0.95
0.8150	55.28	0.97	54.44	0.97
0.8250	55.24	0.97	54.16	0.98
0.8350	55.20	0.97	54.16	0.99
0.8450	55.17	0.98	53.94	1.00
0.8550	55.14	0.99	54.22	1.00
0.8650	55.11	1.01	53.71	1.02
0.8750	55.08	1.02	54.00	1.03
0.8850	55.05	1.03	53.67	1.04
0.8950	55.02	1.04	53.69	1.05
0.9050	55.00	1.05	53.57	1.07
0.9150	55.00	1.06	53.62	1.06
0.9250	54.98	1.06	53.44	1.08
0.9350	54.96	1.07	53.25	1.10

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Test Lab Certificate No. 2470.01

Aprel Laboratory
 Test Result for UIM Dielectric Parameter
 Tue 02/Dec/2014 11:16:04
 Freq Frequency(GHz)
 FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
 FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
 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	54.06	0.90
0.7450	55.55	0.96	54.30	0.91
0.7550	55.51	0.96	53.80	0.92
0.7650	55.47	0.96	53.92	0.92
0.7750	55.43	0.97	53.73	0.93
0.7850	55.39	0.97	54.02	0.94
0.7950	55.36	0.97	53.53	0.94
0.8050	55.32	0.97	53.31	0.96
0.8150	55.28	0.97	53.41	0.98
0.8250	55.24	0.97	53.29	0.98
0.8350	55.20	0.97	53.21	1.01
0.8450	55.17	0.98	52.87	1.02
0.8550	55.14	0.99	52.78	1.01
0.8650	55.11	1.01	52.61	1.02
0.8750	55.08	1.02	52.75	1.04
0.8850	55.05	1.03	52.88	1.04
0.8950	55.02	1.04	52.94	1.08
0.9050	55.00	1.05	52.63	1.06
0.9150	55.00	1.06	52.57	1.09
0.9250	54.98	1.06	52.33	1.10
0.9350	54.96	1.07	52.25	1.10

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Aprel Laboratory
 Test Result for UIM Dielectric Parameter
 Wed 21/Jan/2015 20:41:13
 Freq Frequency(GHz)
 FCC_eHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Epsilon
 FCC_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma
 FCC_eBFCC Limits for Body Epsilon
 FCC_sBFCC Limits for Body Sigma
 Test_e Epsilon of UIM
 Test_s Sigma of UIM

Freq	FCC_eB	FCC_sB	Test_e	Test_s
0.3500	57.70	0.93	56.02	0.86
0.3600	57.60	0.93	55.60	0.86
0.3700	57.50	0.93	56.36	0.89
0.3800	57.40	0.93	56.10	0.87
0.3900	57.30	0.93	55.77	0.88
0.4000	57.20	0.93	55.93	0.89
0.4100	57.10	0.93	54.97	0.90
0.4200	57.00	0.94	55.19	0.91
0.4300	56.90	0.94	55.11	0.91
0.4400	56.80	0.94	54.88	0.91
0.4500	56.70	0.94	55.54	0.93
0.4600	56.66	0.94	54.69	0.93
0.4700	56.62	0.94	54.59	0.95
0.4800	56.58	0.94	54.00	0.95
0.4900	56.54	0.94	54.25	0.96
0.5000	56.51	0.94	53.89	0.96
0.5100	56.47	0.94	53.74	0.98
0.5200	56.43	0.95	53.78	0.97
0.5300	56.39	0.95	54.24	0.99
0.5400	56.35	0.95	53.84	0.99
0.5500	56.31	0.95	53.22	1.00

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Aprel Laboratory
Test Result for UIM Dielectric Parameter
Thu 22/Jan/2015 20:02:11
Freq Frequency(GHz)
FCC_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon
FCC_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma
Test_e Epsilon of UIM
Test_s Sigma of UIM

Freq	FCC_eHFCC	sHFCC	Test_e	Test_s
0.3500	44.70	0.87	47.47	0.80
0.3600	44.58	0.87	46.29	0.80
0.3700	44.46	0.87	46.19	0.81
0.3800	44.34	0.87	45.37	0.83
0.3900	44.22	0.87	45.56	0.84
0.4000	44.10	0.87	45.24	0.83
0.4100	43.98	0.87	45.54	0.85
0.4200	43.86	0.87	45.84	0.85
0.4300	43.74	0.87	44.76	0.86
0.4400	43.62	0.87	45.39	0.87
0.4500	43.50	0.87	44.55	0.87
0.4600	43.45	0.87	44.28	0.90
0.4700	43.40	0.87	44.55	0.88
0.4800	43.34	0.87	44.19	0.90
0.4900	43.29	0.87	44.04	0.92
0.5000	43.24	0.87	44.26	0.94
0.5100	43.19	0.87	43.47	0.93
0.5200	43.14	0.88	43.63	0.93
0.5300	43.08	0.88	43.45	0.92
0.5400	43.03	0.88	43.03	0.95
0.5500	42.98	0.88	43.08	0.96

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Test Lab Certificate No. 2470.01

14.0 SYSTEM VERIFICATION TEST RESULTS

Table 14.0

System Verification Test Results											
Date		Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source		
									P/N		S/N
29 Dec 2014		450	Head	21.6	25	12%	398	15	D450V3		1068
SAR						Fluid Parameters					
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
1.88	1.87	0.53%	1.27	1.25	1.60%	42.10	43.50	-3.22%	0.82	0.87	-5.75%

Table 14.1

System Verification Test Results											
Date		Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source		
									P/N		S/N
5 Jan 2015		450	Head	21.7	24	10%	398	15	D450V3		1068
SAR						Fluid Parameters					
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
1.83	1.87	-2.14%	1.24	1.25	-0.80%	42.61	43.50	-2.05%	0.85	0.87	-2.30%

Table 14.2

System Verification Test Results											
Date	Frequency	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source			
								P/N		S/N	
	5 Jan 2015	450	Body	24.7	24	10%	398	15	D450V3		1068
SAR						Fluid Parameters					
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
1.96	1.81	8.29%	1.33	1.21	9.92%	53.84	56.70	-5.04%	0.92	0.94	-2.13%

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Table 14.3

System Verification Test Results											
Date			Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source	
										P/N	S/N
8 Jan 2015			835	Head	23.3	25	13%	250	15	D835V2	4d075
SAR						Fluid Parameters					
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
2.55	2.36	8.05%	1.65	1.55	6.45%	39.27	41.50	-5.37%	0.88	0.90	-2.22%

Table 14.4

System Verification Test Results											
Date		Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source		
									P/N		S/N
10 Jan 2015		150	Head	22.2	21	13%	1000	0	CLA-150		4007
SAR						Fluid Parameters					
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
3.52	3.86	-8.81%	2.32	2.55	-9.02%	51.73	52.30	-1.09%	0.77	0.76	1.32%

Table 14.5

System Verification Test Results											
Date	Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source			
								P/N		S/N	
14 Jan 2015	150	Body	22.4	25	13%	1000	0	CLA-150		4007	
SAR					Fluid Parameters						
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
4.15	3.90	6.41%	2.76	2.60	6.15%	66.86	61.90	8.01%	0.79	0.80	-1.25%

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Table 14.6

System Verification Test Results											
Date			Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source	
										P/N	S/N
15 Jan 2015			150	Body	24.4	24	13%	1000	0	CLA-150	4007
SAR						Fluid Parameters					
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
4.24	3.90	8.72%	2.81	2.60	8.08%	65.55	61.90	5.90%	0.84	0.80	5.00%

Table 14.7

System Verification Test Results											
Date			Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source	
										P/N	S/N
16 Jan 2015			835	Head	23.9	27	12%	250	15	D835V2	4d075
SAR							Fluid Parameters				
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
2.42	2.36	2.54%	1.57	1.55	1.29%	43.00	41.50	3.61%	0.88	0.90	-2.22%

Table 14.8

System Verification Test Results											
Date	Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source			
								P/N		S/N	
20 Jan 2015	835	Body	24.4	27	12%	250	15	D835V2		4d075	
SAR					Fluid Parameters						
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
2.53	2.47	2.43%	1.64	1.62	1.23%	54.16	55.20	-1.88%	0.99	0.97	2.06%

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Table 14.9

System Verification Test Results											
Date			Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source	
										P/N	S/N
22 Jan 2015			450	Body	24.4	27	12%	398	15	D450V3	1068
SAR						Fluid Parameters					
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
1.97	1.81	8.84%	1.33	1.21	9.92%	55.54	56.70	-2.05%	0.93	0.94	-1.06%

Table 14.10

System Verification Test Results											
Date		Frequency (MHz)	Fluid Type	Fluid Temp °C	Ambient Temp °C	Ambient Humidity (%)	Forward Power (mW)	Dipole Spacing (mm)	Validation Source		
									P/N		S/N
22 Jan 2015		450	Head	24.1	27	12%	398	15	D450V3		1068
SAR						Fluid Parameters					
1 gram			10 gram			Permittivity			Conductivity		
Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation	Measured	Target	Deviation
1.80	1.87	-3.74%	1.19	1.25	-4.80%	44.55	43.50	2.41%	0.87	0.87	0.00%

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15.0 MEASUREMENT SYSTEM SPECIFICATIONS

Table 15.0

Measurement System Specification	
<u>Specifications</u>	
Positioner	Stäubli Unimation Corp. Robot Model: RX60L
Repeatability	0.02 mm
No. of axis	6
<u>Data Acquisition Electronic (DAE) System</u>	
<u>Cell Controller</u>	
Processor	AMD Athlon XP 2400+
Clock Speed	2.0 GHz
Operating System	Windows XP Professional
<u>Data Converter</u>	
Features	Signal Amplifier, multiplexer, A/D converter, and control logic
Software	Measurement Software: DASY4, V4.7 Build 80
	Postprocessing Software: SEMCAD, V1.8 Build 186
Connecting Lines	Optical downlink for data and status info., Optical uplink for commands and clock
<u>DASY4 Measurement Server</u>	
Function	Real-time data evaluation for field measurements and surface detection
Hardware	PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM
Connections	COM1, COM2, DAE, Robot, Ethernet, Service Interface
<u>E-Field Probe</u>	
Model	EX3DV4
Serial No.	3600
Construction	Triangular core fiber optic detection system
Frequency	10 MHz to 6 GHz
Linearity	$\pm 3\text{ dB}$ or $\pm 0.3\text{ dB}$ (B & 2.0)
<u>Phantom</u>	
Type	ELI Elliptical Planar Phantom
Shell Material	Fiberglass
Thickness	2mm +/- .2mm
Volume	> 30 Liter

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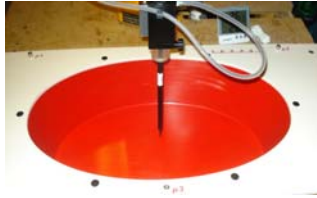
Table 15.1

Measurement System Specification (Continued)

Probe Specification

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 head simulating tissue at frequencies of 900 MHz and 1.8 GHz (accuracy $\pm 8\%$)	
Frequency:	10 MHz to > 6 GHz; Linearity: ± 0.2 dB (30 MHz to 3 GHz)	
Directivity:	± 0.2 dB in head tissue (rotation around probe axis) ± 0.4 dB in head tissue (rotation normal to probe axis)	
Dynamic Range:	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB	
Surface Detect:	± 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	EX3DV4 E-Field Probe

Phantom Specification

The ELI V5.0 phantom is an elliptical planar fiberglass shell phantom with a shell thickness of 2.0mm +/- .2mm at the planar area. This phantom conforms to OET Bulletin 65, Supplement C, IEEE 1528-2013, IEC 62209-1 and IEC 62209-2.	
	ELI Elliptical Planar Phantom

Device Positioner Specification

The DASY4 device positioner 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 pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections.	
	Device Positioner

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16.0 TEST EQUIPMENT LIST

Table 16.0

Test Equipment List				
DESCRIPTION	ASSET NO.	SERIAL NO.	DATE CALIBRATED	CALIBRATION INTERVAL
Schmid & Partner DASY4 System	-	-	-	-
-DASY4 Measurement Server	00158	1078	CNR	CNR
-Robot	00046	599396-01	CNR	CNR
-DAE4	00019	353	9 April 2014	Biennial
-EX3DV6 E-Field Probe	00017	3600	15 April 2014	Annual
-D450V3 Validation Dipole	00221	1068	27 April 2014	Triennial
ELI Elliptical Planar Phantom	00247	-	CNR	CNR
HP 85070C Dielectric Probe Kit	00033	none	CNR	CNR
Gigatronics 8652A Power Meter	00110	1835801	17 March 2014	Biennial
Gigatronics 80701A Power Sensor	00249	1834473	17 March 2014	Biennial
Gigatronics 80701A Power Sensor	00248	1833687	17 March 2014	Biennial
HP 8753ET Network Analyzer	00134	US39170292	22 Oct 2014	Biennial
Rohde & Schwarz SMR20 Signal Generator	00006	100104	8 May 2014	Biennial
Amplifier Research 5S1G4 Power Amplifier	00106	26235	CNR	CNR

CNR = Calibration Not Required

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APPENDIX A - SAR MEASUREMENT PLOTS

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Plot F1

Date/Time: 30/12/2014 10:00:32 AM

450 Head 30 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 30 Dec 2014 Ambient Temp: 24C; Fluid Temp: 22.4C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 378 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used (interpolated): $f = 378 \text{ MHz}$; $\sigma = 0.78 \text{ mho/m}$; $\epsilon_r = 43.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F1 Face XL-200, 378MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.87 mW/g

F1 Face XL-200, 378MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

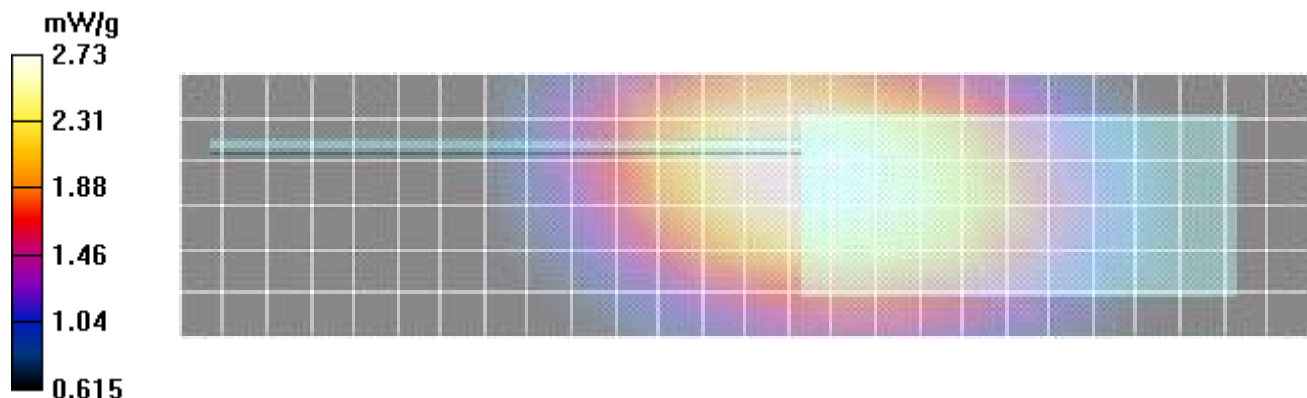
Reference Value = 61.6 V/m; Power Drift = -0.705 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.61 mW/g; SAR(10 g) = 2.04 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.73 mW/g



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Plot F2

Date/Time: 30/12/2014 11:06:06 AM

450 Head 30 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 30 Dec 2014 Ambient Temp: 24C; Fluid Temp: 22.4C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 406 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used (interpolated): $f = 406 \text{ MHz}$; $\sigma = 0.796 \text{ mho/m}$; $\epsilon_r = 43.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F2 Face XL-200, 406MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.92 mW/g

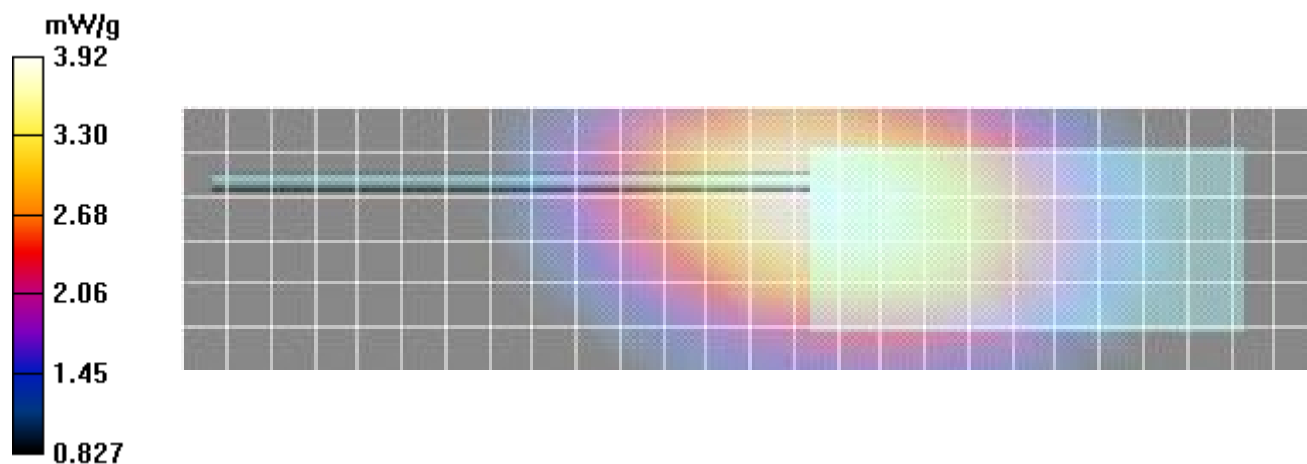
F2 Face XL-200, 406MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 69.2 V/m; Power Drift = -0.155 dB

Peak SAR (extrapolated) = 4.70 W/kg

SAR(1 g) = 3.75 mW/g; SAR(10 g) = 2.9 mW/g

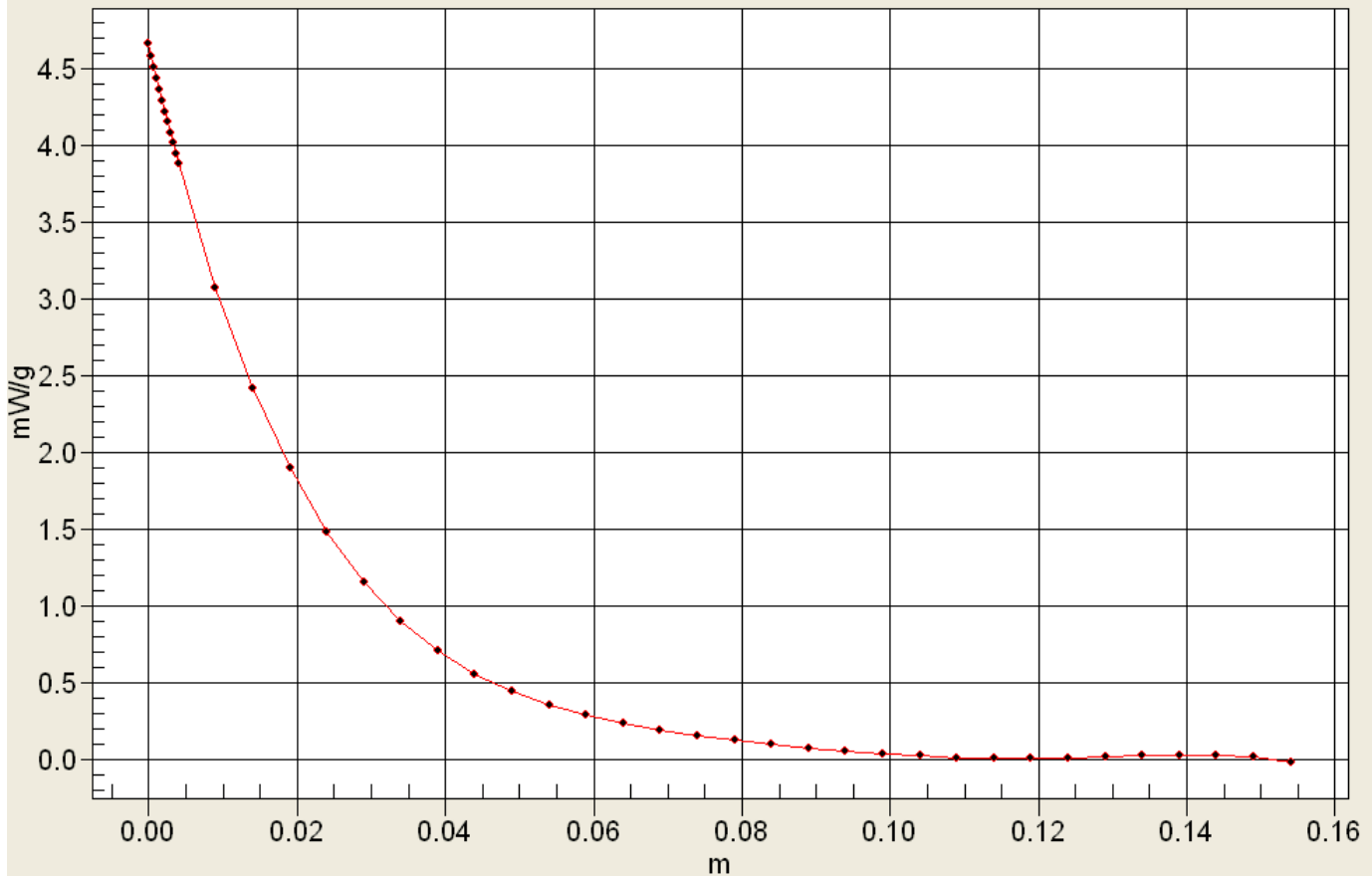
[Info: Interpolated medium parameters used for SAR evaluation.](#)



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Interpolated SAR(x,y,z,f0)

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



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Plot F3

Date/Time: 30/12/2014 11:34:51 AM

450 Head 30 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 30 Dec 2014 Ambient Temp: 24C; Fluid Temp: 22.4C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 418 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used (interpolated): $f = 418 \text{ MHz}$; $\sigma = 0.808 \text{ mho/m}$; $\epsilon_r = 43.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F3 Face XL-200, 418MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.78 mW/g

F3 Face XL-200, 418MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

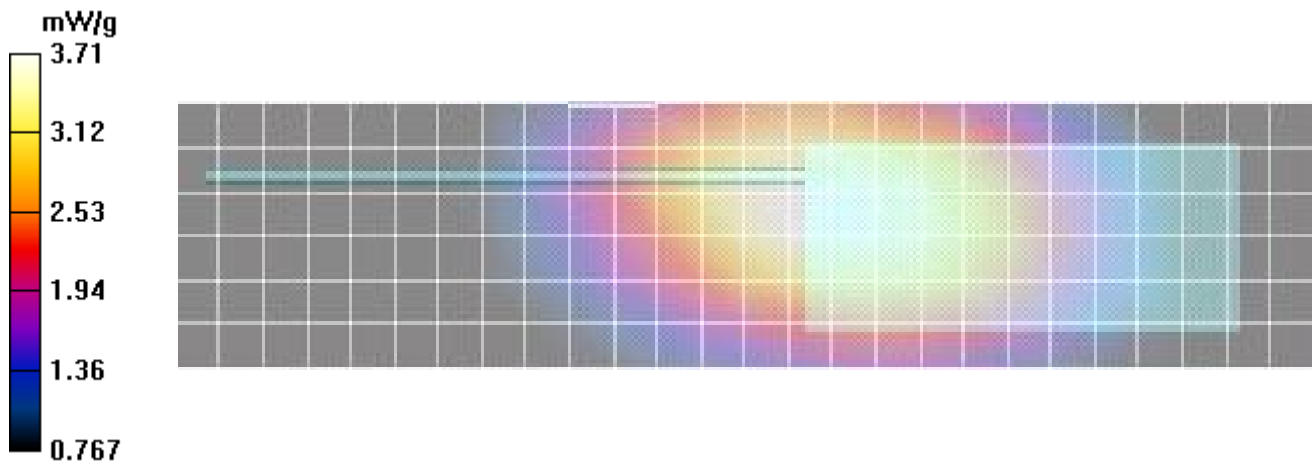
Reference Value = 69.0 V/m; Power Drift = -0.419 dB

Peak SAR (extrapolated) = 4.45 W/kg

SAR(1 g) = 3.55 mW/g; SAR(10 g) = 2.74 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.71 mW/g



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Plot F4

Date/Time: 30/12/2014 12:03:34 PM

450 Head 30 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 30 Dec 2014 Ambient Temp: 24C; Fluid Temp: 22.4C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used: $f = 430 \text{ MHz}$; $\sigma = 0.83 \text{ mho/m}$; $\epsilon_r = 43$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F4 Face XL-200, 430MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.52 mW/g

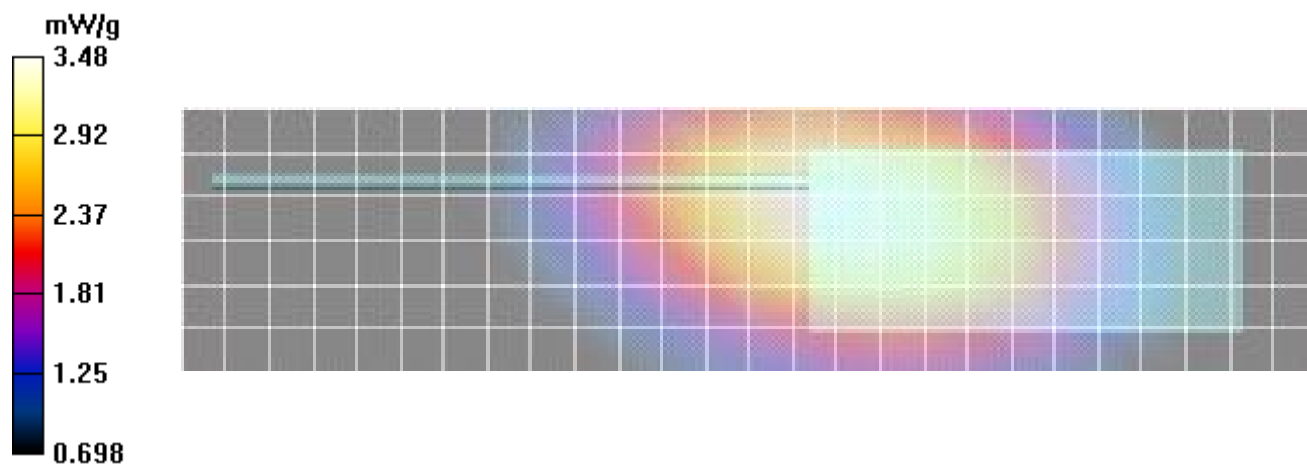
F4 Face XL-200, 430MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 65.3 V/m; Power Drift = -0.404 dB

Peak SAR (extrapolated) = 4.18 W/kg

SAR(1 g) = 3.33 mW/g; SAR(10 g) = 2.57 mW/g

Maximum value of SAR (measured) = 3.48 mW/g



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Plot F5

Date/Time: 30/12/2014 12:26:55 PM

450 Head 30 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 30 Dec 2014 Ambient Temp: 24C; Fluid Temp: 22.4C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.82 \text{ mho/m}$; $\epsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F5 Face XL-200, 450MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.95 mW/g

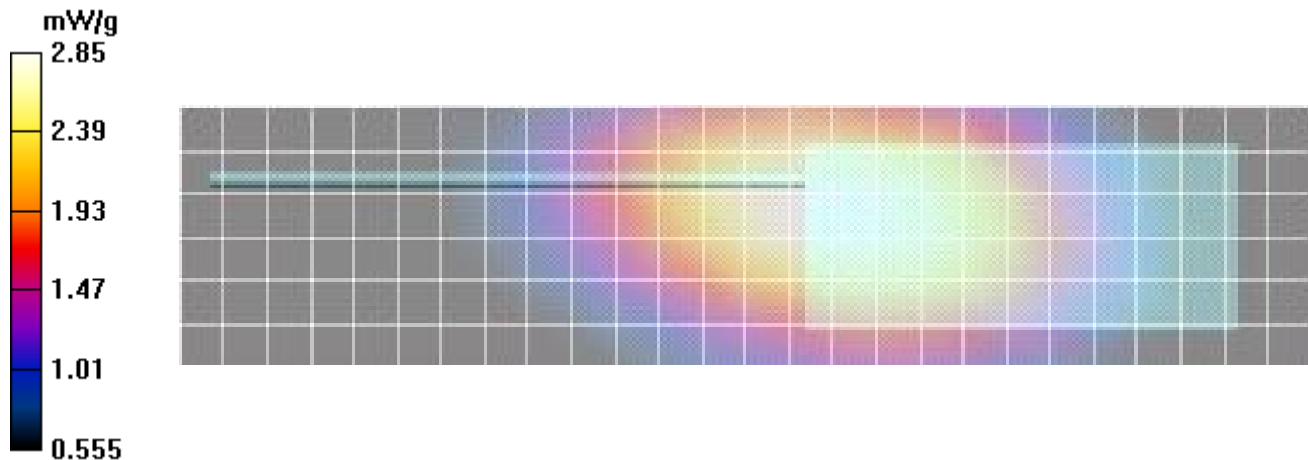
F5 Face XL-200, 450MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 61.7 V/m; Power Drift = -0.756 dB

Peak SAR (extrapolated) = 3.44 W/kg

SAR(1 g) = 2.73 mW/g; SAR(10 g) = 2.09 mW/g

Maximum value of SAR (measured) = 2.85 mW/g



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Plot F6

Date/Time: 30/12/2014 12:56:35 PM

450 Head 30 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 30 Dec 2014 Ambient Temp: 24C; Fluid Temp: 22.4C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 454 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used (interpolated): $f = 454 \text{ MHz}$; $\sigma = 0.836 \text{ mho/m}$; $\epsilon_r = 41.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F6 Face XL-200, 454MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.85 mW/g

F6 Face XL-200, 454MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

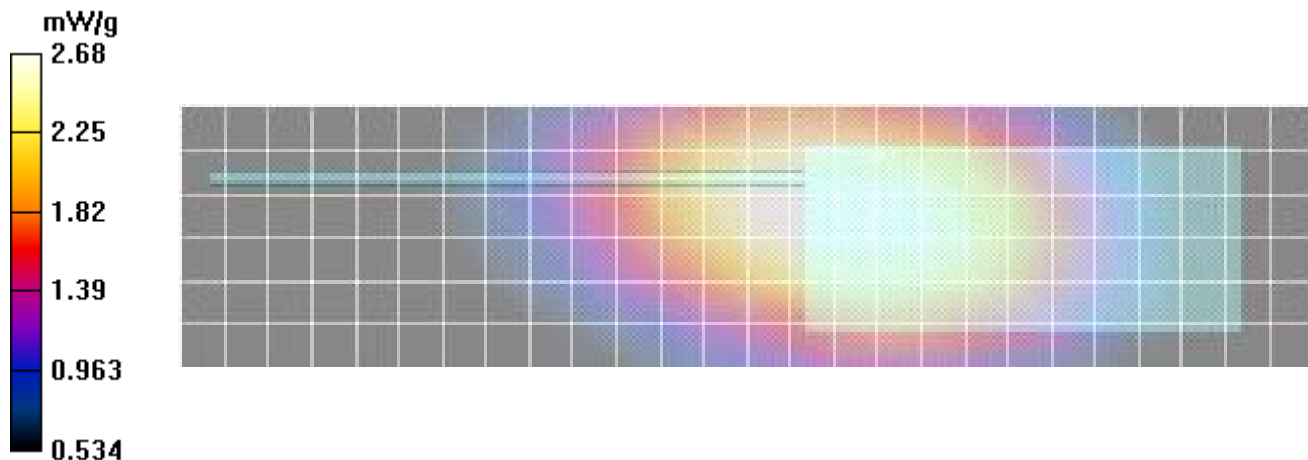
Reference Value = 61.0 V/m; Power Drift = -1.00 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 2.57 mW/g; SAR(10 g) = 1.97 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.68 mW/g



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Plot F7

Date/Time: 30/12/2014 2:06:16 PM

450 Head 30 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 30 Dec 2014 Ambient Temp: 24C; Fluid Temp: 22.4C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 459.025 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used: $f = 460 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 41.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F7 Face XL-200, 459.025MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.51 mW/g

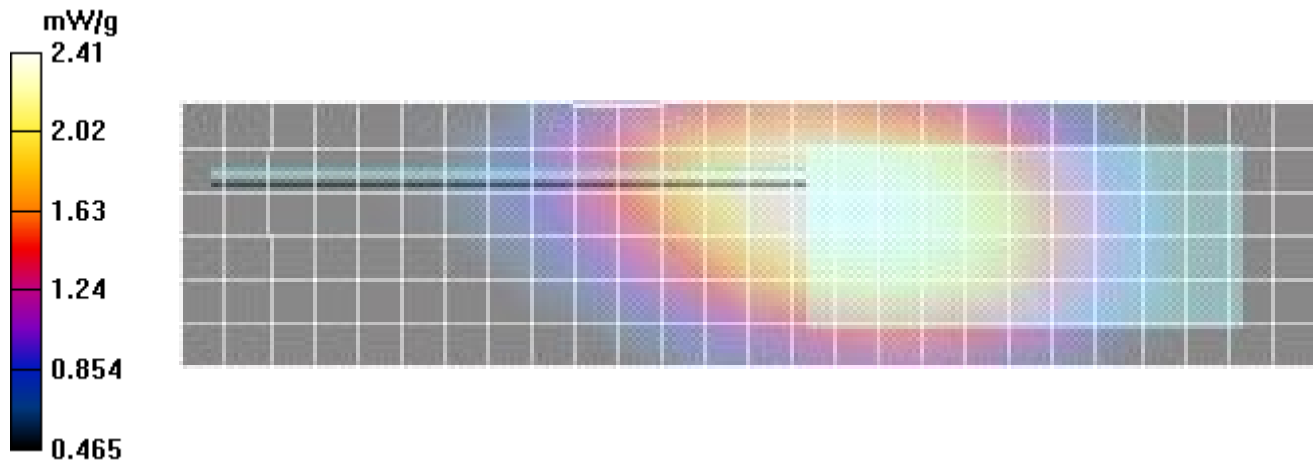
F7 Face XL-200, 459.025MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.5 V/m; Power Drift = -0.861 dB

Peak SAR (extrapolated) = 2.90 W/kg

SAR(1 g) = 2.29 mW/g; SAR(10 g) = 1.75 mW/g

Maximum value of SAR (measured) = 2.41 mW/g



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Plot F8

Date/Time: 31/12/2014 8:47:23 AM

450 Head 31 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 31 Dec 2014 Ambient Temp: 25C; Fluid Temp: 23.1C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.85 \text{ mho/m}$; $\epsilon_r = 42.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F8 Face XL-200, 470MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.65 mW/g

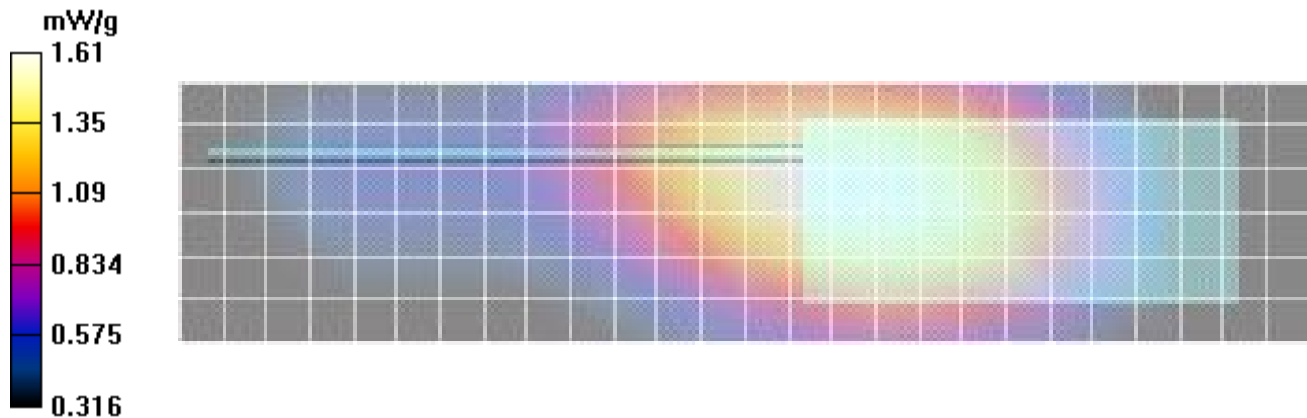
F8 Face XL-200, 470MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 45.4 V/m; Power Drift = -0.713 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.53 mW/g; SAR(10 g) = 1.18 mW/g

Maximum value of SAR (measured) = 1.61 mW/g



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Plot F9

Date/Time: 31/12/2014 12:50:36 PM

450 Head 31 Dec 2014

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 31 Dec 2014 Ambient Temp: 25C; Fluid Temp: 23.1C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 522 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used (interpolated): $f = 522 \text{ MHz}$; $\sigma = 0.892 \text{ mho/m}$; $\epsilon_r = 41.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F9 Face XL-200, 522MHz 4000-1 SYS 2/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.57 mW/g

F9 Face XL-200, 522MHz 4000-1 SYS 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

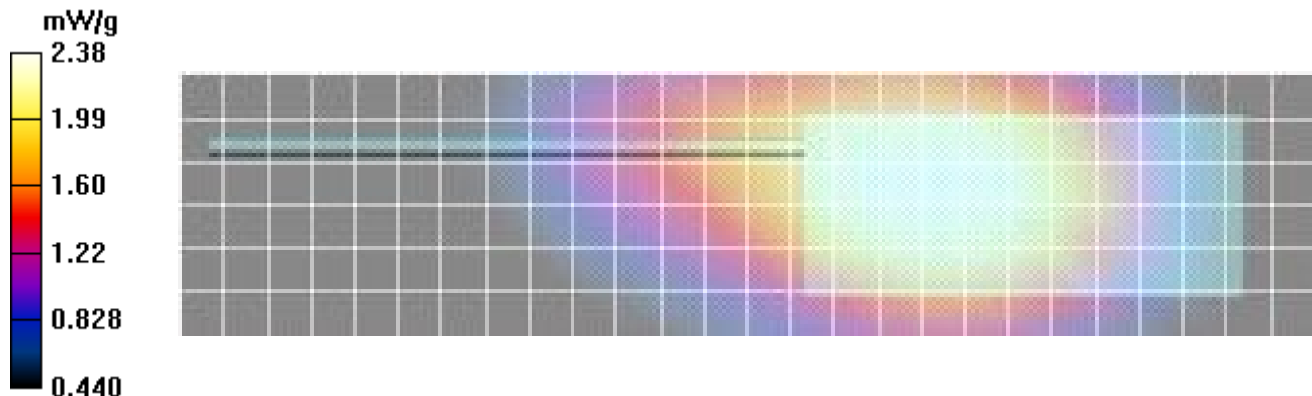
Reference Value = 51.0 V/m; Power Drift = -1.09 dB

Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 2.27 mW/g; SAR(10 g) = 1.72 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.38 mW/g

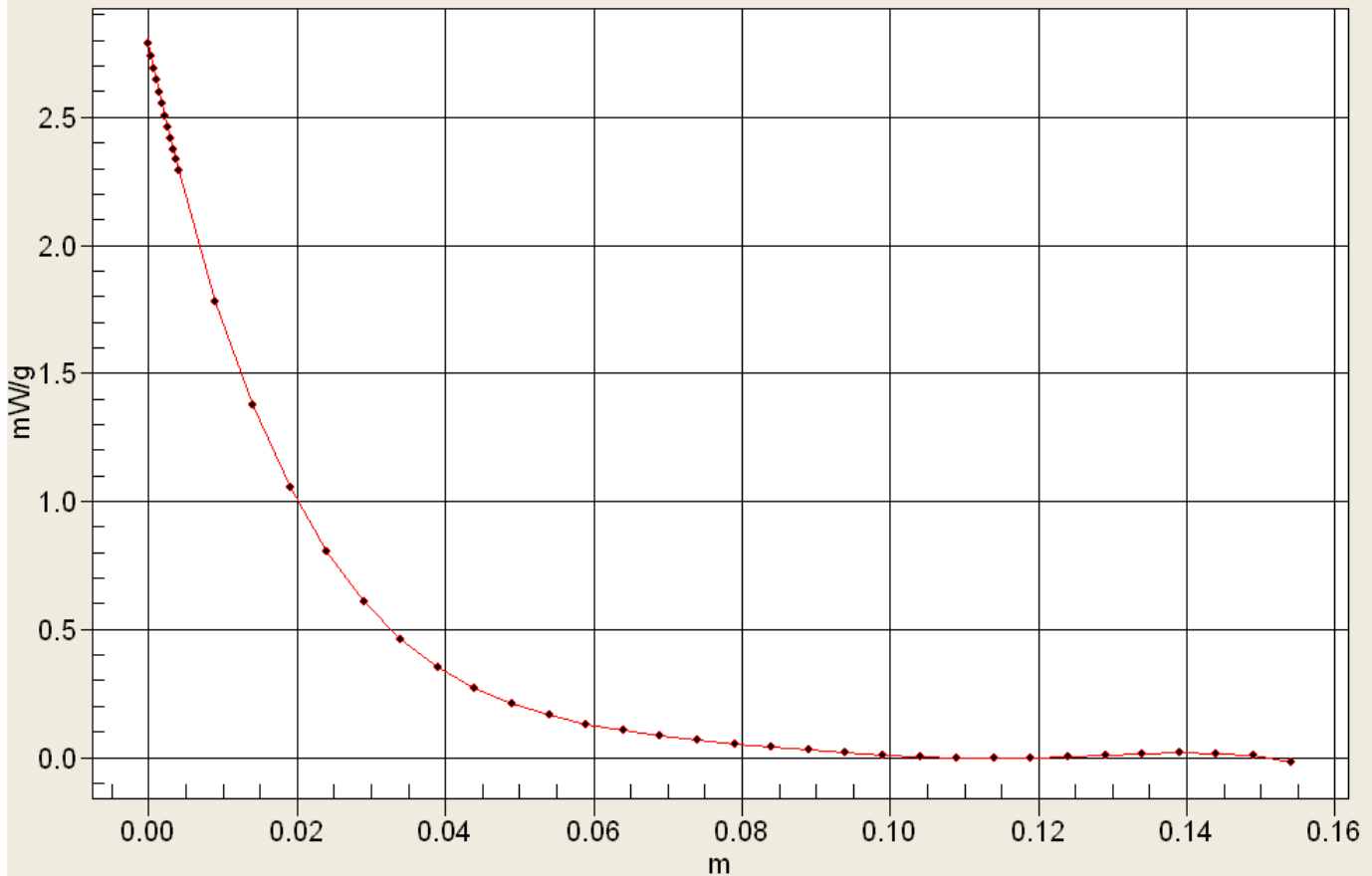


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Interpolated SAR(x,y,z,f0)

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



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Plot F10

Date/Time: 31/12/2014 2:39:56 PM

450 Head 2 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 2 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.9C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 406 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used (interpolated): $f = 406 \text{ MHz}$; $\sigma = 0.796 \text{ mho/m}$; $\epsilon_r = 43.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F10 Face XL-200, 406MHz 4000-1 SCAN/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.80 mW/g

F10 Face XL-200, 406MHz 4000-1 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

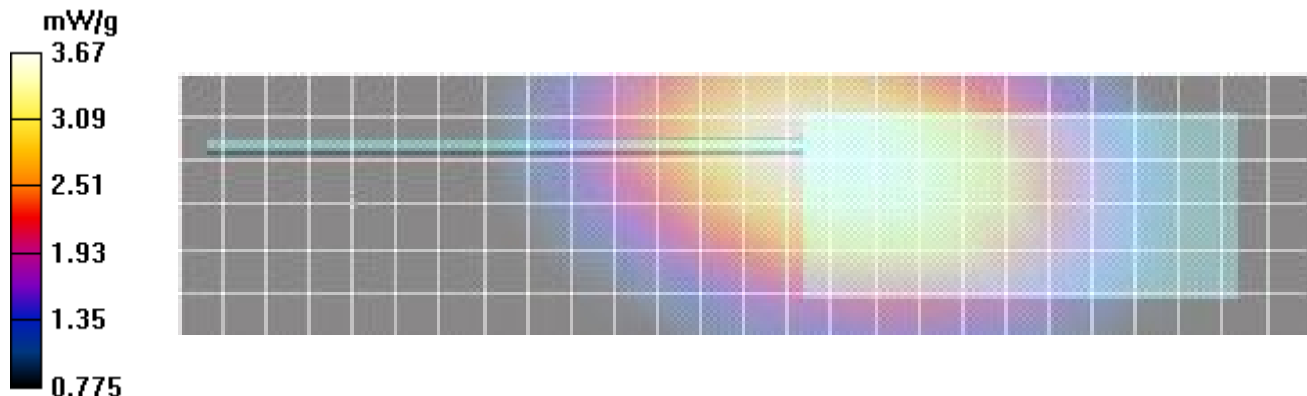
Reference Value = 65.4 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 4.44 W/kg

SAR(1 g) = 3.53 mW/g; SAR(10 g) = 2.73 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.67 mW/g



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Plot B1

Date/Time: 06/01/2015 9:01:48 AM

450 Body 6 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 6 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 378 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 378 \text{ MHz}$; $\sigma = 0.866 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B1 Body XL-200, 378MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.72 mW/g

B1 Body XL-200, 378MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

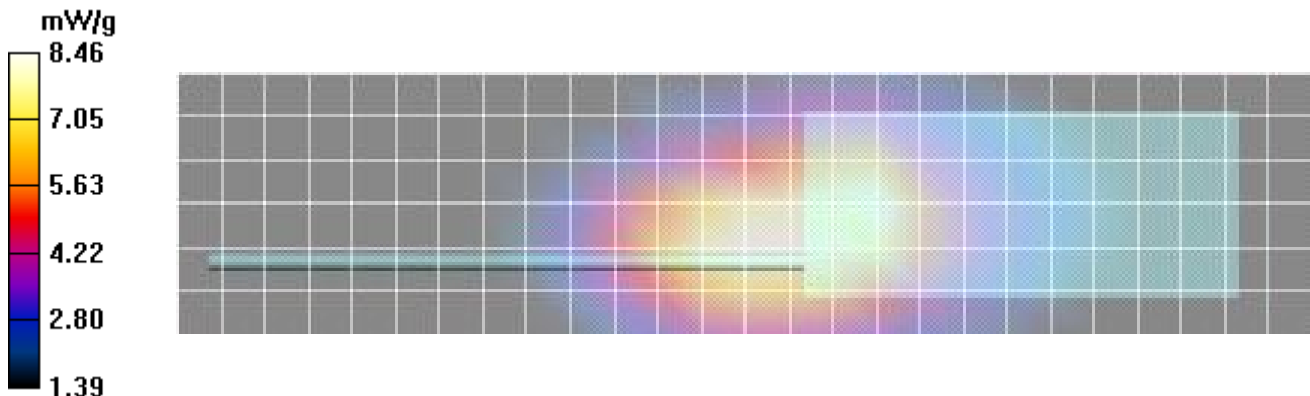
Reference Value = 93.9 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 8.04 mW/g; SAR(10 g) = 5.95 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.46 mW/g



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Plot B2

Date/Time: 06/01/2015 9:44:22 AM

450 Body 6 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 6 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 406 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 406 \text{ MHz}$; $\sigma = 0.872 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B2 Body XL-200, 406MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 10.1 mW/g

B2 Body XL-200, 406MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

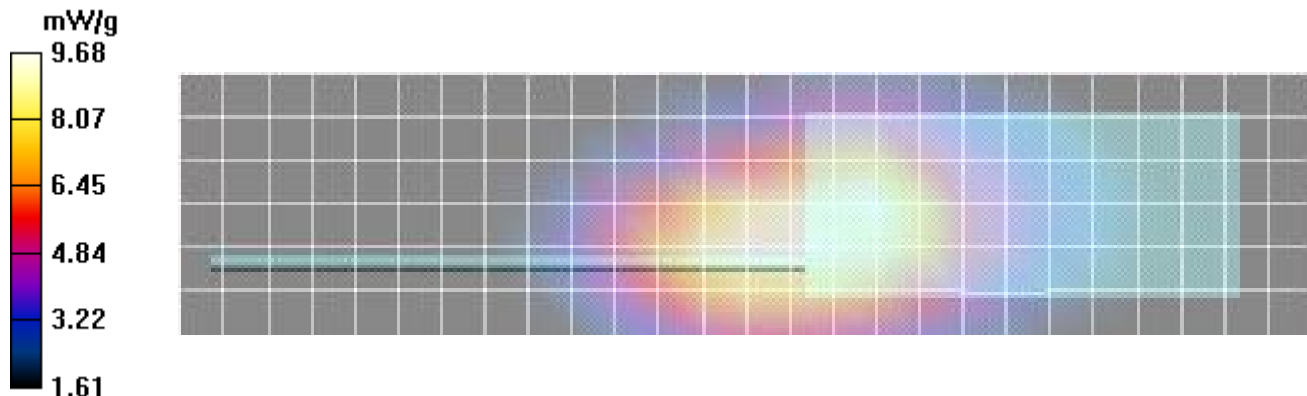
Reference Value = 101.9 V/m; Power Drift = -0.218 dB

Peak SAR (extrapolated) = 12.2 W/kg

SAR(1 g) = 9.24 mW/g; SAR(10 g) = 6.86 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 9.68 mW/g



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Plot B3

Date/Time: 06/01/2015 10:07:09 AM

450 Body 6 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 6 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 418 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 418 \text{ MHz}$; $\sigma = 0.888 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B3 Body XL-200, 418MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 10.1 mW/g

B3 Body XL-200, 418MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

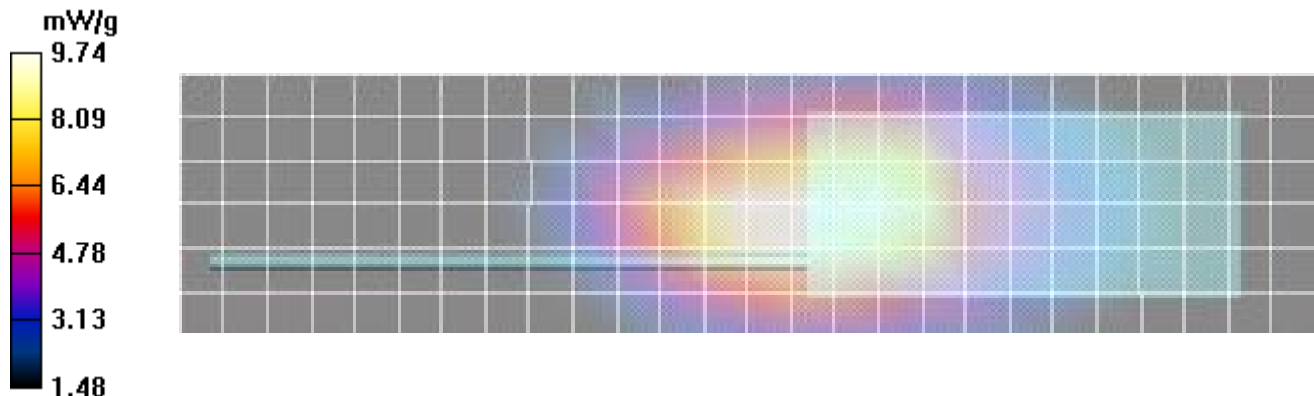
Reference Value = 106.3 V/m; Power Drift = -0.276 dB

Peak SAR (extrapolated) = 12.3 W/kg

SAR(1 g) = 9.24 mW/g; SAR(10 g) = 6.84 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

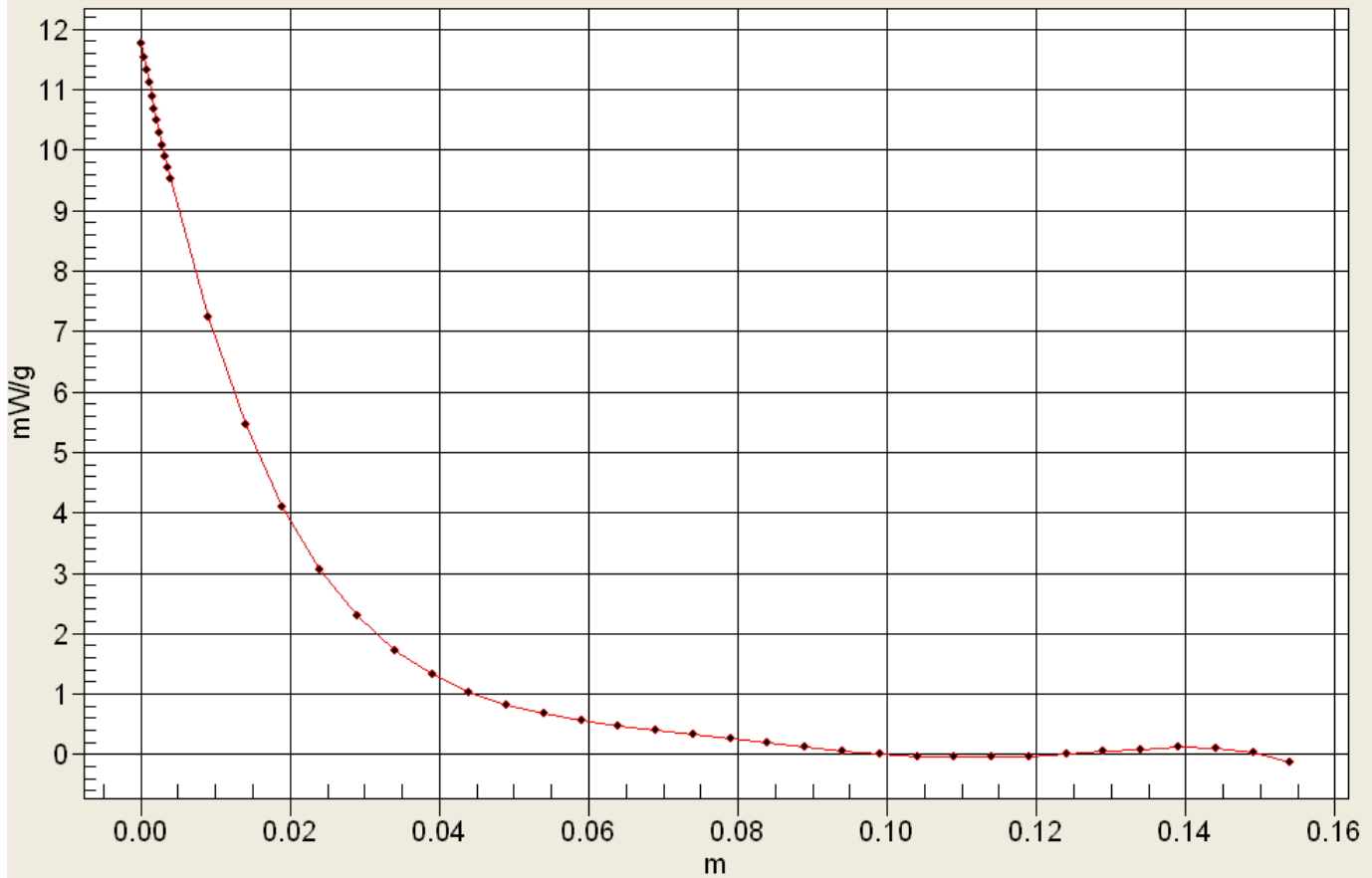
Maximum value of SAR (measured) = 9.74 mW/g



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Interpolated 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> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot B4

Date/Time: 06/01/2015 10:56:03 AM

450 Body 6 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 6 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 430 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used: $f = 430 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B4 Body XL-200, 430MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 9.25 mW/g

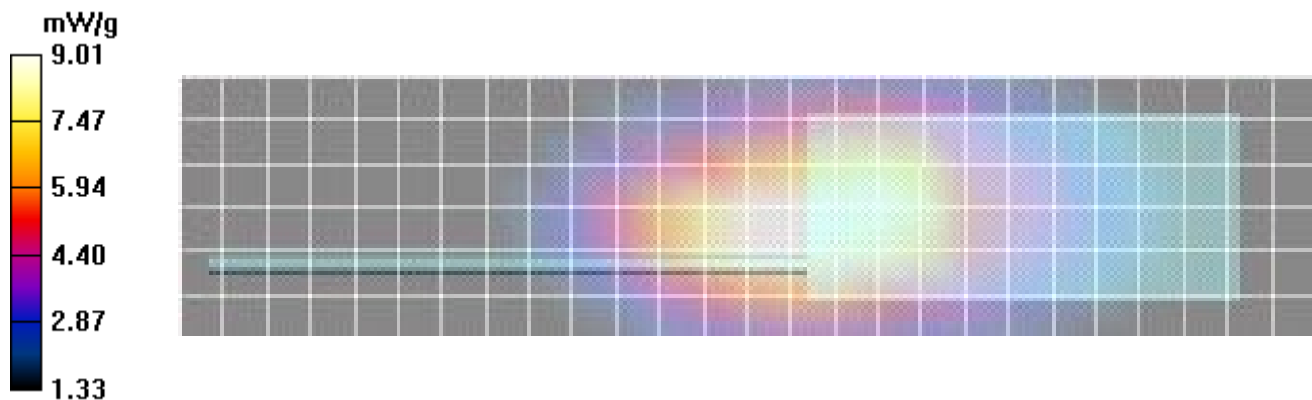
B4 Body XL-200, 430MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 102.4 V/m; Power Drift = -0.343 dB

Peak SAR (extrapolated) = 11.4 W/kg

SAR(1 g) = 8.54 mW/g; SAR(10 g) = 6.29 mW/g

Maximum value of SAR (measured) = 9.01 mW/g



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Plot B5

Date/Time: 06/01/2015 11:38:37 AM

450 Body 6 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 6 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B5 Body XL-200, 450MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 8.09 mW/g

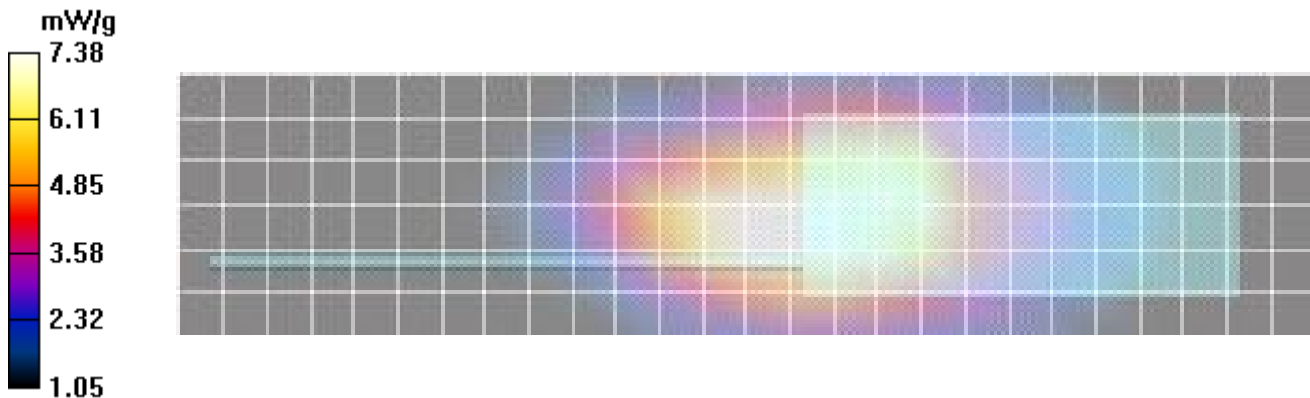
B5 Body XL-200, 450MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 97.1 V/m; Power Drift = -0.874 dB

Peak SAR (extrapolated) = 9.45 W/kg

SAR(1 g) = 7 mW/g; SAR(10 g) = 5.13 mW/g

Maximum value of SAR (measured) = 7.38 mW/g



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Plot B6

Date/Time: 06/01/2015 12:46:58 PM

450 Body 6 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 6 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 454 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 454 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 53.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B6 Body XL-200, 454MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.75 mW/g

B6 Body XL-200, 454MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

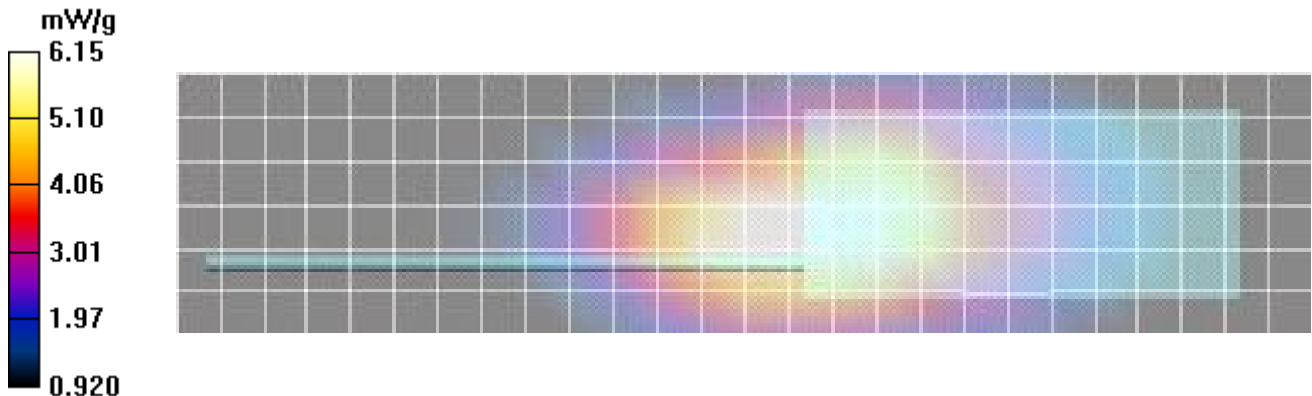
Reference Value = 88.0 V/m; Power Drift = -0.948 dB

Peak SAR (extrapolated) = 7.84 W/kg

SAR(1 g) = 5.84 mW/g; SAR(10 g) = 4.31 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.15 mW/g



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Plot B7

Date/Time: 06/01/2015 3:01:25 PM

450 Body 6 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 6 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 459.025 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used: $f = 460 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B7 Body XL-200, 459MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 6.67 mW/g

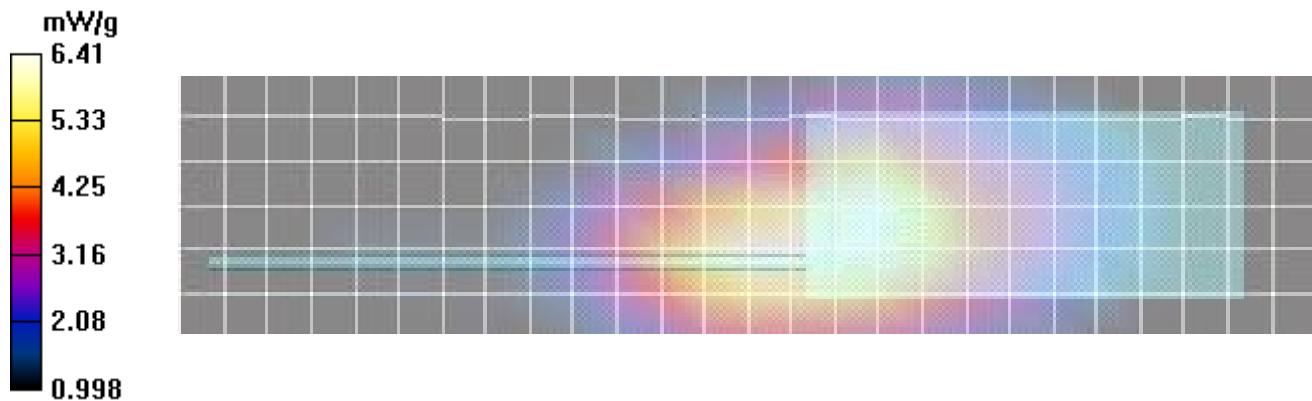
B7 Body XL-200, 459MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 83.4 V/m; Power Drift = -0.999 dB

Peak SAR (extrapolated) = 8.47 W/kg

SAR(1 g) = 5.93 mW/g; SAR(10 g) = 4.25 mW/g

Maximum value of SAR (measured) = 6.41 mW/g



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Plot B8

Date/Time: 07/01/2015 8:57:10 AM

450 Body 7 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 7 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B8 Body XL-200, 470MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.60 mW/g

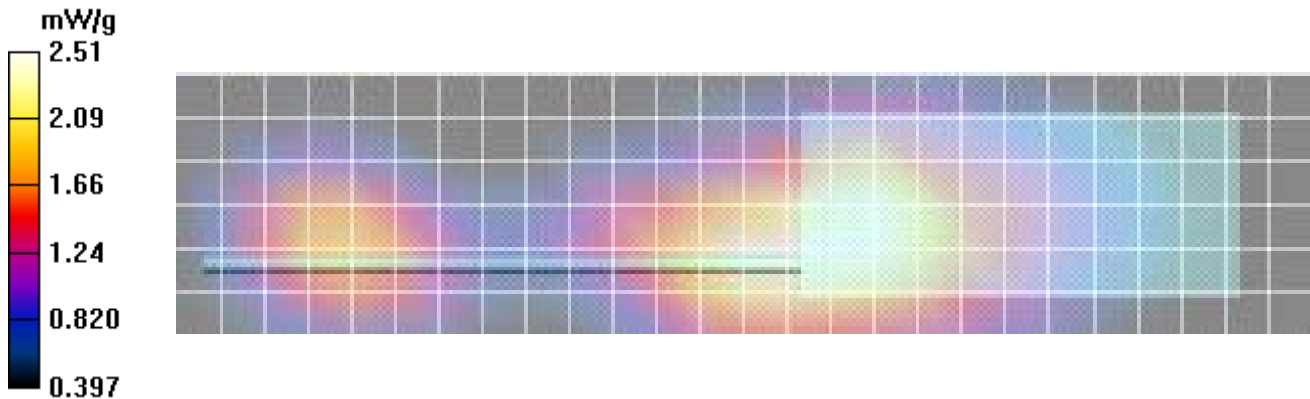
B8 Body XL-200, 470MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 53.8 V/m; Power Drift = -1.24 dB

Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 2.34 mW/g; SAR(10 g) = 1.68 mW/g

Maximum value of SAR (measured) = 2.51 mW/g



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Plot B9

Date/Time: 07/01/2015 9:20:39 AM

450 Body 7 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 7 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 522 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 522 \text{ MHz}$; $\sigma = 0.97 \text{ mho/m}$; $\epsilon_r = 52.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B9 Body XL-200, 522MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.11 mW/g

B9 Body XL-200, 522MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

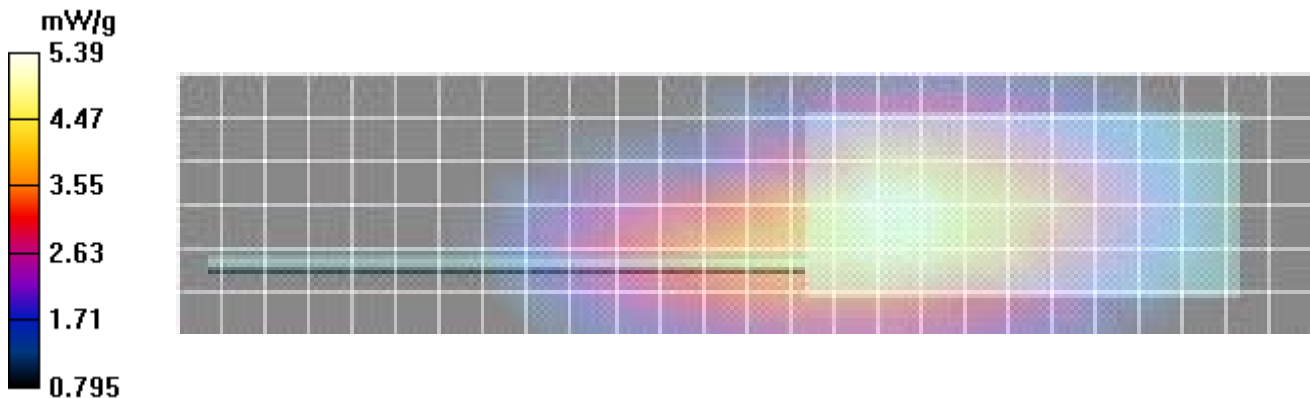
Reference Value = 65.0 V/m; Power Drift = -0.434 dB

Peak SAR (extrapolated) = 7.21 W/kg

SAR(1 g) = 5.07 mW/g; SAR(10 g) = 3.56 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

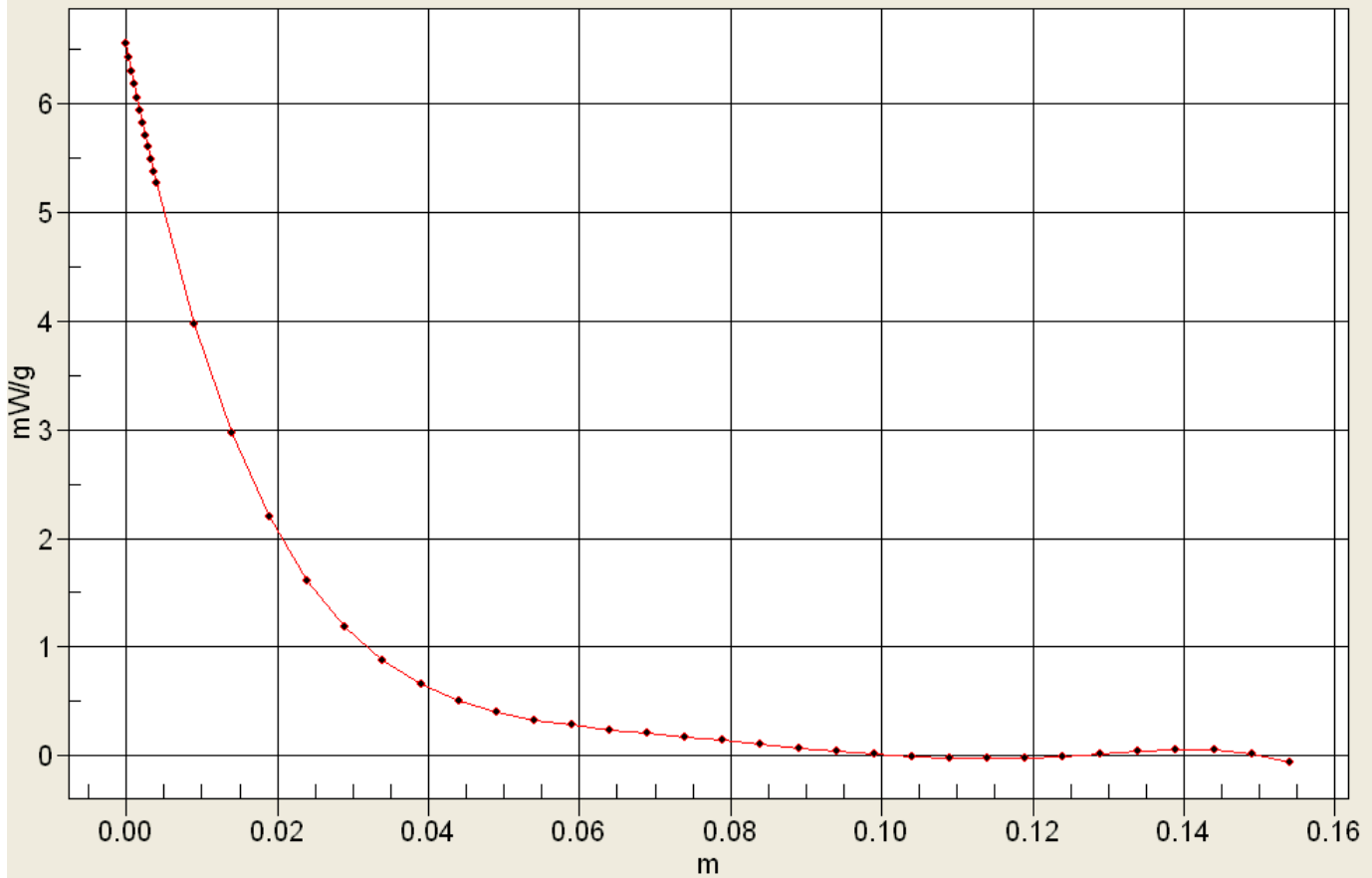
Maximum value of SAR (measured) = 5.39 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Plot B10

Date/Time: 07/01/2015 9:42:31 AM

450 Body 7 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 7 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 418 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 418 \text{ MHz}$; $\sigma = 0.888 \text{ mho/m}$; $\epsilon_r = 53.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B10 Body XL-200, 418MHz 4000-1 SCAN/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.71 mW/g

B10 Body XL-200, 418MHz 4000-1 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

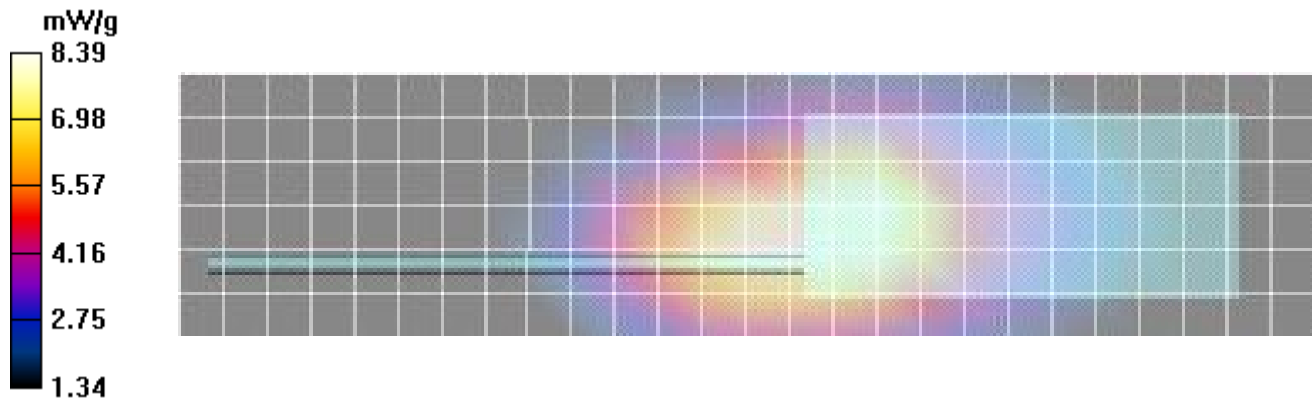
Reference Value = 95.7 V/m; Power Drift = -0.247 dB

Peak SAR (extrapolated) = 10.6 W/kg

SAR(1 g) = 7.97 mW/g; SAR(10 g) = 5.91 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.39 mW/g



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Plot F11

Date/Time: 08/01/2015 12:59:41 PM

835 Head 8 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: **Not Specified**

Program Notes: 8 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.3C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 768 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 768 \text{ MHz}$; $\sigma = 0.816 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F11 Head XL-200, 768MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.02 mW/g

F11 Head XL-200, 768MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

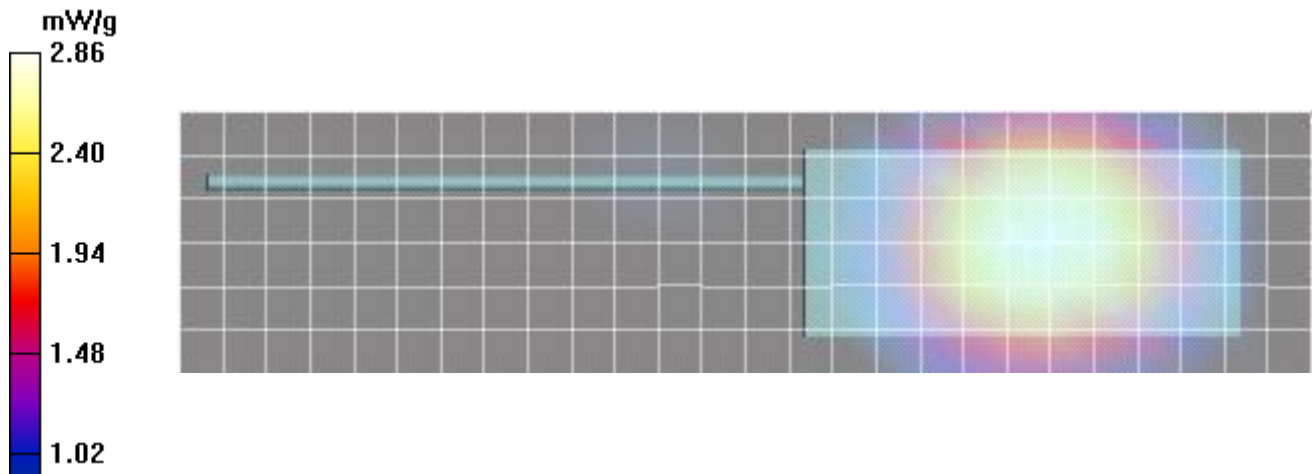
Reference Value = 27.0 V/m; Power Drift = -0.516 dB

Peak SAR (extrapolated) = 3.43 W/kg

SAR(1 g) = 2.73 mW/g; SAR(10 g) = 2.09 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.86 mW/g



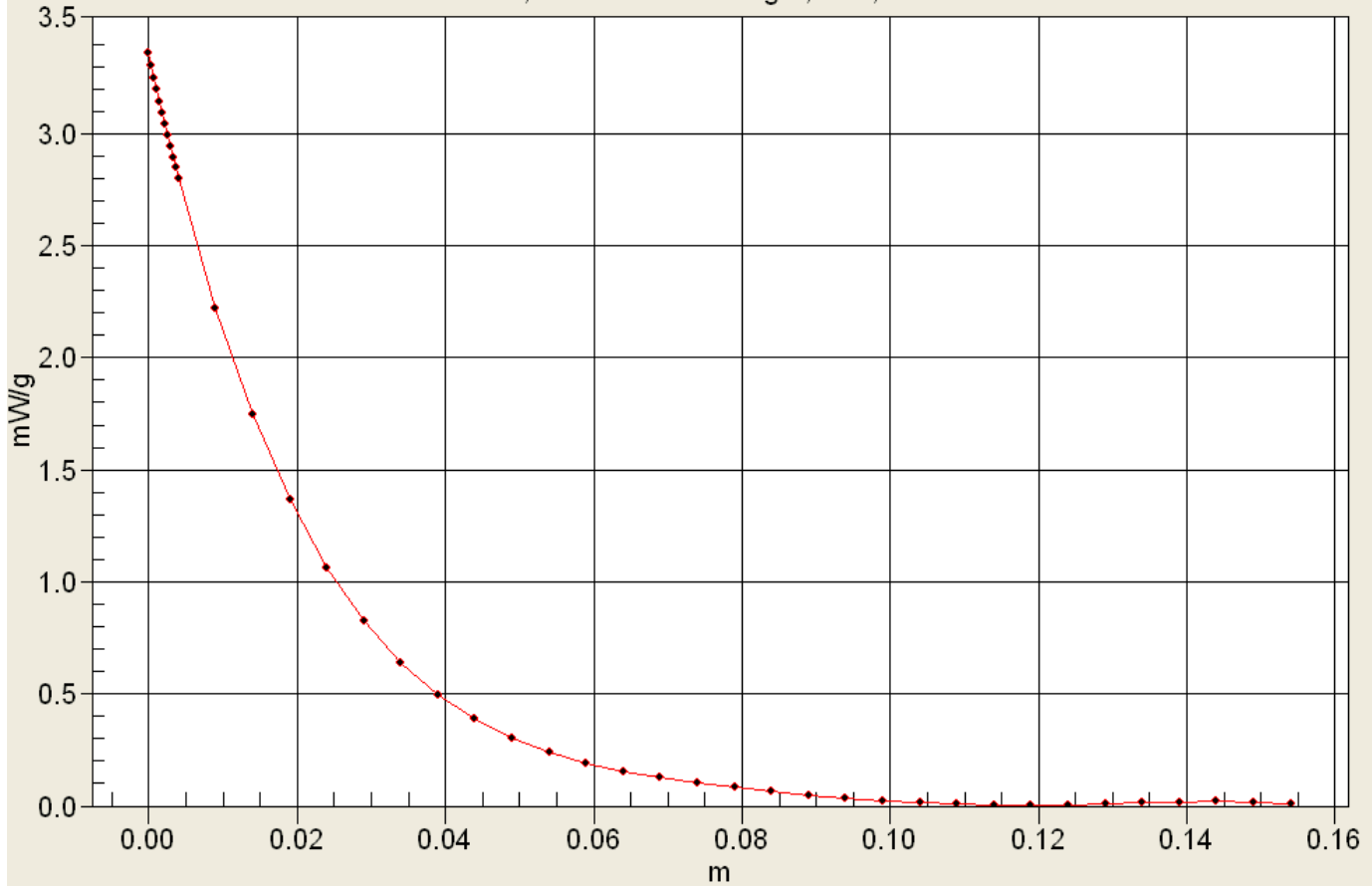
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Test Lab Certificate No. 2470.01

Interpolated SAR(x,y,z,f0)

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



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Plot F12

Date/Time: 08/01/2015 2:07:03 PM

835 Head 8 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 8 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.3C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.831 \text{ mho/m}$; $\epsilon_r = 39.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F12 Head XL-200, 776MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.82 mW/g

F12 Head XL-200, 776MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

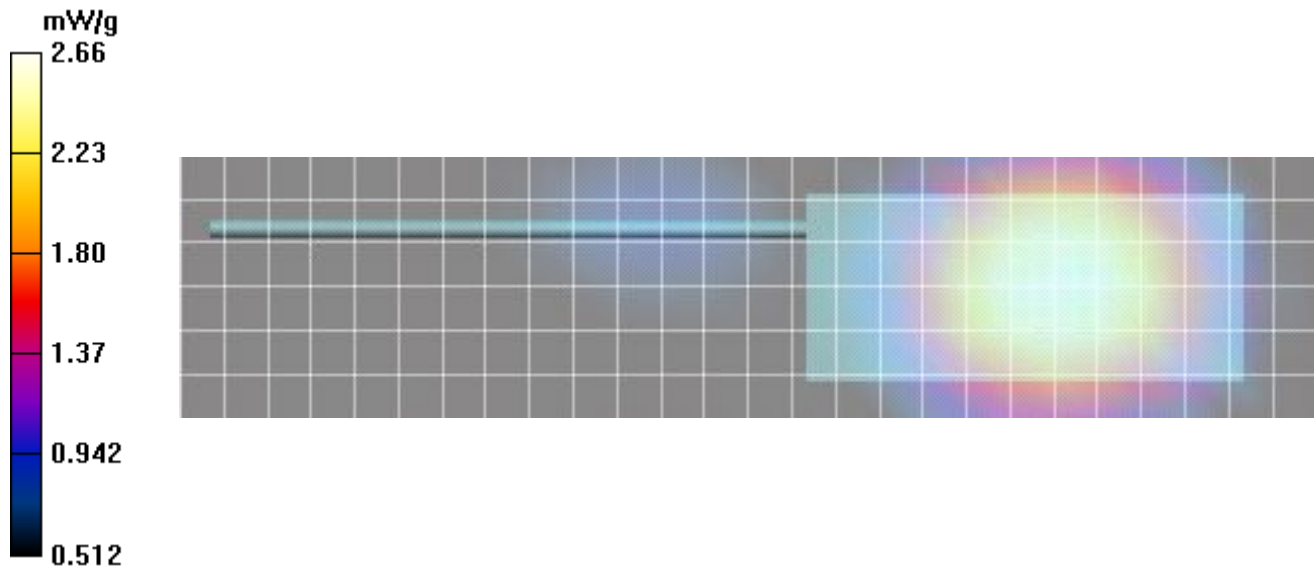
Reference Value = 25.8 V/m; Power Drift = -0.529 dB

Peak SAR (extrapolated) = 3.18 W/kg

SAR(1 g) = 2.54 mW/g; SAR(10 g) = 1.94 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.66 mW/g



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Plot F13

Date/Time: 08/01/2015 3:21:48 PM

835 Head 8 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 8 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.3C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.852 \text{ mho/m}$; $\epsilon_r = 39.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F13 Head XL-200, 806MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.05 mW/g

F13 Head XL-200, 806MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

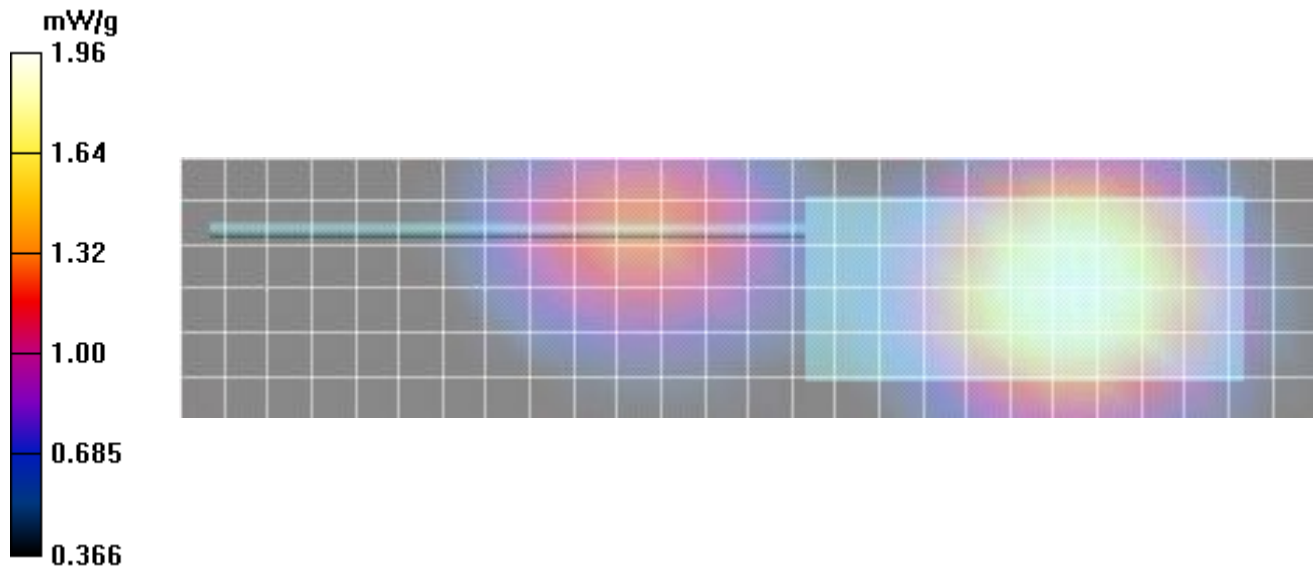
Reference Value = 26.5 V/m; Power Drift = -0.560 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 1.88 mW/g; SAR(10 g) = 1.42 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.96 mW/g



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Plot F14

Date/Time: 09/01/2015 9:14:27 AM

835 Head 9 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: **Not Specified**

Program Notes: 9 Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.908 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.23, 8.23, 8.23); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F14 Head XL-200, 851MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.66 mW/g

F14 Head XL-200, 851MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

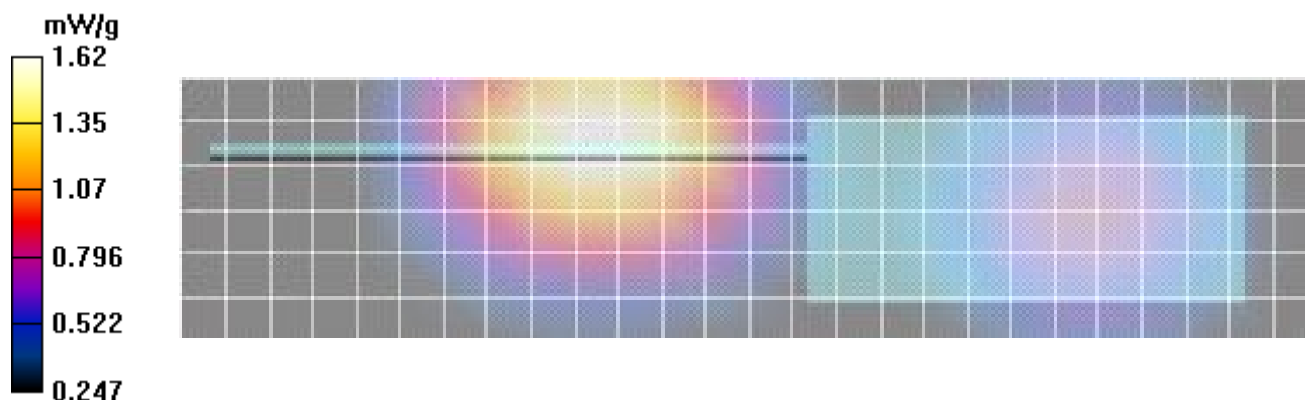
Reference Value = 22.4 V/m; Power Drift = -0.930 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 1.54 mW/g; SAR(10 g) = 1.14 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

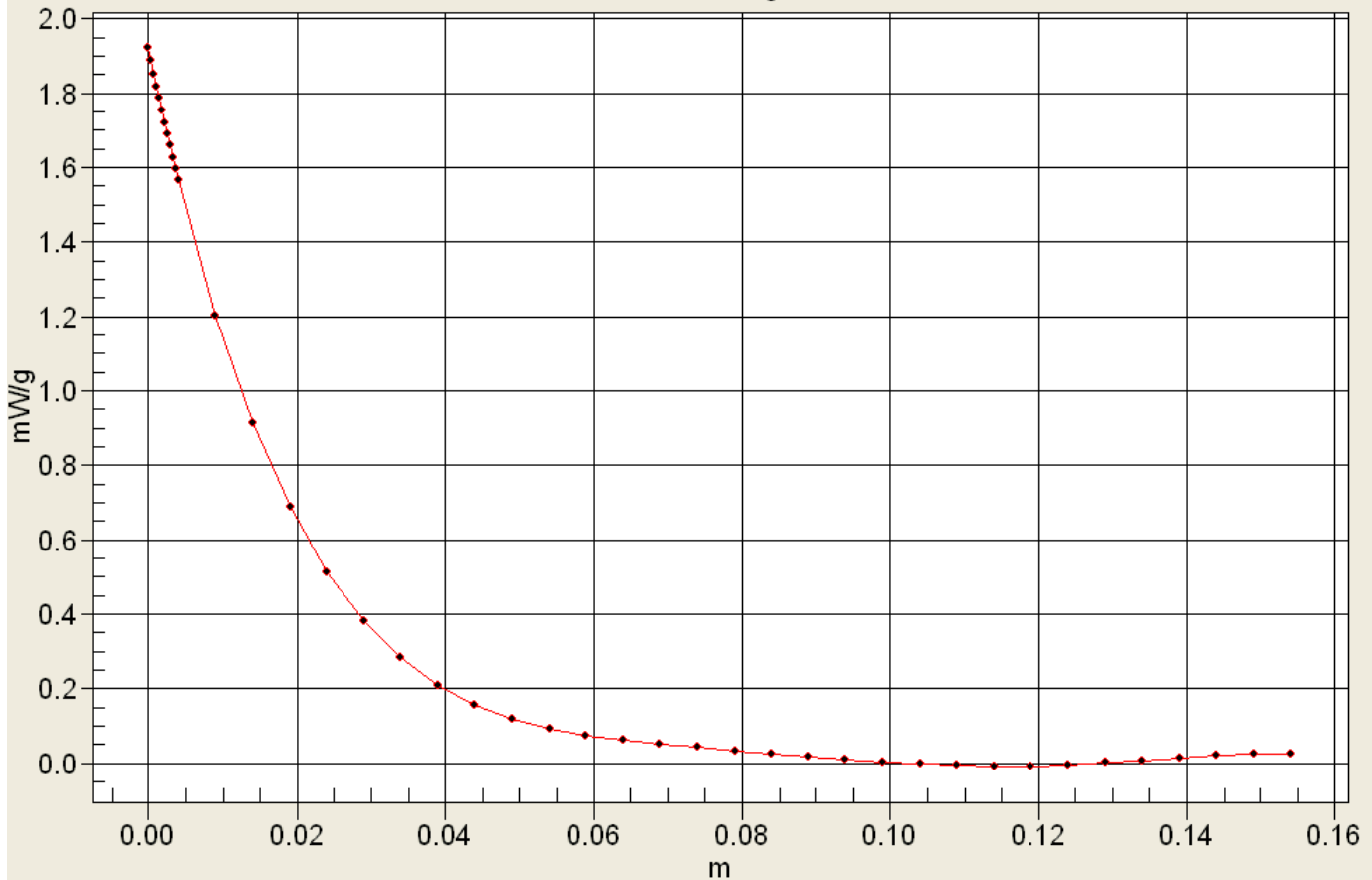
Maximum value of SAR (measured) = 1.62 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Plot F15

Date/Time: 09/01/2015 9:44:30 AM

835 Head 9 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 9 Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 856 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 856 \text{ MHz}$; $\sigma = 0.919 \text{ mho/m}$; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.23, 8.23, 8.23); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F15 Head XL-200, 856MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.62 mW/g

F15 Head XL-200, 856MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

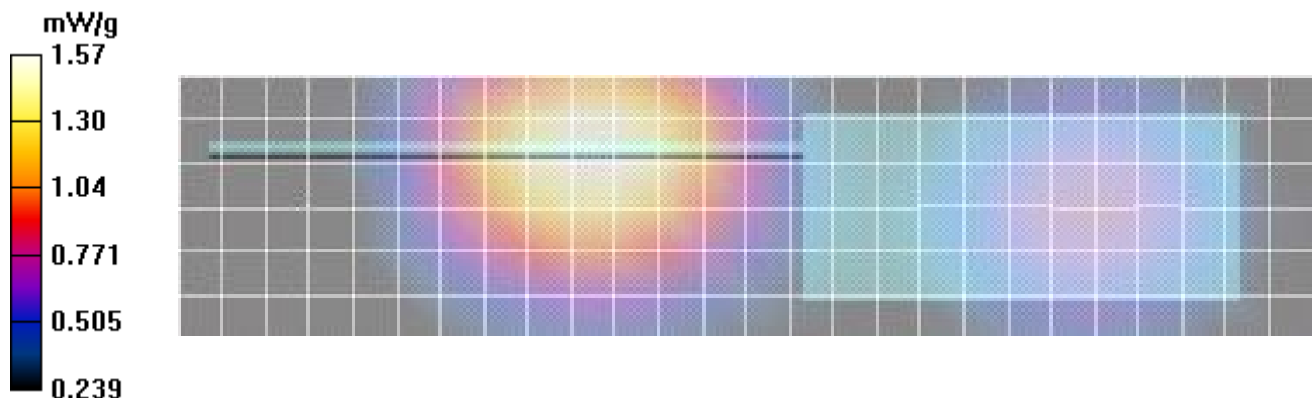
Reference Value = 22.1 V/m; Power Drift = -0.839 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 1.49 mW/g; SAR(10 g) = 1.1 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.57 mW/g



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Plot F16

Date/Time: 09/01/2015 10:04:34 AM

835 Head 9 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 9 Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 861 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 861 \text{ MHz}$; $\sigma = 0.914 \text{ mho/m}$; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.09, 8.09, 8.09); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F16 Head XL-200, 861MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.43 mW/g

F16 Head XL-200, 861MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

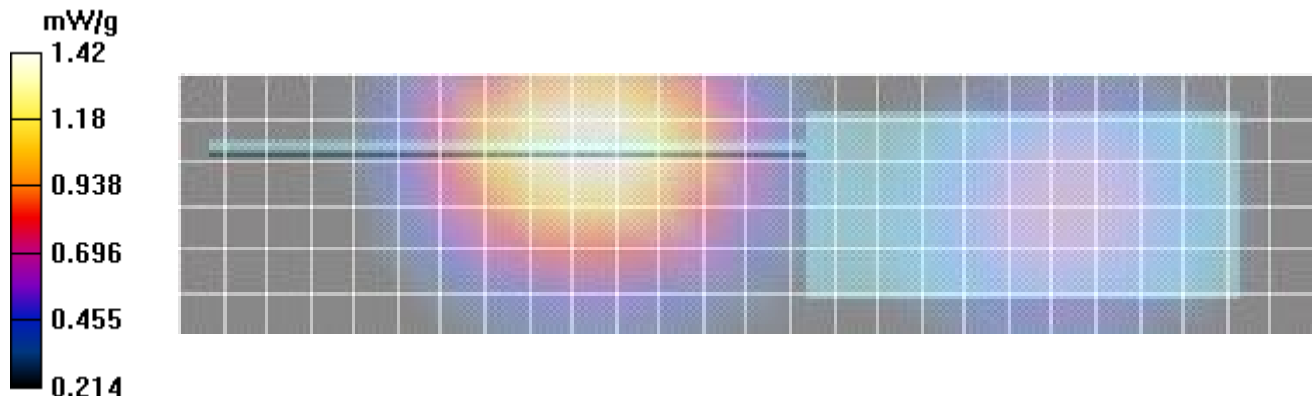
Reference Value = 19.8 V/m; Power Drift = -0.468 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.988 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.42 mW/g



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Plot F17

Date/Time: 09/01/2015 10:28:58 AM

835 Head 9 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 9 Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 768 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 768 \text{ MHz}$; $\sigma = 0.816 \text{ mho/m}$; $\epsilon_r = 40.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F17 Head XL-200, 768MHz 4000-1 SCAN/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.51 mW/g

F17 Head XL-200, 768MHz 4000-1 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

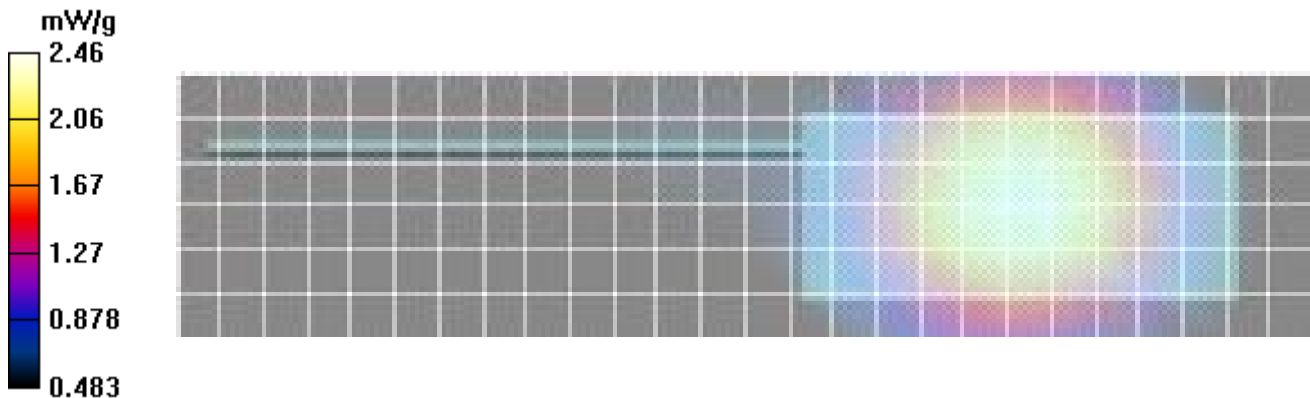
Reference Value = 29.9 V/m; Power Drift = -0.391 dB

Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 2.35 mW/g; SAR(10 g) = 1.8 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.46 mW/g



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Plot F18

Date/Time: 10/01/2015 12:21:52 PM

150 Head 10 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 136 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 136 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F18 Head XL-200, 136MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.41 mW/g

F18 Head XL-200, 136MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 41.8 V/m; Power Drift = -0.600 dB

Peak SAR (extrapolated) = 1.77 W/kg

SAR(1 g) = 1.36 mW/g; SAR(10 g) = 1.06 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

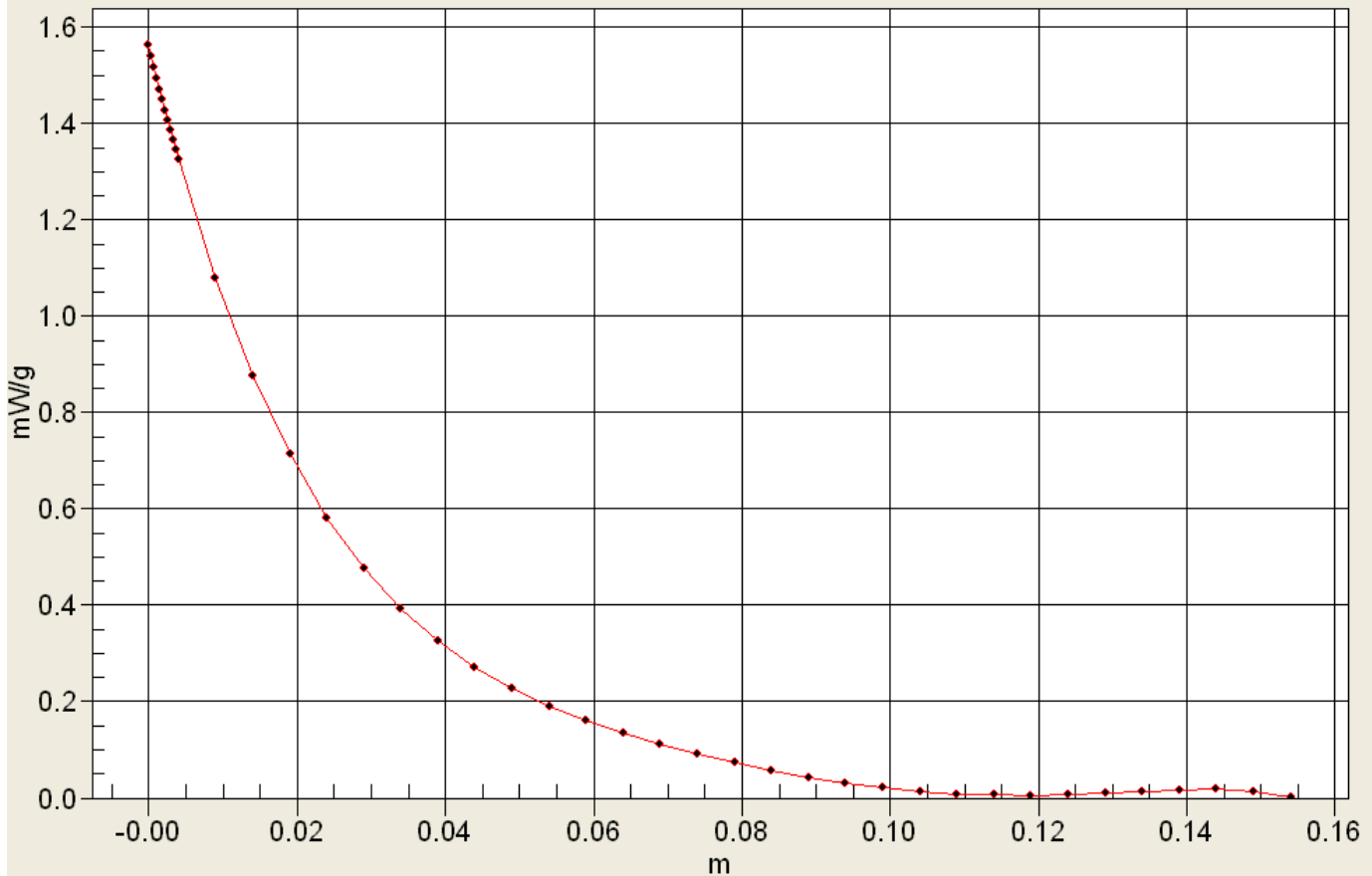
Maximum value of SAR (measured) = 1.37 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Plot F19

Date/Time: 10/01/2015 12:40:12 PM

150 Head 10 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 138 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 138 \text{ MHz}$; $\sigma = 0.778 \text{ mho/m}$; $\epsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F19 Head XL-200, 138MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.22 mW/g

F19 Head XL-200, 138MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

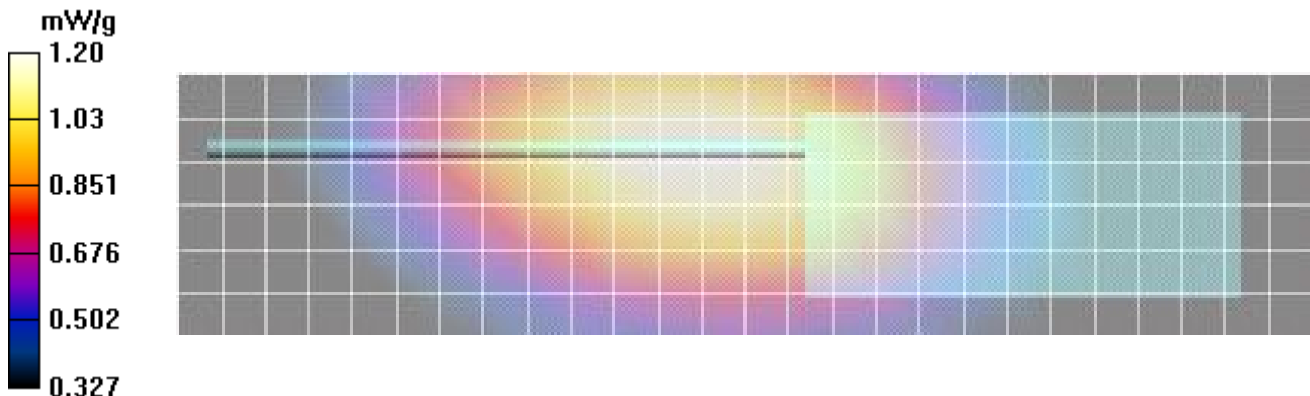
Reference Value = 38.4 V/m; Power Drift = -0.435 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.916 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.20 mW/g



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Plot F20

Date/Time: 10/01/2015 12:59:42 PM

150 Head 10 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 141 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 141 \text{ MHz}$; $\sigma = 0.779 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F20 Head XL-200, 141MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.679 mW/g

F20 Head XL-200, 141MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 27.6 V/m; Power Drift = -0.317 dB

Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.639 mW/g; SAR(10 g) = 0.507 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.665 mW/g



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Plot F21

Date/Time: 10/01/2015 1:18:21 PM

150 Head 10 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: **Not Specified**

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 148 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 148 \text{ MHz}$; $\sigma = 0.772 \text{ mho/m}$; $\epsilon_r = 51.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F21 Head XL-200, 148MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.481 mW/g

F21 Head XL-200, 148MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 22.9 V/m; Power Drift = -0.141 dB

Peak SAR (extrapolated) = 0.575 W/kg

SAR(1 g) = 0.460 mW/g; SAR(10 g) = 0.365 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.478 mW/g



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Plot F22

Date/Time: 10/01/2015 2:38:26 PM

150 Head 10 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: **Not Specified**

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 156.8 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 156.8 \text{ MHz}$; $\sigma = 0.784 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F22 Head XL-200, 156.8MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.549 mW/g

F22 Head XL-200, 156.8MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 23.9 V/m; Power Drift = -0.593 dB

Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.404 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.534 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot F23

Date/Time: 10/01/2015 1:59:41 PM

150 Head 10 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.79 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F23 Head XL-200, 162MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.739 mW/g

F23 Head XL-200, 162MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

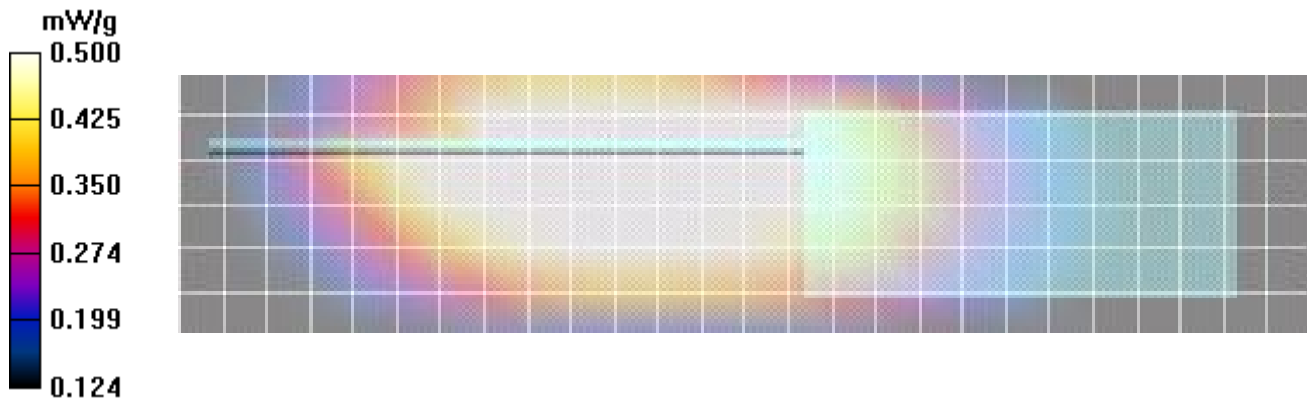
Reference Value = 21.8 V/m; Power Drift = -0.456 dB

Peak SAR (extrapolated) = 0.607 W/kg

SAR(1 g) = 0.481 mW/g; SAR(10 g) = 0.378 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.500 mW/g



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Plot F24

Date/Time: 10/01/2015 2:19:14 PM

150 Head 10 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: **Not Specified**

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 174 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 174 \text{ MHz}$; $\sigma = 0.79 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F24 Head XL-200, 174MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.166 mW/g

F24 Head XL-200, 174MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

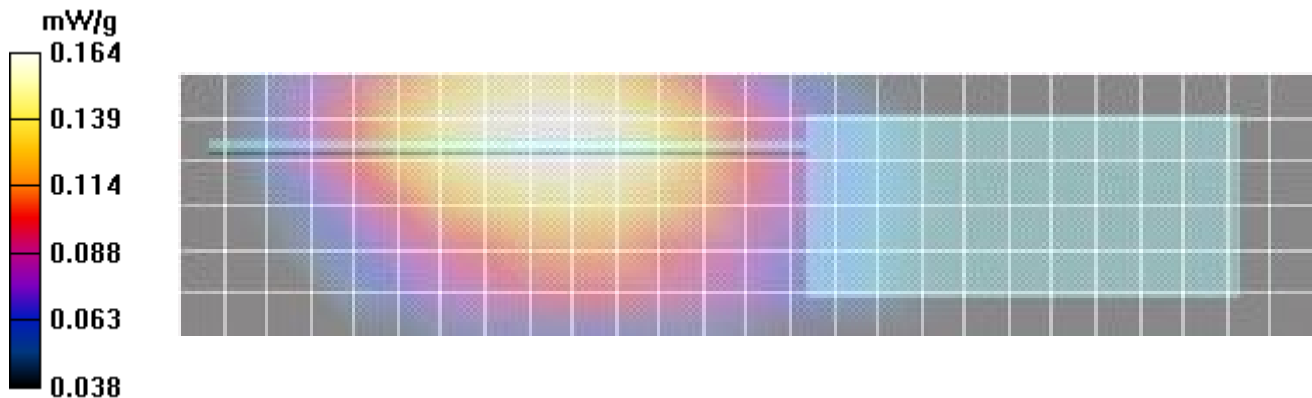
Reference Value = 10.3 V/m; Power Drift = -0.947 dB

Peak SAR (extrapolated) = 0.198 W/kg

SAR(1 g) = 0.156 mW/g; SAR(10 g) = 0.121 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.164 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot F25

Date/Time: 10/01/2015 3:00:14 PM

150 Head 10 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 136 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 136 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F25 Head XL-200, 136MHz 4000-1 SCAN/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.45 mW/g

F25 Head XL-200, 136MHz 4000-1 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 42.3 V/m; Power Drift = -0.582 dB

Peak SAR (extrapolated) = 1.83 W/kg

SAR(1 g) = 1.38 mW/g; SAR(10 g) = 0.999 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.40 mW/g



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Plot F26

Date/Time: 12/01/2015 12:31:27 PM

150 Head(antenna) 12 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 12 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.5C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 136 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 136 \text{ MHz}$; $\sigma = 0.776 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F26 Head XL-200, 136MHz 1219-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.228 mW/g

F26 Head XL-200, 136MHz 1219-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

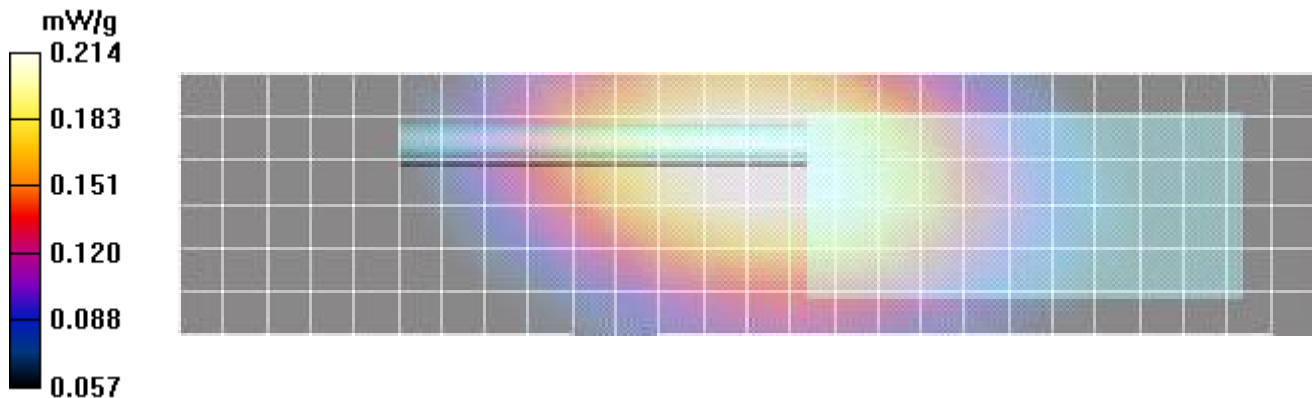
Reference Value = 17.3 V/m; Power Drift = -0.735 dB

Peak SAR (extrapolated) = 0.258 W/kg

SAR(1 g) = 0.206 mW/g; SAR(10 g) = 0.163 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.214 mW/g



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Plot F27

Date/Time: 12/01/2015 12:53:33 PM

150 Head(antenna) 12 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 12 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.5C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 138 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 138 \text{ MHz}$; $\sigma = 0.778 \text{ mho/m}$; $\epsilon_r = 51.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F27 Head XL-200, 138MHz 1219-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.308 mW/g

F27 Head XL-200, 138MHz 1219-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

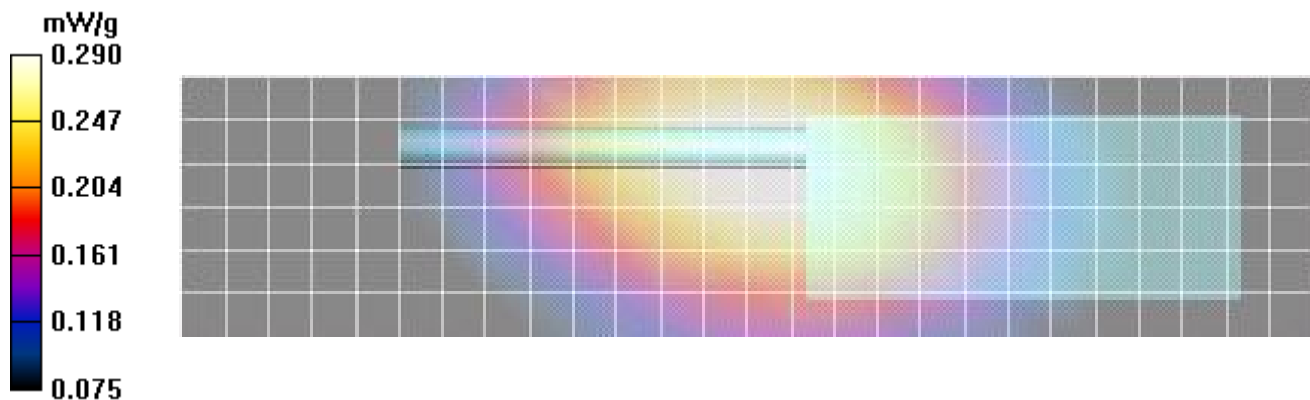
Reference Value = 20.6 V/m; Power Drift = -1.03 dB

Peak SAR (extrapolated) = 0.352 W/kg

SAR(1 g) = 0.279 mW/g; SAR(10 g) = 0.220 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.290 mW/g



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Plot F28

Date/Time: 12/01/2015 1:22:10 PM

150 Head(antenna) 12 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 12 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.5C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 141 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 141 \text{ MHz}$; $\sigma = 0.779 \text{ mho/m}$; $\epsilon_r = 51.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F28 Head XL-200, 141MHz 1219-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.375 mW/g

F28 Head XL-200, 141MHz 1219-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

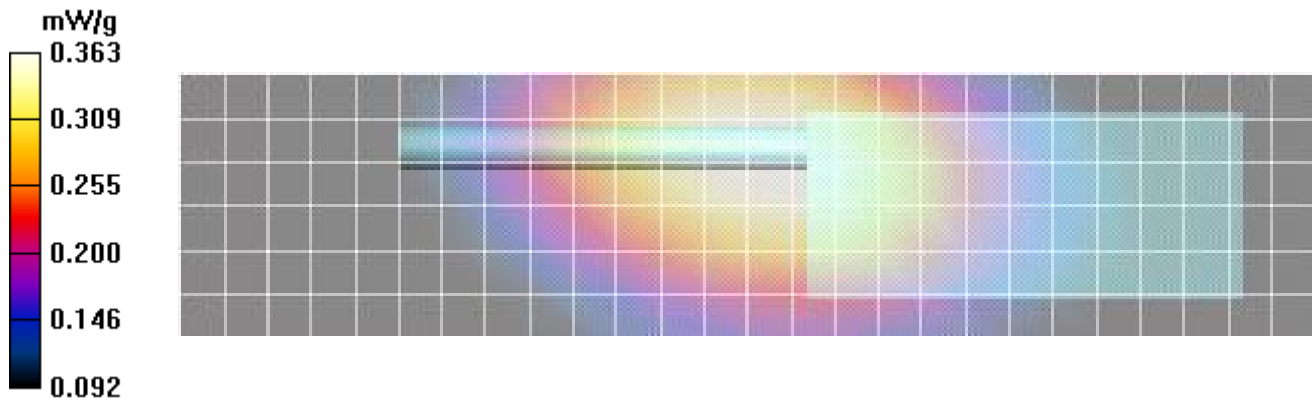
Reference Value = 21.9 V/m; Power Drift = -0.594 dB

Peak SAR (extrapolated) = 0.438 W/kg

SAR(1 g) = 0.348 mW/g; SAR(10 g) = 0.274 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

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



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Plot F29

Date/Time: 12/01/2015 2:40:48 PM

150 Head(antenna) 12 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 12 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.5C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 148 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 148 \text{ MHz}$; $\sigma = 0.772 \text{ mho/m}$; $\epsilon_r = 51.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F29 Head XL-200, 148MHz 1219-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.479 mW/g

F29 Head XL-200, 148MHz 1219-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

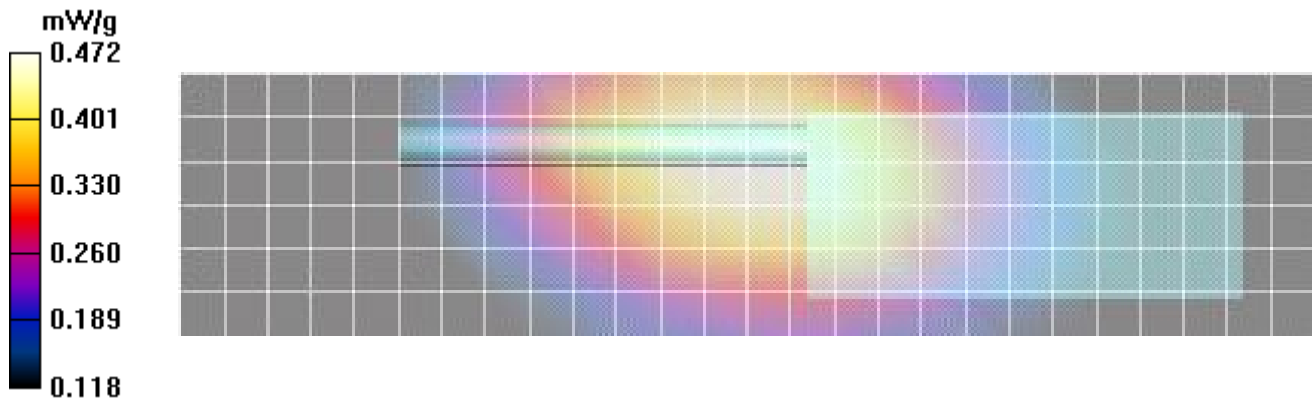
Reference Value = 24.5 V/m; Power Drift = -0.318 dB

Peak SAR (extrapolated) = 0.570 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.356 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.472 mW/g



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Plot F30

Date/Time: 12/01/2015 2:58:38 PM

150 Head(antenna) 12 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 12 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.5C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 156.8 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 156.8 \text{ MHz}$; $\sigma = 0.784 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F30 Head XL-200, 156.8MHz 1219-2 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.95 mW/g

F30 Head XL-200, 156.8MHz 1219-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

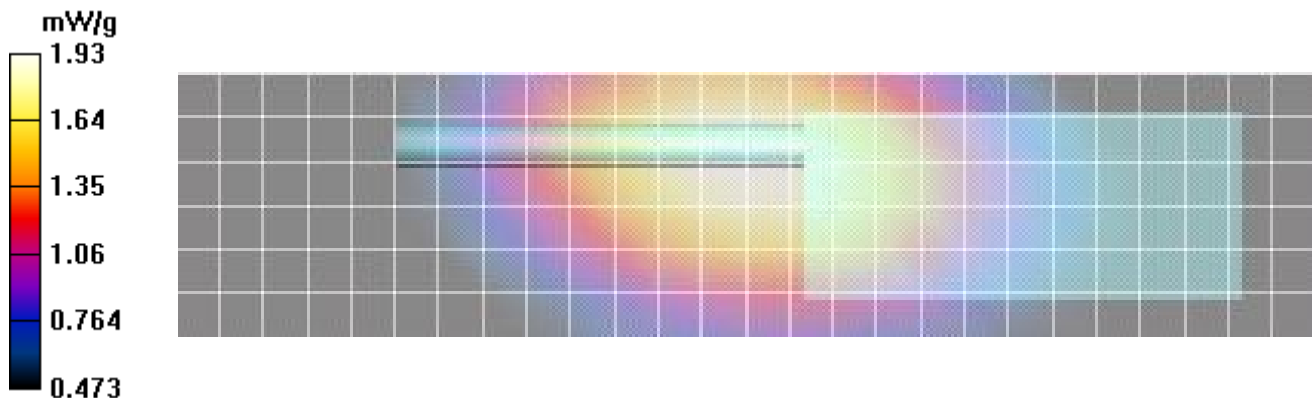
Reference Value = 48.3 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 1.85 mW/g; SAR(10 g) = 1.45 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.93 mW/g



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Plot F31

Date/Time: 12/01/2015 3:15:42 PM

150 Head(antenna) 12 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 12 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.5C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.79 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F31 Head XL-200, 162MHz 1219-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.83 mW/g

F31 Head XL-200, 162MHz 1219-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

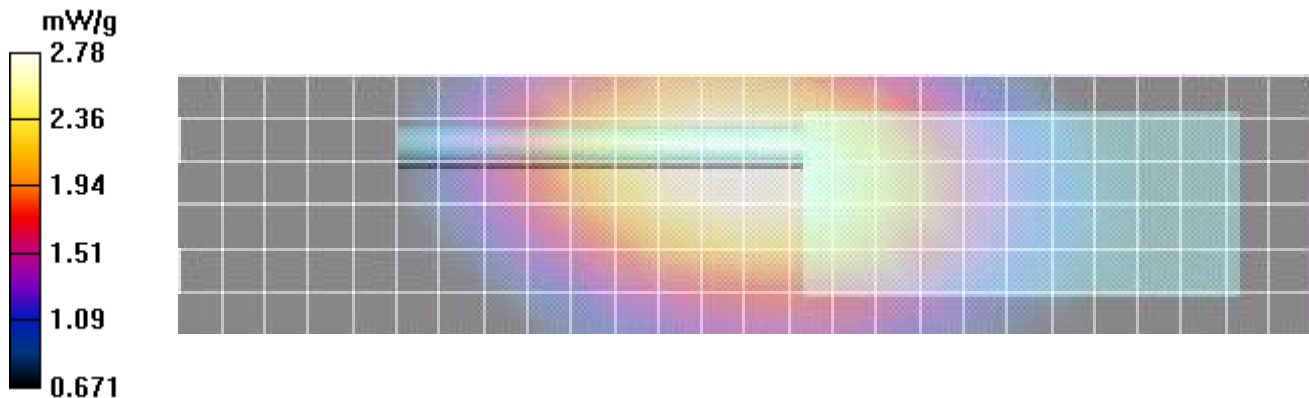
Reference Value = 60.0 V/m; Power Drift = -0.513 dB

Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 2.66 mW/g; SAR(10 g) = 2.08 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

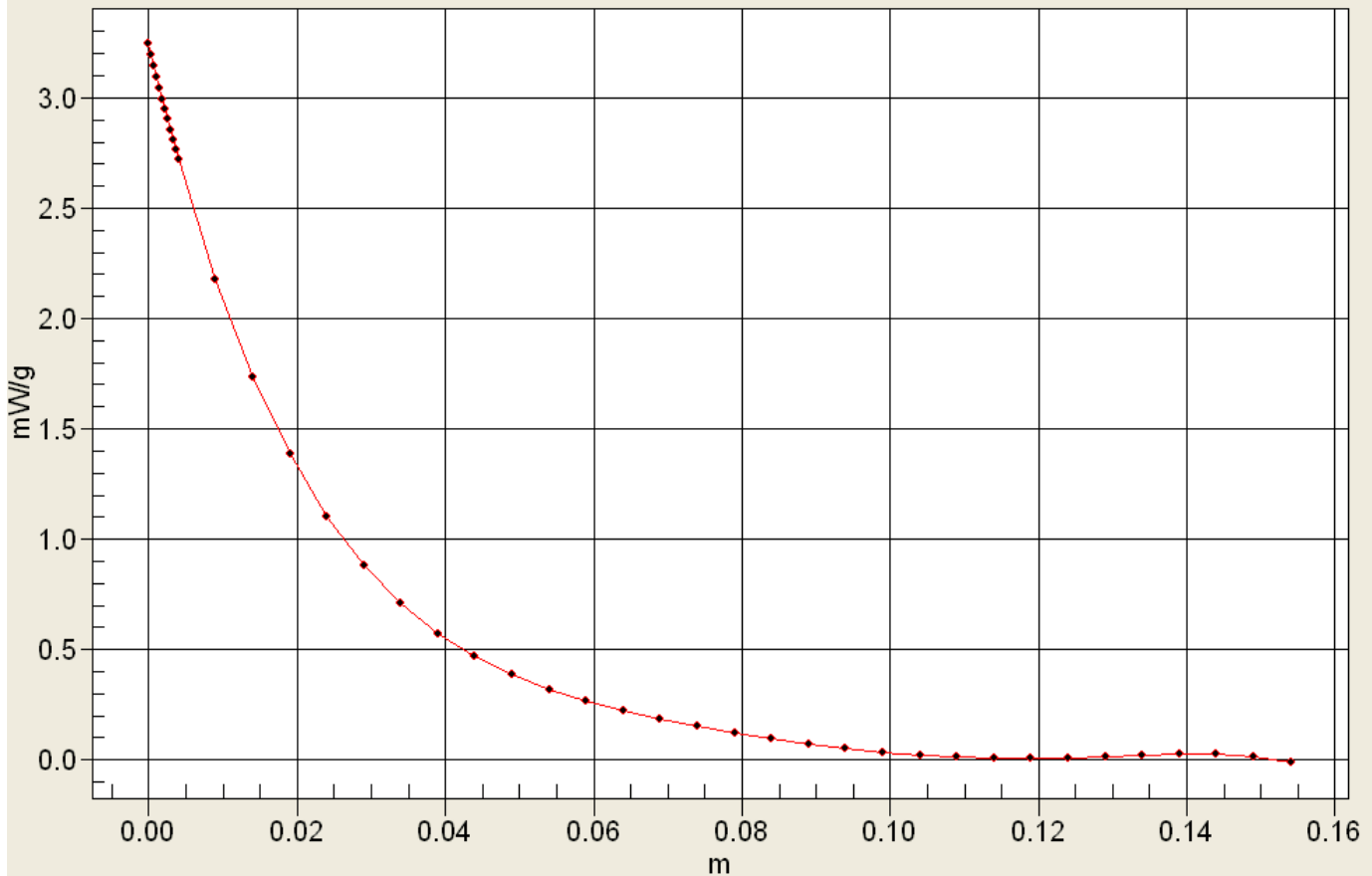
Maximum value of SAR (measured) = 2.78 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Plot F32

Date/Time: 12/01/2015 3:33:02 PM

150 Head(antenna) 12 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 12 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.5C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 174 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 174 \text{ MHz}$; $\sigma = 0.79 \text{ mho/m}$; $\epsilon_r = 50.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F32 Head XL-200, 174MHz 1219-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.800 mW/g

F32 Head XL-200, 174MHz 1219-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

Reference Value = 31.9 V/m; Power Drift = -0.526 dB

Peak SAR (extrapolated) = 0.982 W/kg

SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.599 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.801 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot F33

Date/Time: 13/01/2015 8:46:24 AM

150 Head(antenna) 13 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 13 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.79 \text{ mho/m}$; $\epsilon_r = 50.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F33 Head XL-200, 162MHz 1219-2 SCAN/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.18 mW/g

F33 Head XL-200, 162MHz 1219-2 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

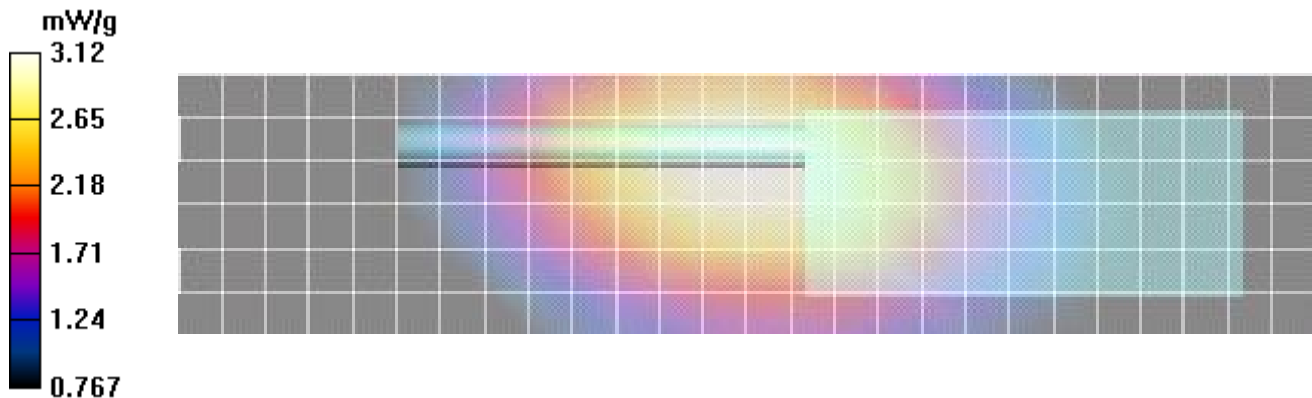
Reference Value = 63.3 V/m; Power Drift = -0.421 dB

Peak SAR (extrapolated) = 3.79 W/kg

SAR(1 g) = 3 mW/g; SAR(10 g) = 2.35 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.12 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot B11

Date/Time: 14/01/2015 12:36:02 PM

150 Body 14 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 14Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 136 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 136 \text{ MHz}$; $\sigma = 0.806 \text{ mho/m}$; $\epsilon_r = 64.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B11 Body XL-200, 136MHz SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.76 mW/g

B11 Body XL-200, 136MHz SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

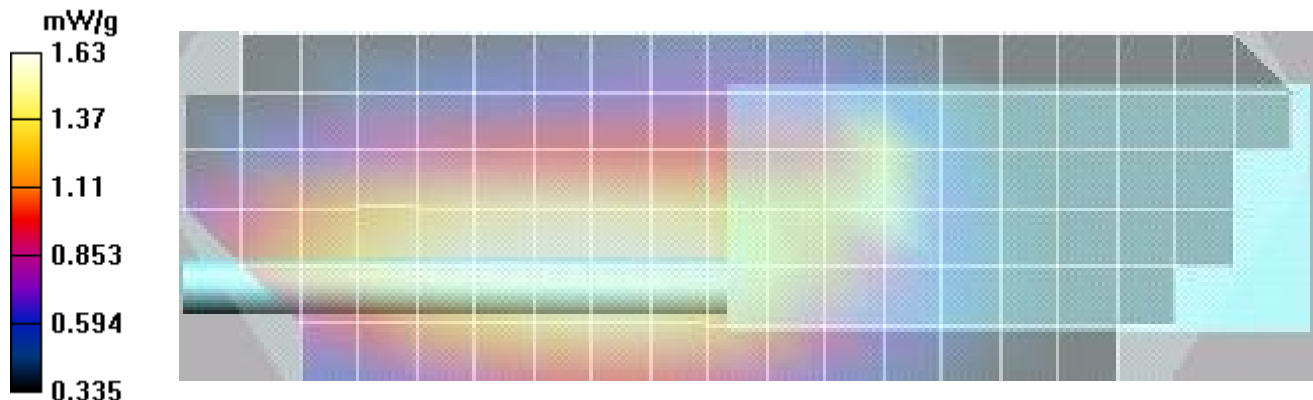
Reference Value = 41.2 V/m; Power Drift = -0.369 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 1.56 mW/g; SAR(10 g) = 1.16 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.63 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot B12

Date/Time: 14/01/2015 12:51:47 PM

150 Body 14 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 14Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 138 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 138 \text{ MHz}$; $\sigma = 0.808 \text{ mho/m}$; $\epsilon_r = 64.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B12 Body XL-200, 138MHz SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.91 mW/g

B12 Body XL-200, 138MHz SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

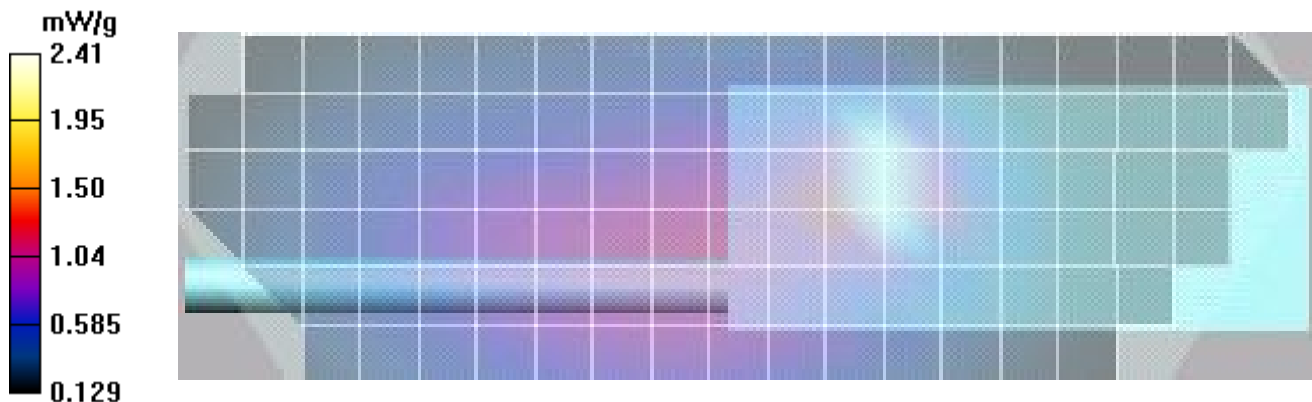
Reference Value = 36.5 V/m; Power Drift = -0.769 dB

Peak SAR (extrapolated) = 5.86 W/kg

SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.24 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.41 mW/g



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Plot B13

Date/Time: 14/01/2015 1:08:58 PM

150 Body 14 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 14Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 141 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 141 \text{ MHz}$; $\sigma = 0.808 \text{ mho/m}$; $\epsilon_r = 65.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B13 Body XL-200, 141MHz SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.28 mW/g

B13 Body XL-200, 141MHz SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

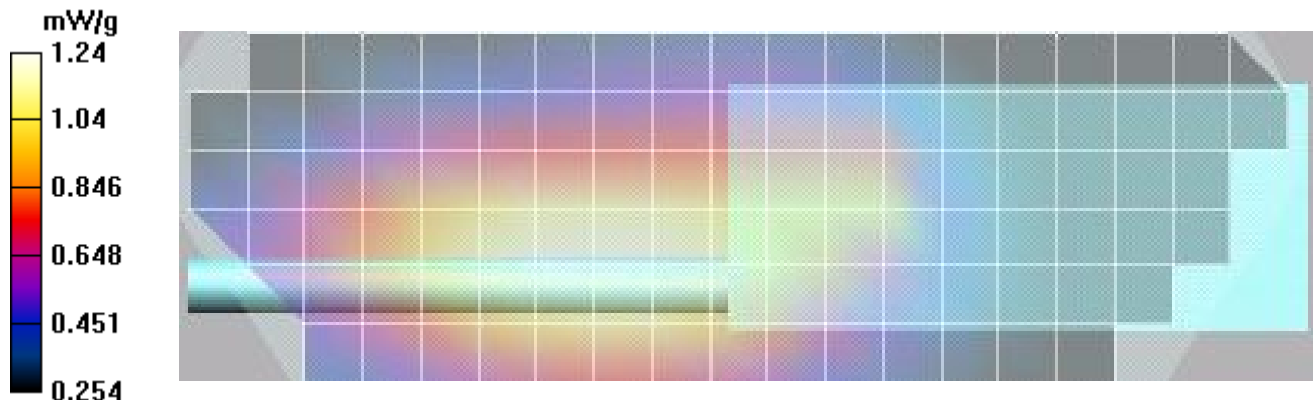
Reference Value = 36.1 V/m; Power Drift = -0.325 dB

Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.888 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.24 mW/g



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Plot B14

Date/Time: 14/01/2015 1:27:35 PM

150 Body 14 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 14Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 148 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 148 \text{ MHz}$; $\sigma = 0.794 \text{ mho/m}$; $\epsilon_r = 66.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B14 Body XL-200, 148MHz SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.97 mW/g

B14 Body XL-200, 148MHz SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

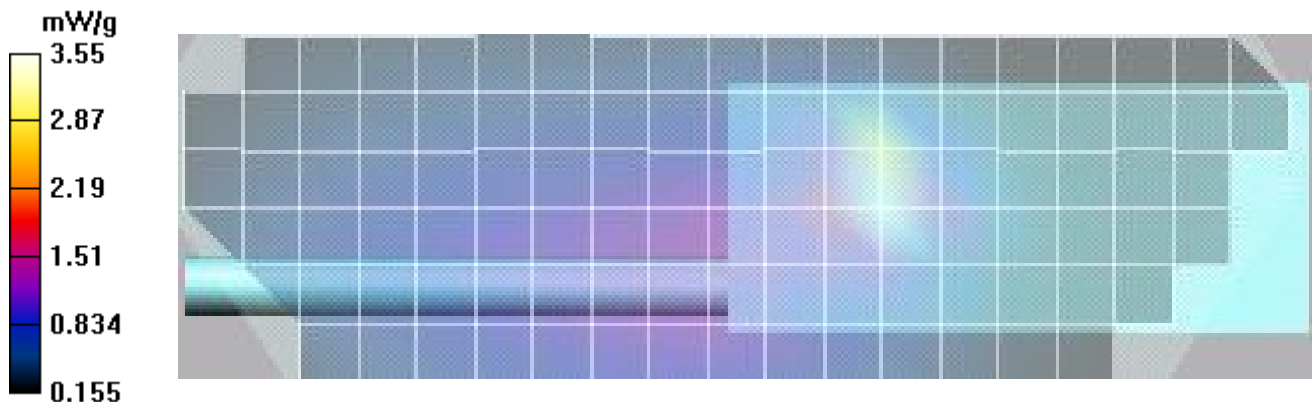
Reference Value = 39.3 V/m; Power Drift = -0.596 dB

Peak SAR (extrapolated) = 8.78 W/kg

SAR(1 g) = 3.36 mW/g; SAR(10 g) = 1.66 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.55 mW/g



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Plot B15

Date/Time: 14/01/2015 1:45:11 PM

150 Body 14 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 14Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 156.8 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 156.8 \text{ MHz}$; $\sigma = 0.797 \text{ mho/m}$; $\epsilon_r = 65.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B15 Body XL-200, 156.8MHz SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 11.7 mW/g

B15 Body XL-200, 156.8MHz SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

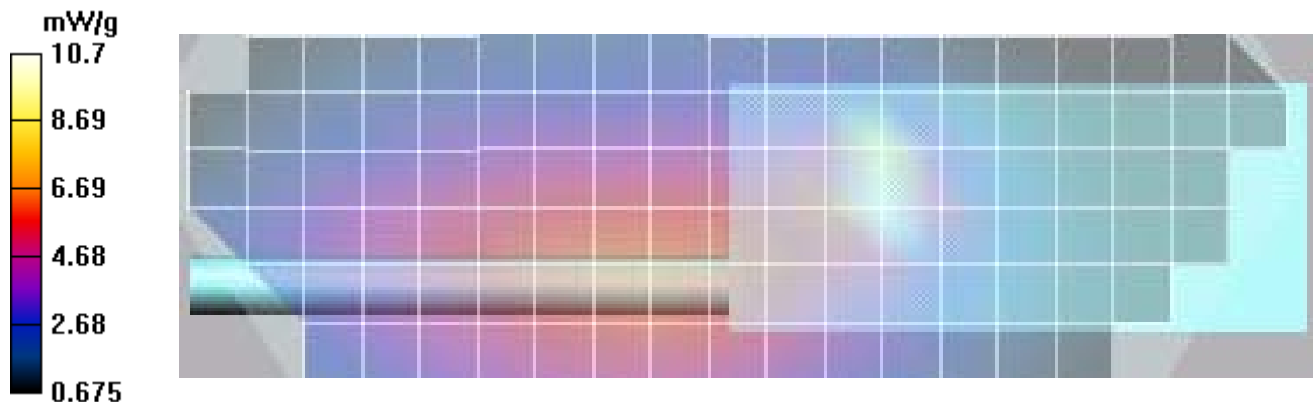
Reference Value = 84.1 V/m; Power Drift = -0.290 dB

Peak SAR (extrapolated) = 22.8 W/kg

SAR(1 g) = 10.1 mW/g; SAR(10 g) = 5.53 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

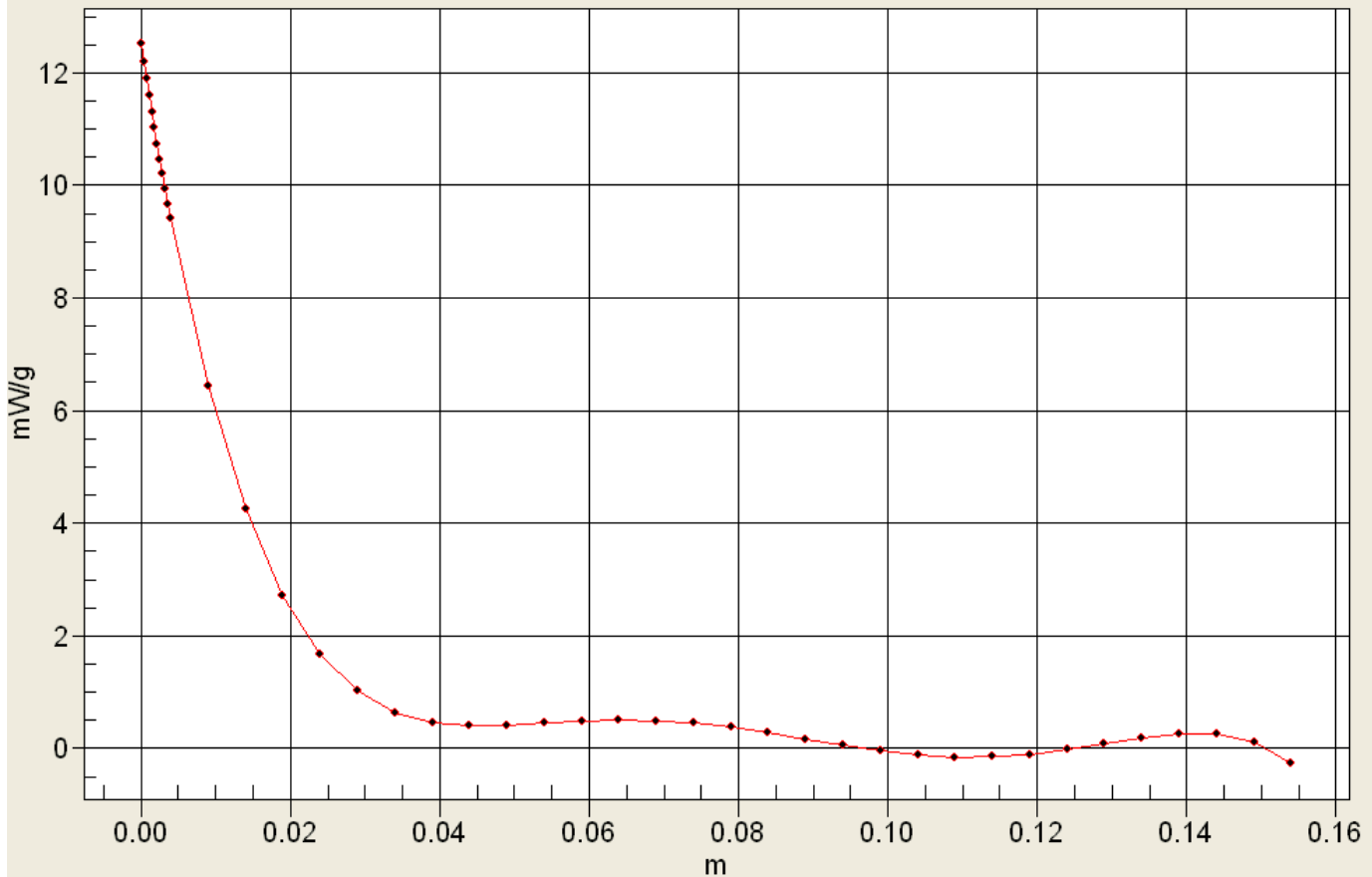
Maximum value of SAR (measured) = 10.7 mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Plot B16

Date/Time: 14/01/2015 2:03:20 PM

150 Body 14 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 14Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.8 \text{ mho/m}$; $\epsilon_r = 65$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B16 Body XL-200, 162MHz SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.83 mW/g

B16 Body XL-200, 162MHz SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

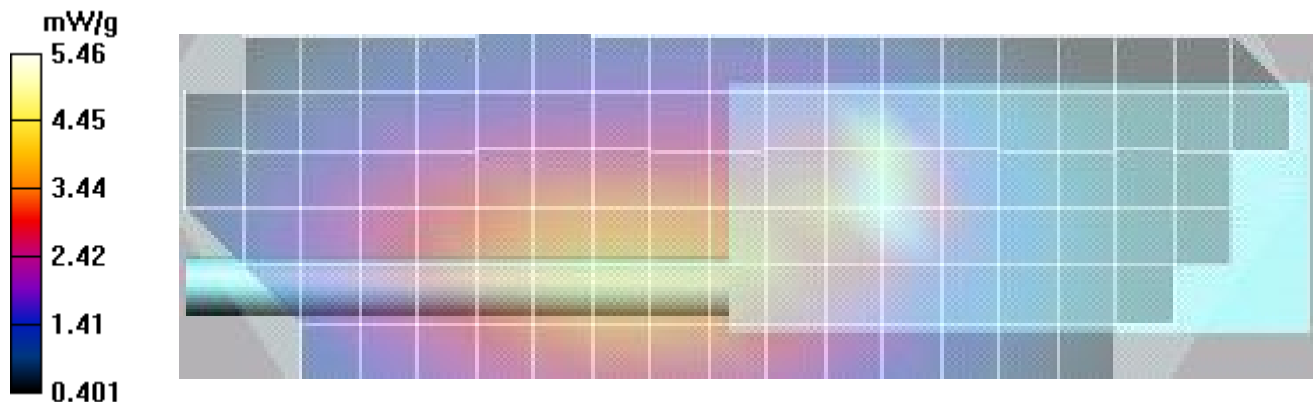
Reference Value = 66.1 V/m; Power Drift = -0.399 dB

Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.15 mW/g; SAR(10 g) = 2.97 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.46 mW/g



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Plot B17

Date/Time: 14/01/2015 2:21:43 PM

150 Body 14 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 14Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 174 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 174 \text{ MHz}$; $\sigma = 0.812 \text{ mho/m}$; $\epsilon_r = 64.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B17 Body XL-200, 174MHz SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.30 mW/g

B17 Body XL-200, 174MHz SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

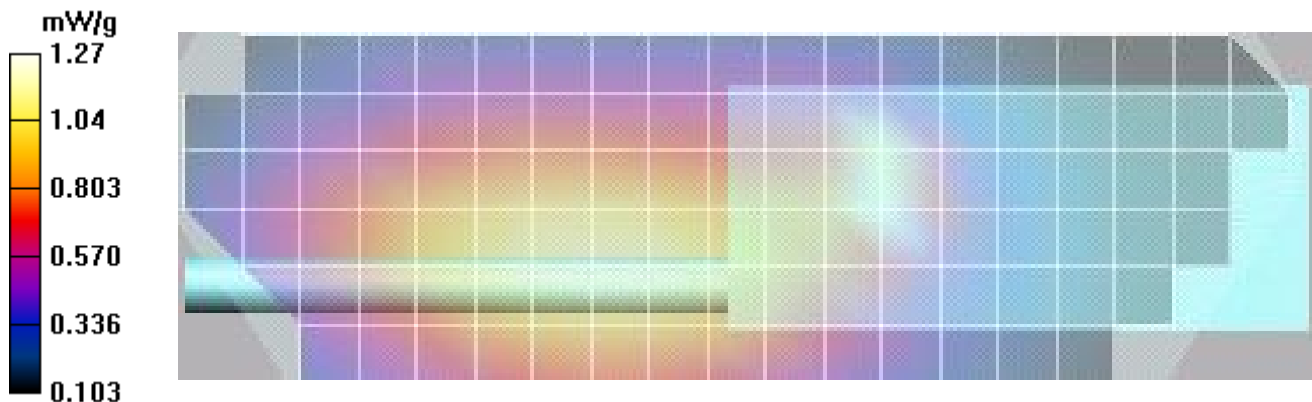
Reference Value = 35.1 V/m; Power Drift = -0.644 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.705 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.27 mW/g



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Plot B18

Date/Time: 14/01/2015 2:40:36 PM

150 Body 14 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 14Jan 2015 Ambient Temp: 25C; Fluid Temp: 22.4C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 156.8 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 156.8 \text{ MHz}$; $\sigma = 0.797 \text{ mho/m}$; $\epsilon_r = 65.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: SAM with CRP; Type: SAM;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B18 Body XL-200, 156.8MHz SCAN/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.3 mW/g

B18 Body XL-200, 156.8MHz SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

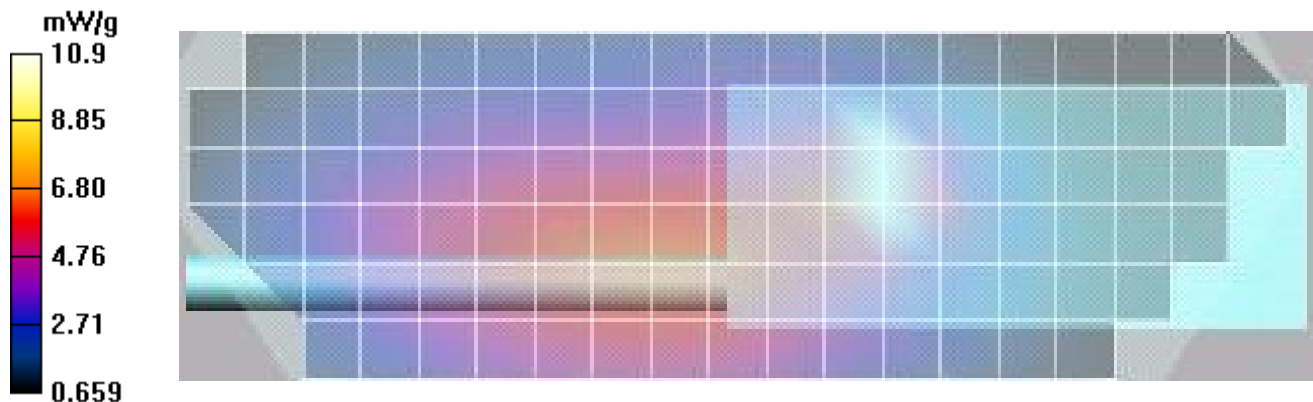
Reference Value = 85.5 V/m; Power Drift = -0.214 dB

Peak SAR (extrapolated) = 23.8 W/kg

SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.78 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 10.9 mW/g



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Plot B19

Date/Time: 16/01/2015 8:43:02 AM

150 Body 16 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 16 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 136 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 136 \text{ MHz}$; $\sigma = 0.812 \text{ mho/m}$; $\epsilon_r = 64.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B19 Body XL-200, 136MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.999 mW/g

B19 Body XL-200, 136MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

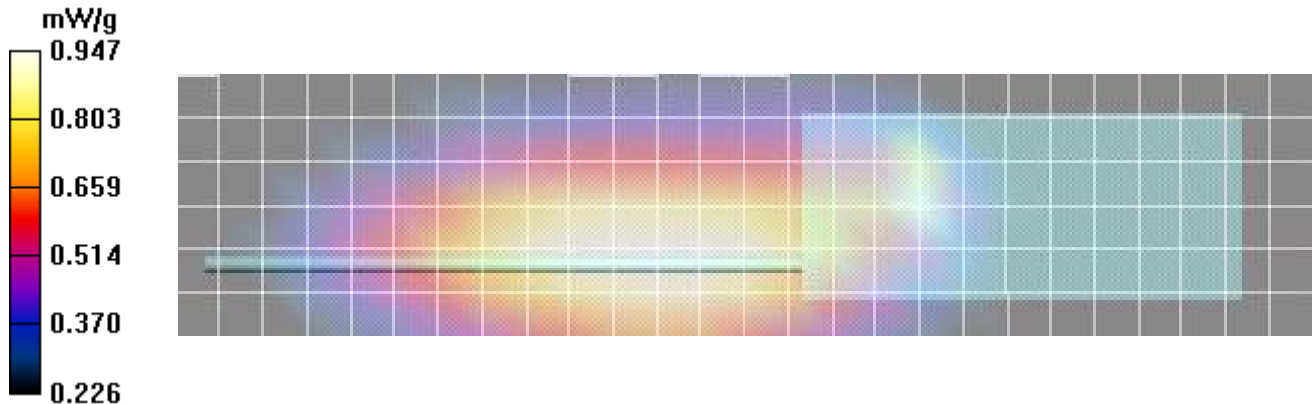
Reference Value = 30.3 V/m; Power Drift = -0.429 dB

Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.906 mW/g; SAR(10 g) = 0.699 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.947 mW/g



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Plot B20

Date/Time: 16/01/2015 9:02:05 AM

150 Body 16 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 16 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 138 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 138 \text{ MHz}$; $\sigma = 0.816 \text{ mho/m}$; $\epsilon_r = 64.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B20 Body XL-200, 138MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.706 mW/g

B20 Body XL-200, 138MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

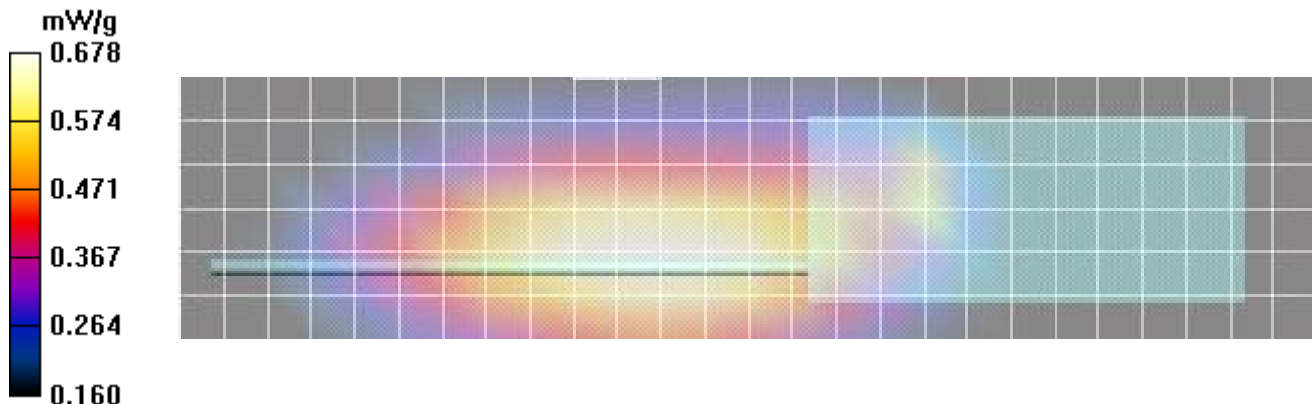
Reference Value = 25.0 V/m; Power Drift = -0.274 dB

Peak SAR (extrapolated) = 0.838 W/kg

SAR(1 g) = 0.649 mW/g; SAR(10 g) = 0.500 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.678 mW/g



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Plot B21

Date/Time: 16/01/2015 9:21:20 AM

150 Body 16 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 16 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 141 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 141 \text{ MHz}$; $\sigma = 0.822 \text{ mho/m}$; $\epsilon_r = 65.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B21 Body XL-200, 141MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.513 mW/g

B21 Body XL-200, 141MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

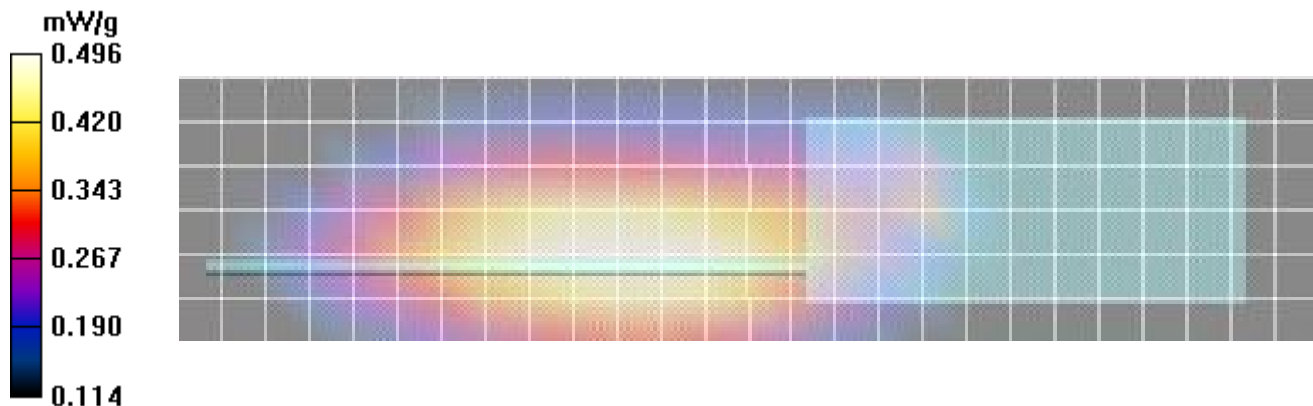
Reference Value = 20.3 V/m; Power Drift = -0.232 dB

Peak SAR (extrapolated) = 0.611 W/kg

SAR(1 g) = 0.473 mW/g; SAR(10 g) = 0.364 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.496 mW/g



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Plot B22

Date/Time: 16/01/2015 10:55:31 AM

150 Body 16 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 16 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 148 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 148 \text{ MHz}$; $\sigma = 0.836 \text{ mho/m}$; $\epsilon_r = 65.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B22 Body XL-200, 148MHz 4000-1 SYS 2/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.64 mW/g

B22 Body XL-200, 148MHz 4000-1 SYS 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

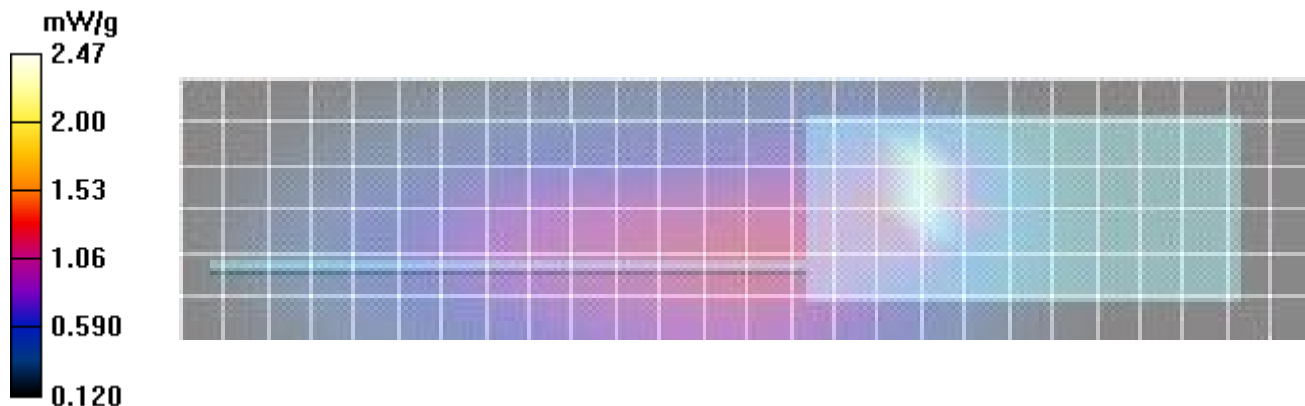
Reference Value = 36.1 V/m; Power Drift = -0.542 dB

Peak SAR (extrapolated) = 6.28 W/kg

SAR(1 g) = 2.45 mW/g; SAR(10 g) = 1.25 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.47 mW/g



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Plot B23

Date/Time: 16/01/2015 9:59:30 AM

150 Body 16 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 16 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 156.8 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 156.8 \text{ MHz}$; $\sigma = 0.84 \text{ mho/m}$; $\epsilon_r = 63.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B23 Body XL-200, 156.8MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.82 mW/g

B23 Body XL-200, 156.8MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

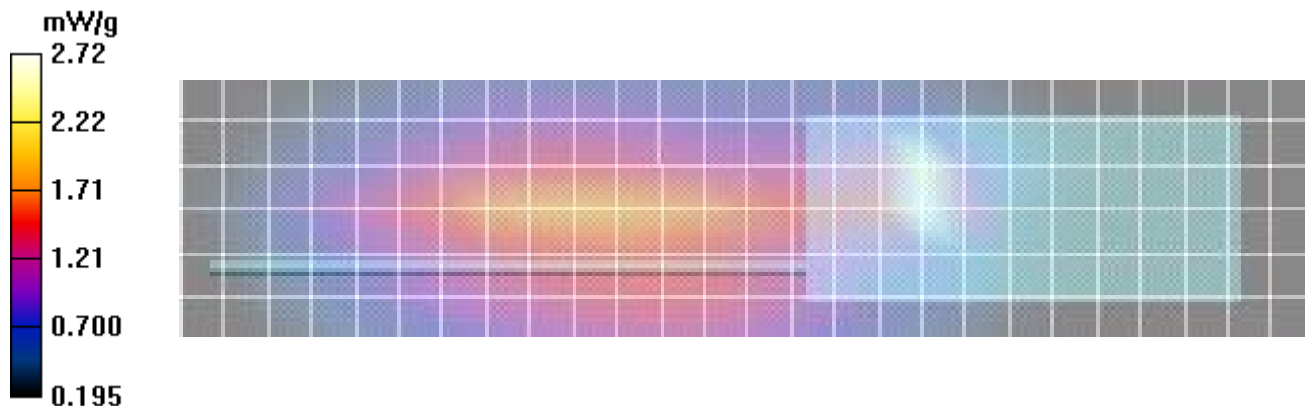
Reference Value = 34.8 V/m; Power Drift = 1.49 dB

Peak SAR (extrapolated) = 5.95 W/kg

SAR(1 g) = 2.55 mW/g; SAR(10 g) = 1.41 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

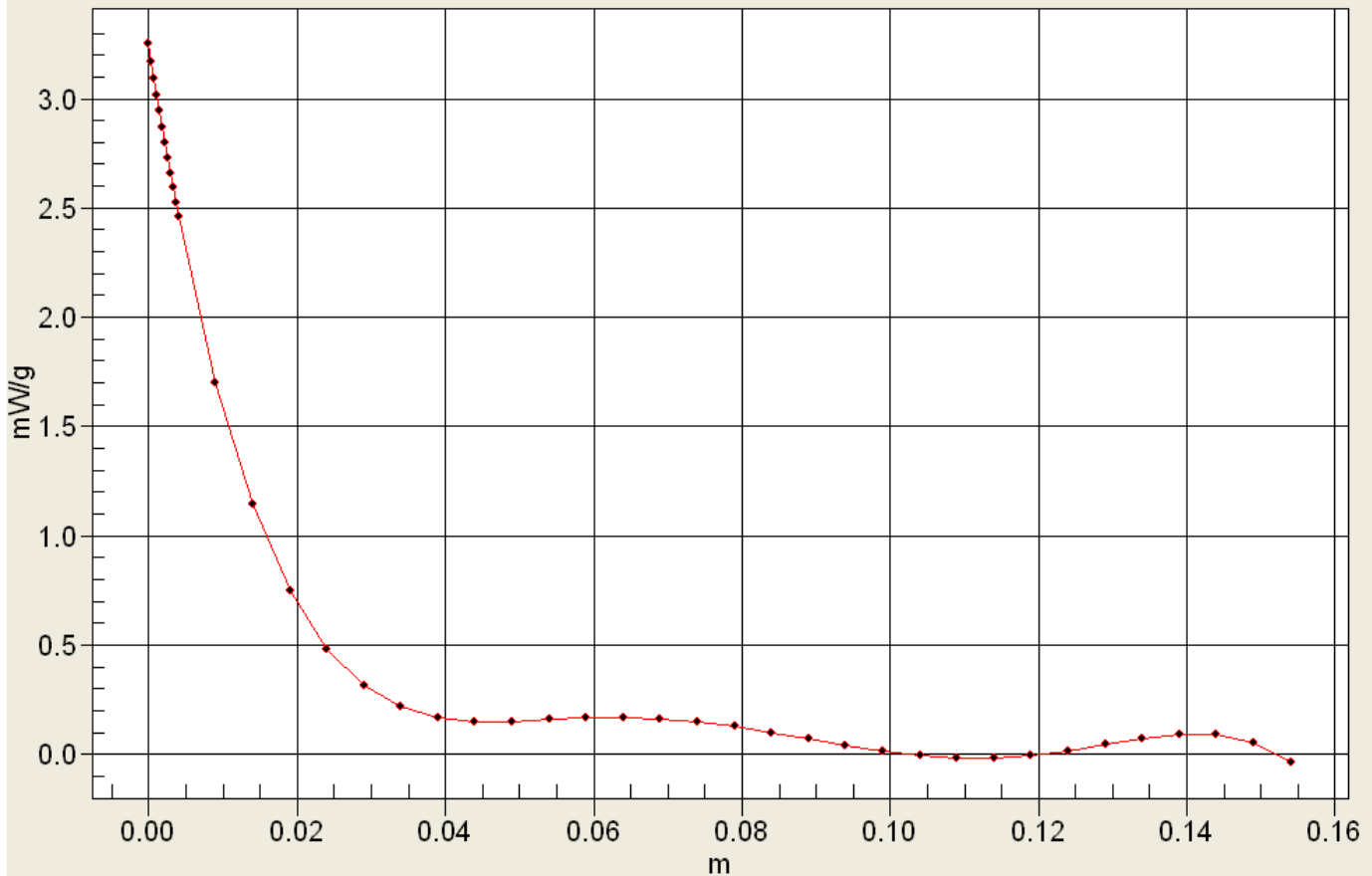
Maximum value of SAR (measured) = 2.72 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Plot B24

Date/Time: 16/01/2015 10:18:42 AM

150 Body 16 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 16 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 162 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 162 \text{ MHz}$; $\sigma = 0.836 \text{ mho/m}$; $\epsilon_r = 62.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B24 Body XL-200, 162MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.82 mW/g

B24 Body XL-200, 162MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

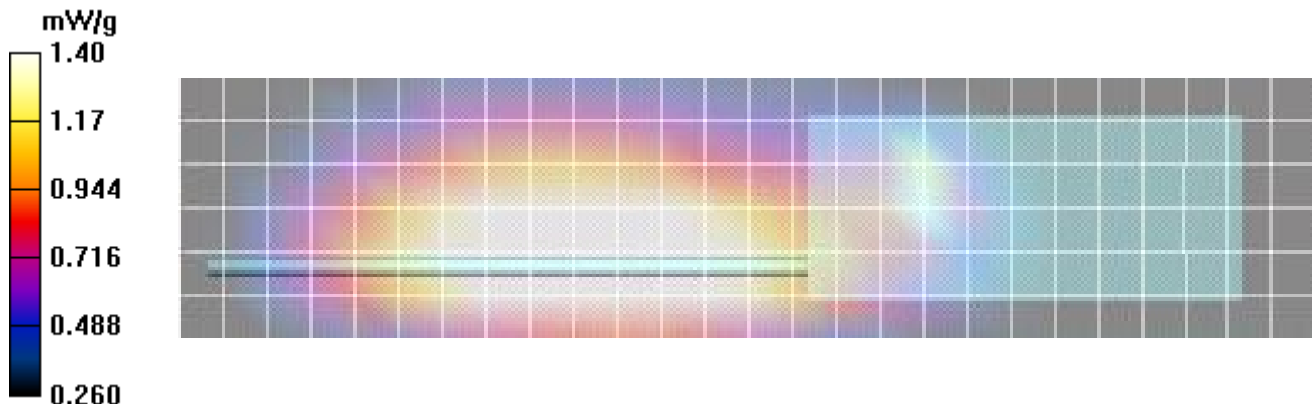
Reference Value = 27.8 V/m; Power Drift = -0.460 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.874 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.40 mW/g



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Plot B25

Date/Time: 16/01/2015 10:37:16 AM

150 Body 16 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 16 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 174 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 174 \text{ MHz}$; $\sigma = 0.828 \text{ mho/m}$; $\epsilon_r = 64.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B25 Body XL-200, 174MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.480 mW/g

B25 Body XL-200, 174MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

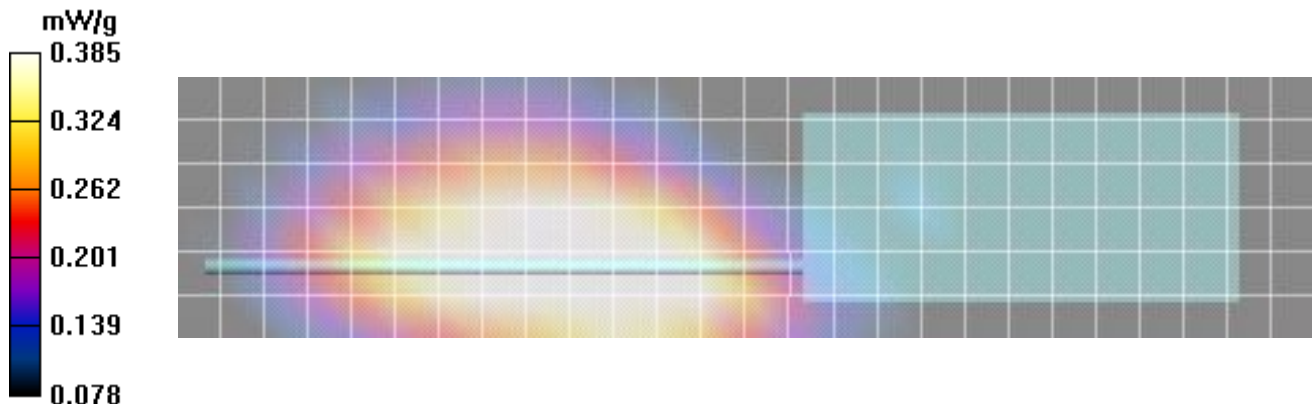
Reference Value = 11.8 V/m; Power Drift = -1.32 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.366 mW/g; SAR(10 g) = 0.276 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.385 mW/g



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Plot B26

Date/Time: 16/01/2015 11:16:11 AM

150 Body 16 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 16 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 156.8 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used (interpolated): $f = 156.8 \text{ MHz}$; $\sigma = 0.84 \text{ mho/m}$; $\epsilon_r = 63.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B26 Body XL-200, 156.8MHz 4000-1 SCAN/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.65 mW/g

B26 Body XL-200, 156.8MHz 4000-1 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

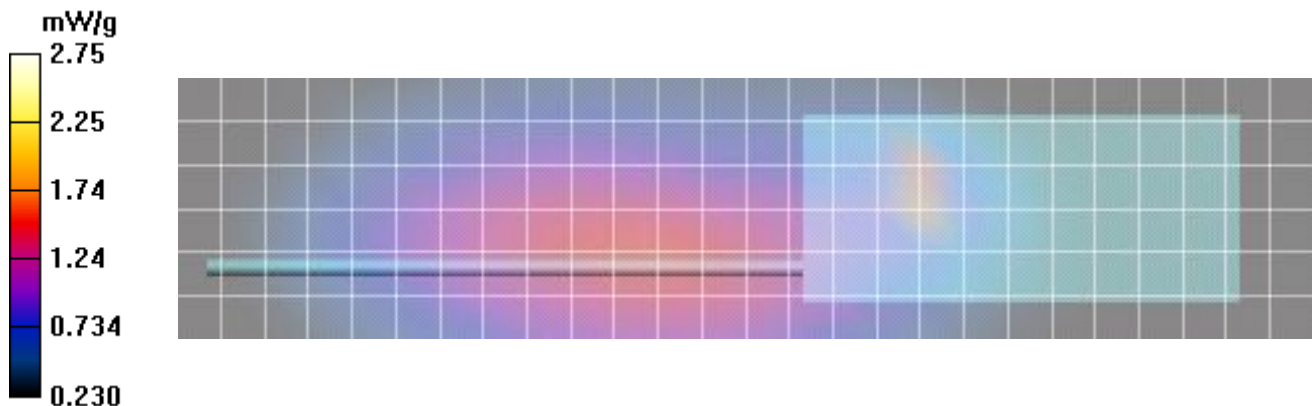
Reference Value = 36.3 V/m; Power Drift = 1.83 dB

Peak SAR (extrapolated) = 5.69 W/kg

SAR(1 g) = 2.7 mW/g; SAR(10 g) = 1.54 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.75 mW/g



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Plot F34

Date/Time: 19/01/2015 9:11:14 AM

835 Head 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 768 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 768 \text{ MHz}$; $\sigma = 0.806 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F34 Head XL-200, 768MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.54 mW/g

F34 Head XL-200, 768MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

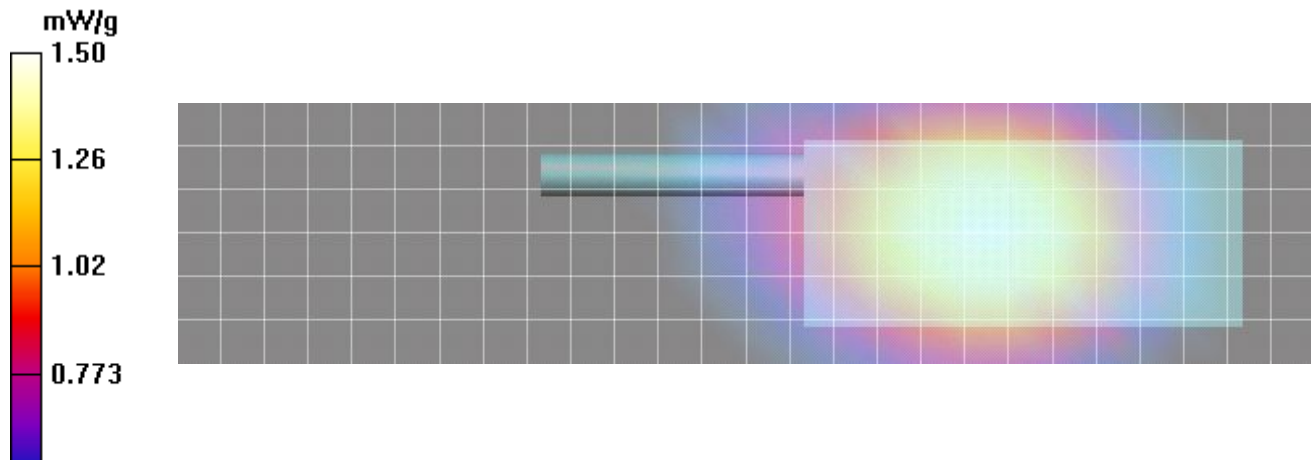
Reference Value = 33.3 V/m; Power Drift = -0.599 dB

Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 g) = 1.43 mW/g; SAR(10 g) = 1.1 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.50 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot F35

Date/Time: 19/01/2015 9:33:13 AM

835 Head 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.821 \text{ mho/m}$; $\epsilon_r = 43.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F35 Head XL-200, 776MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.44 mW/g

F35 Head XL-200, 776MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

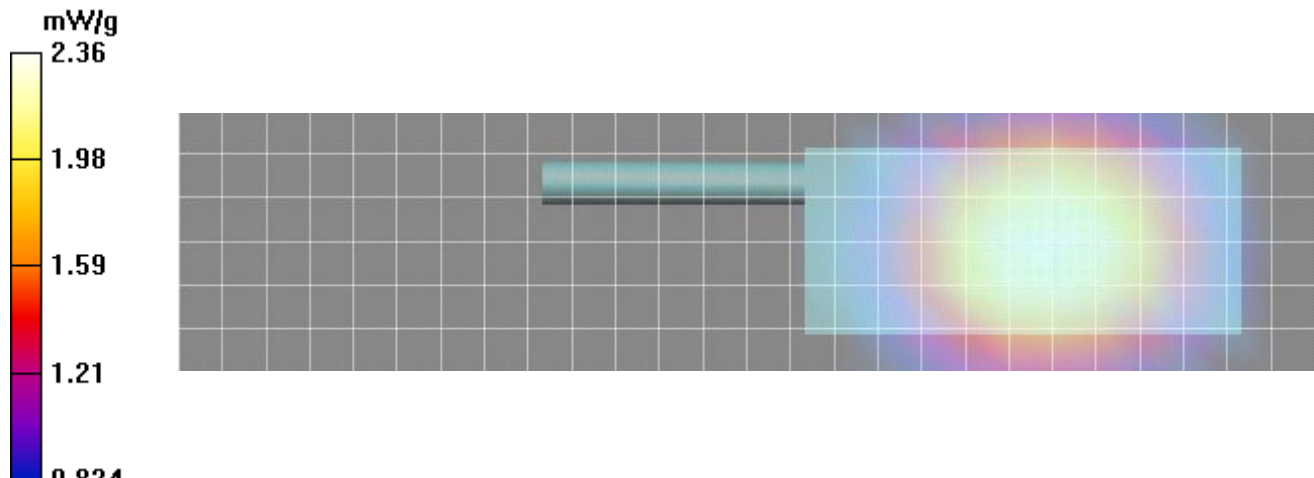
Reference Value = 24.8 V/m; Power Drift = -0.411 dB

Peak SAR (extrapolated) = 2.83 W/kg

SAR(1 g) = 2.25 mW/g; SAR(10 g) = 1.71 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

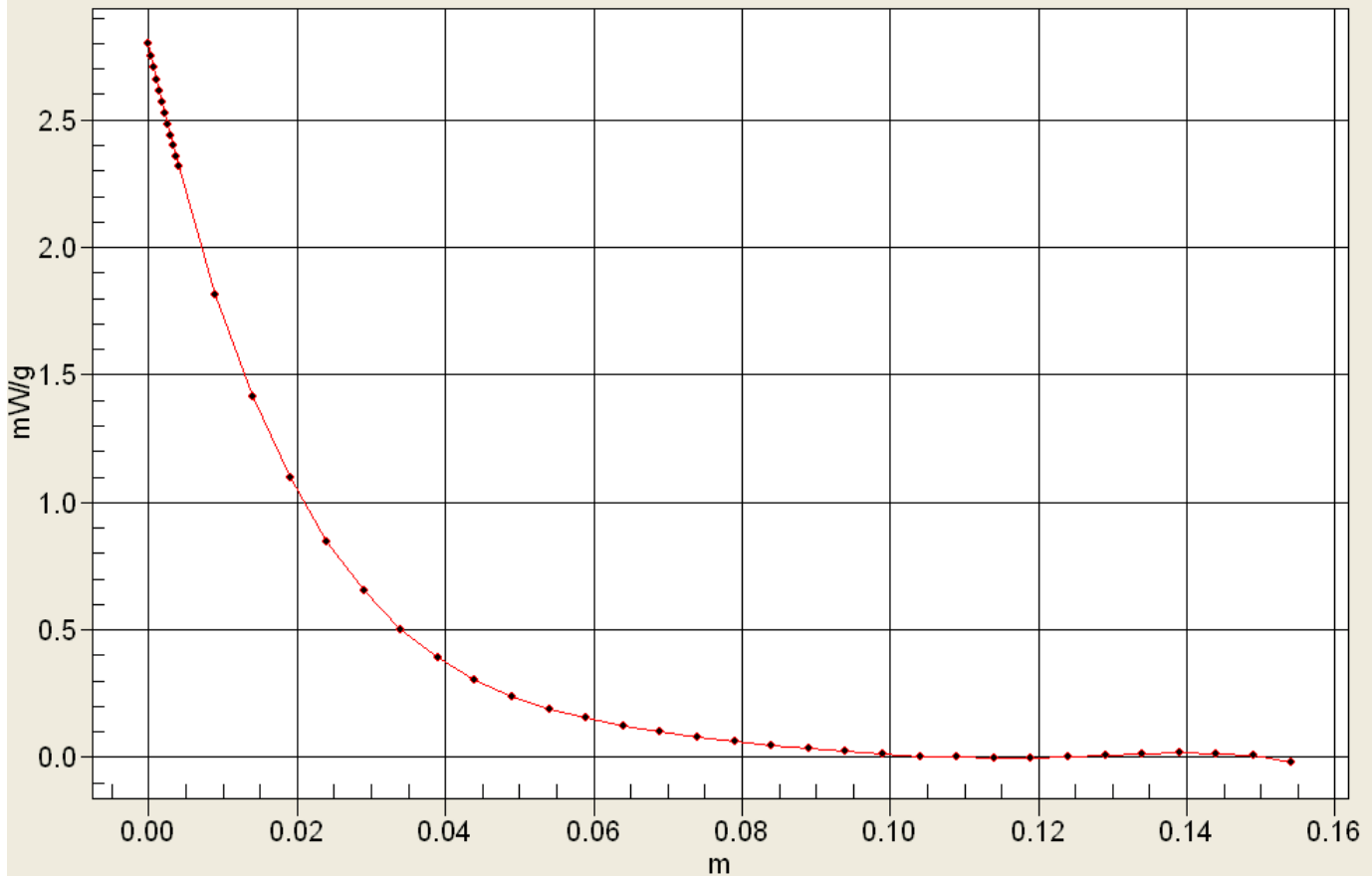
Maximum value of SAR (measured) = 2.36 mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Plot F36

Date/Time: 19/01/2015 9:53:22 AM

835 Head 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: **Not Specified**

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.851 \text{ mho/m}$; $\epsilon_r = 43$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F36 Head XL-200, 806MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.11 mW/g

F36 Head XL-200, 806MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

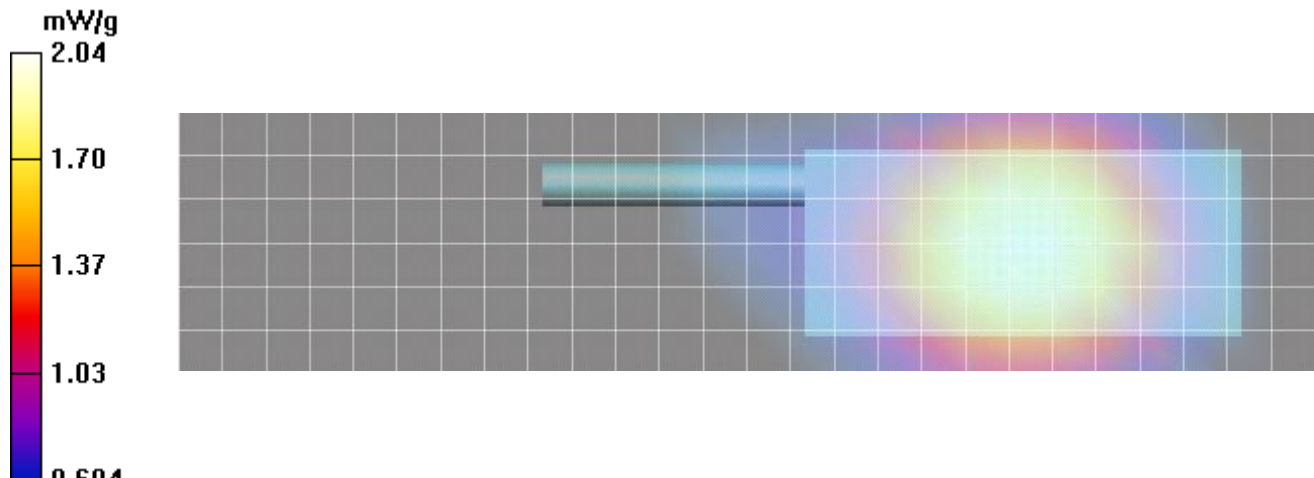
Reference Value = 30.2 V/m; Power Drift = -0.489 dB

Peak SAR (extrapolated) = 2.47 W/kg

SAR(1 g) = 1.94 mW/g; SAR(10 g) = 1.47 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.04 mW/g



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Plot F37

Date/Time: 19/01/2015 10:13:12 AM

835 Head 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.23, 8.23, 8.23); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F37 Head XL-200, 851MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.04 mW/g

F37 Head XL-200, 851MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

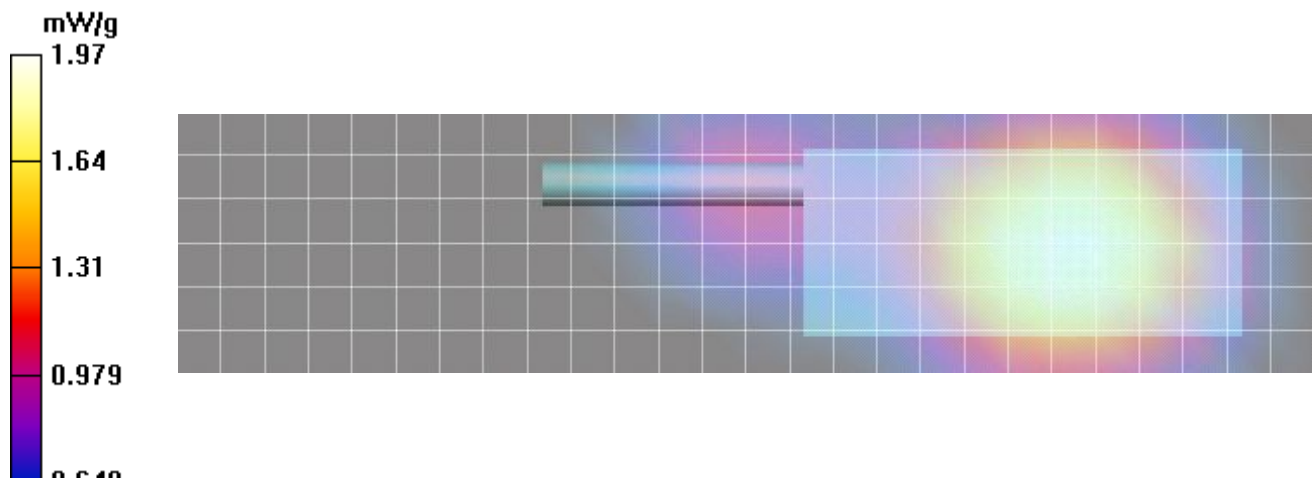
Reference Value = 30.9 V/m; Power Drift = -0.354 dB

Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 1.87 mW/g; SAR(10 g) = 1.4 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.97 mW/g



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Plot F38

Date/Time: 19/01/2015 10:32:26 AM

835 Head 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 856 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 856 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.23, 8.23, 8.23); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F38 Head XL-200, 856MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.02 mW/g

F38 Head XL-200, 856MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

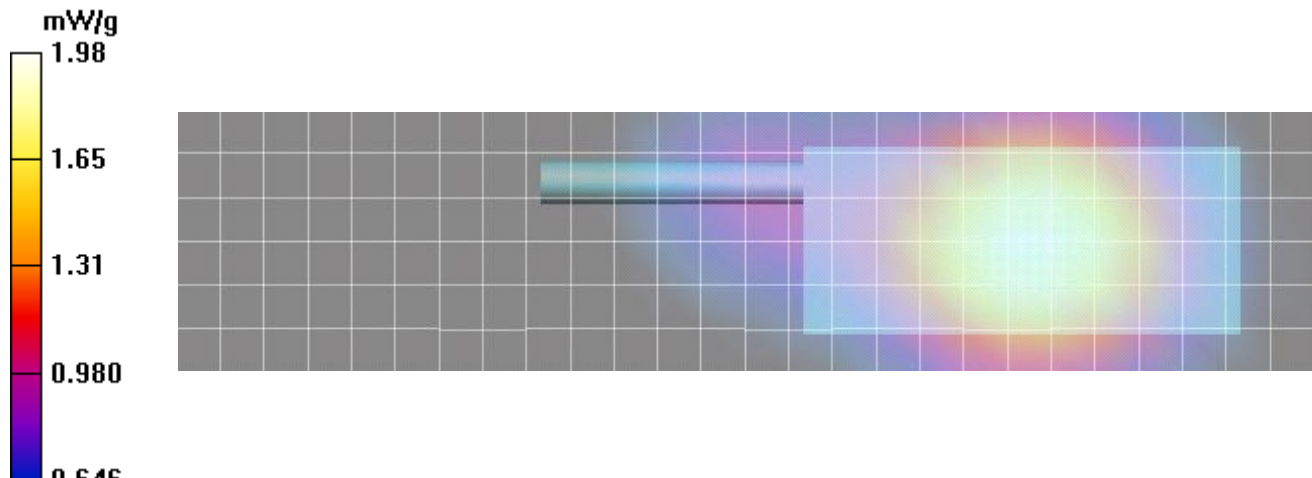
Reference Value = 30.8 V/m; Power Drift = -0.370 dB

Peak SAR (extrapolated) = 2.42 W/kg

SAR(1 g) = 1.88 mW/g; SAR(10 g) = 1.4 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.98 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot F39

Date/Time: 19/01/2015 10:52:47 AM

835 Head 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 861 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 861 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.09, 8.09, 8.09); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F39 Head XL-200, 861MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.92 mW/g

F39 Head XL-200, 861MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

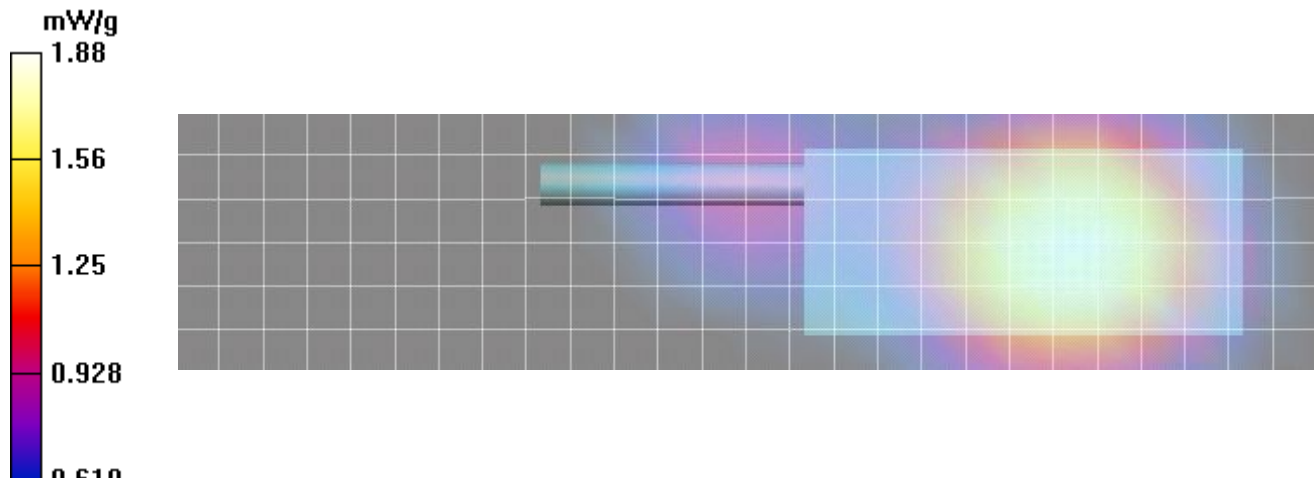
Reference Value = 28.2 V/m; Power Drift = -0.169 dB

Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 1.79 mW/g; SAR(10 g) = 1.33 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.88 mW/g



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Plot F40

Date/Time: 19/01/2015 11:20:44 AM

835 Head 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: **Not Specified**

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.821 \text{ mho/m}$; $\epsilon_r = 43.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F40 Head XL-200, 776MHz 506-2 SCAN/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.20 mW/g

F40 Head XL-200, 776MHz 506-2 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

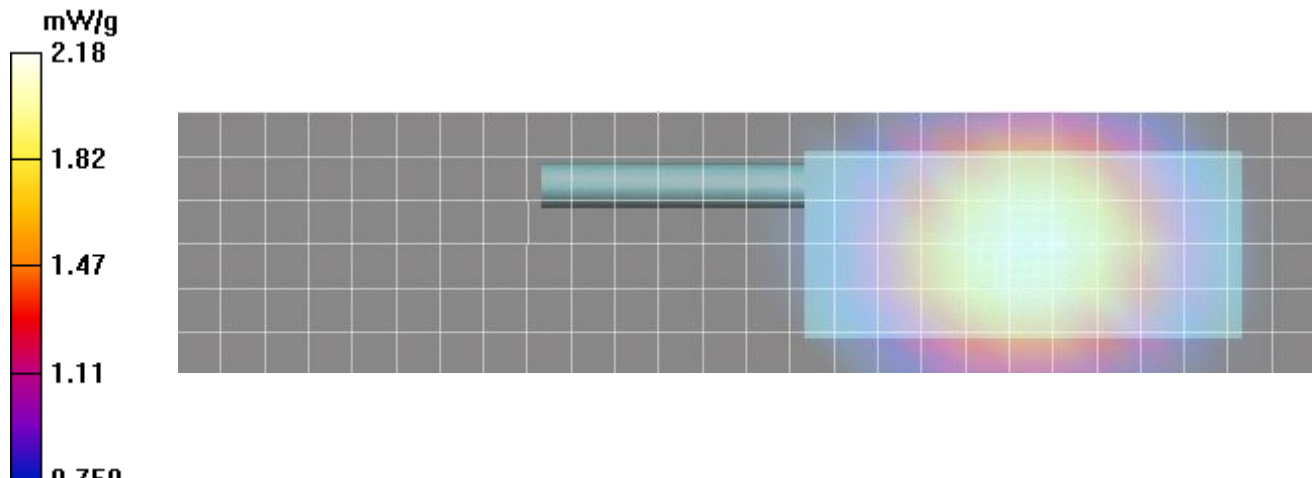
Reference Value = 27.1 V/m; Power Drift = -0.429 dB

Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 2.07 mW/g; SAR(10 g) = 1.58 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.18 mW/g



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Plot F41

Date/Time: 19/01/2015 12:11:17 PM

835 Head (506-1) 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 768 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 768 \text{ MHz}$; $\sigma = 0.806 \text{ mho/m}$; $\epsilon_r = 43.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F41 Head XL-200, 768MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.02 mW/g

F41 Head XL-200, 768MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

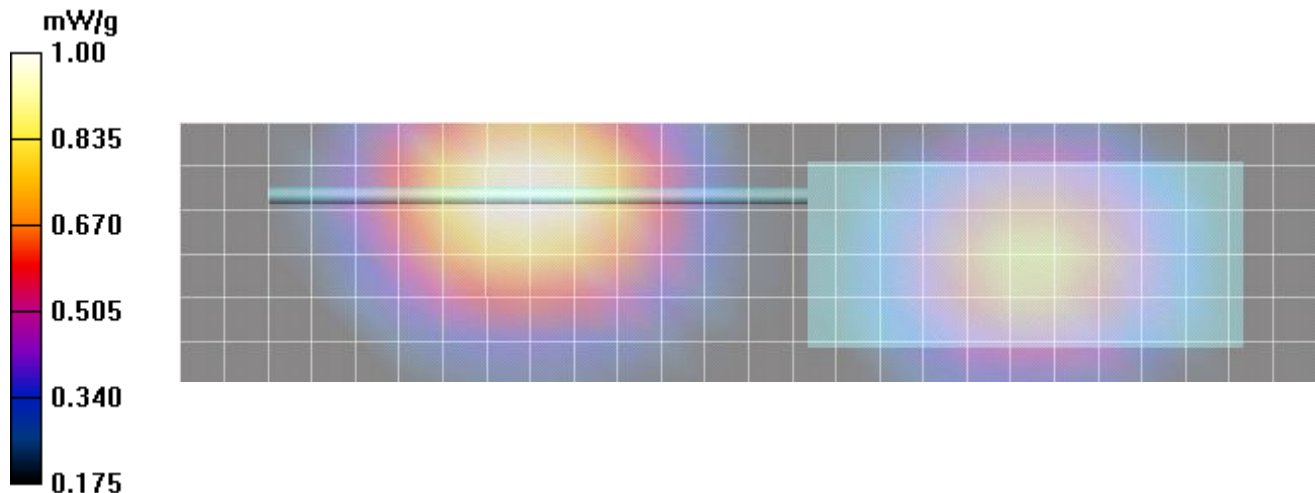
Reference Value = 14.7 V/m; Power Drift = -0.725 dB

Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.950 mW/g; SAR(10 g) = 0.713 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.00 mW/g



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Plot F42

Date/Time: 19/01/2015 12:32:49 PM

835 Head (506-1) 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.821 \text{ mho/m}$; $\epsilon_r = 43.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F42 Head XL-200, 776MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.15 mW/g

F42 Head XL-200, 776MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

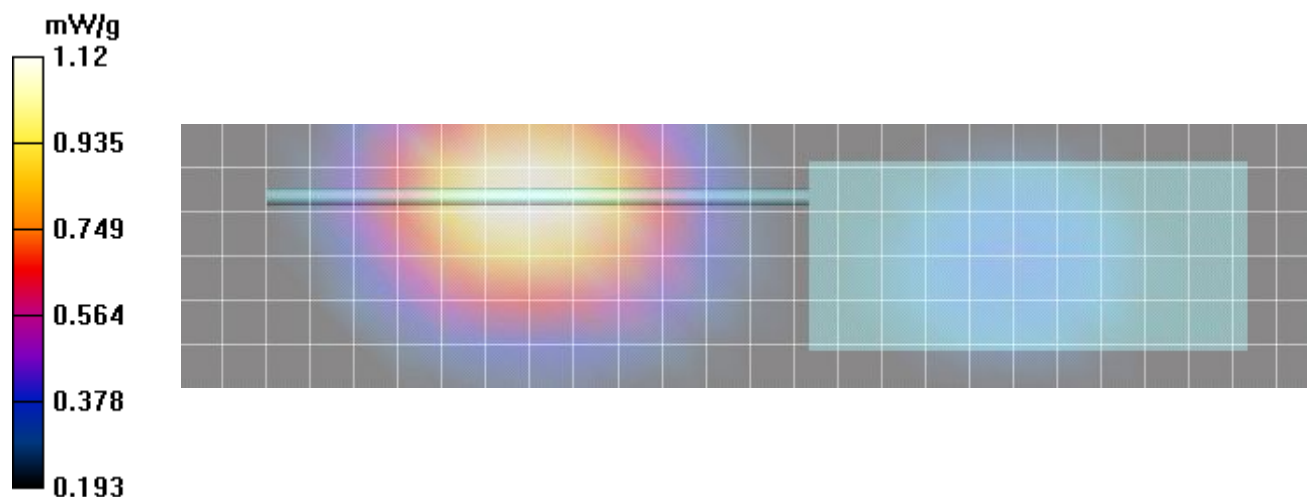
Reference Value = 15.5 V/m; Power Drift = -0.676 dB

Peak SAR (extrapolated) = 1.38 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.800 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.12 mW/g



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Plot F43

Date/Time: 19/01/2015 12:52:25 PM

835 Head (506-1) 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.851 \text{ mho/m}$; $\epsilon_r = 43$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F43 Head XL-200, 806MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.42 mW/g

F43 Head XL-200, 806MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

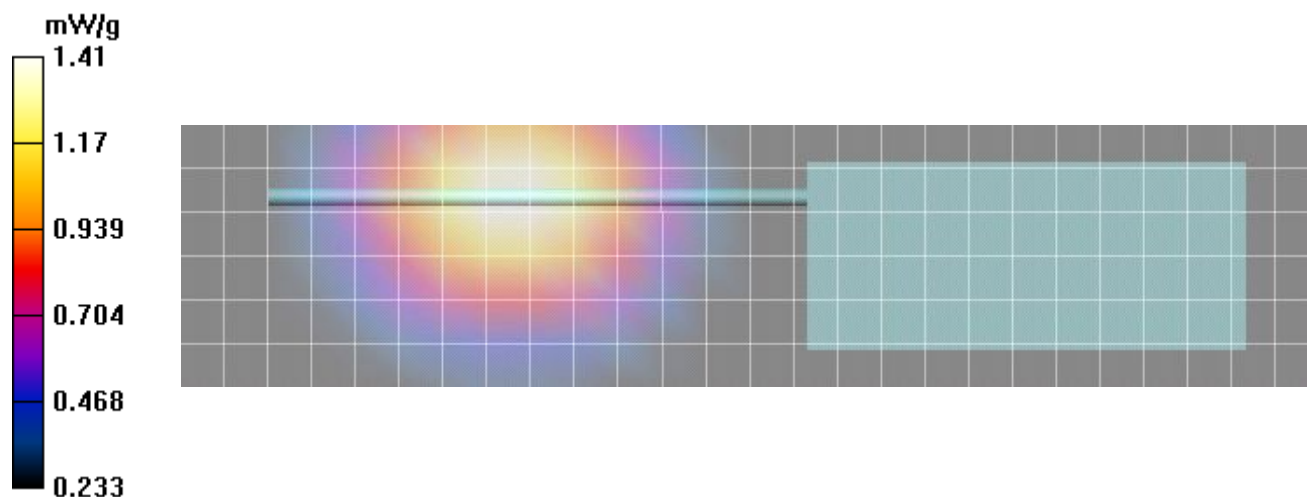
Reference Value = 8.24 V/m; Power Drift = -0.599 dB

Peak SAR (extrapolated) = 1.74 W/kg

SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.995 mW/g

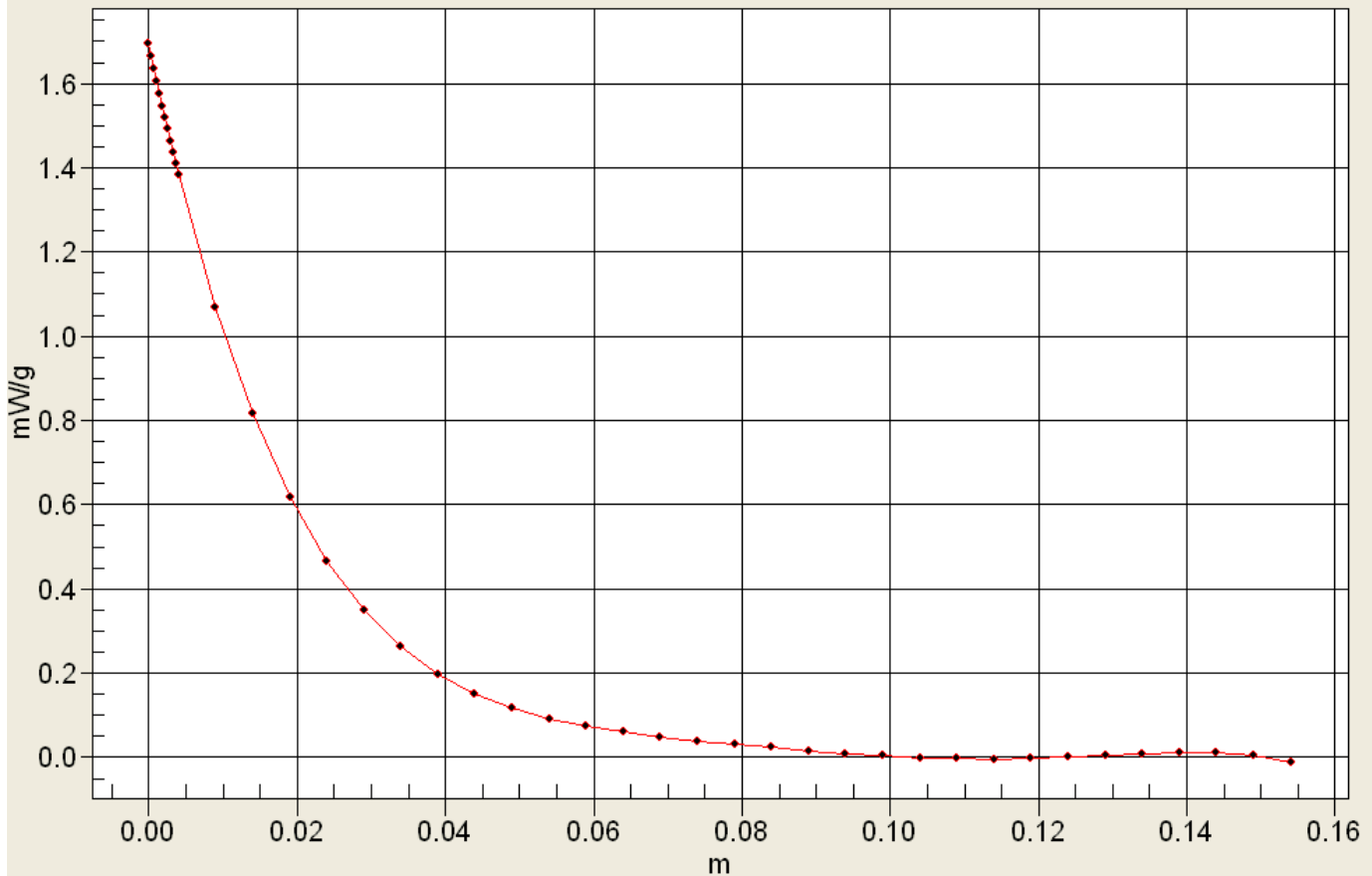
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.41 mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Plot F44

Date/Time: 19/01/2015 1:18:55 PM

835 Head (506-1) 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.23, 8.23, 8.23); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F44 Head XL-200, 851MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.23 mW/g

F44 Head XL-200, 851MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

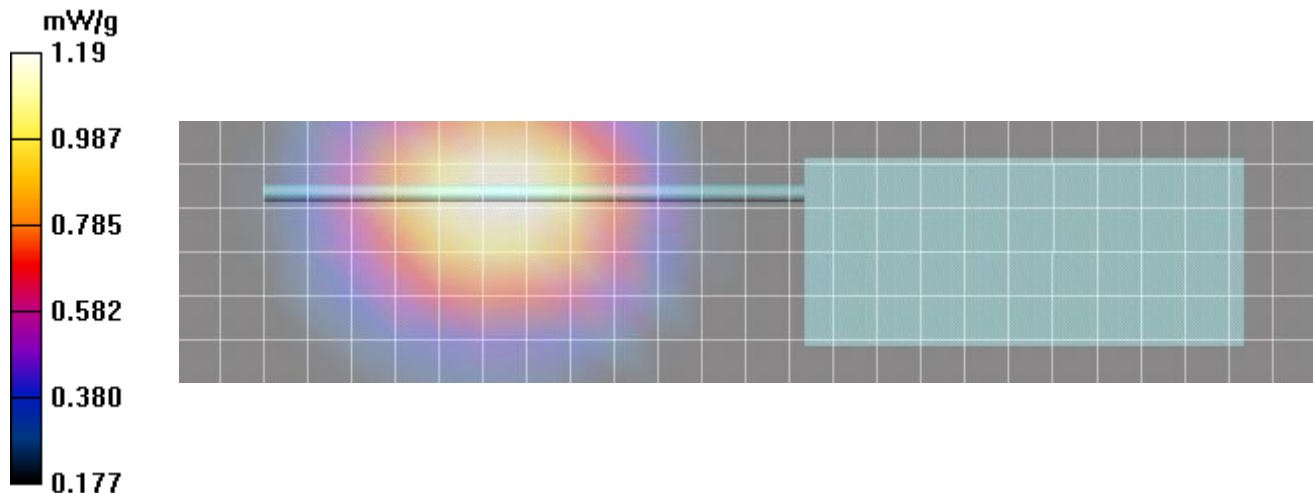
Reference Value = 8.36 V/m; Power Drift = -0.400 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.830 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.19 mW/g



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Plot F45

Date/Time: 19/01/2015 1:37:29 PM

835 Head (506-1) 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 856 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 856 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.23, 8.23, 8.23); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F45 Head XL-200, 856MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.09 mW/g

F45 Head XL-200, 856MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

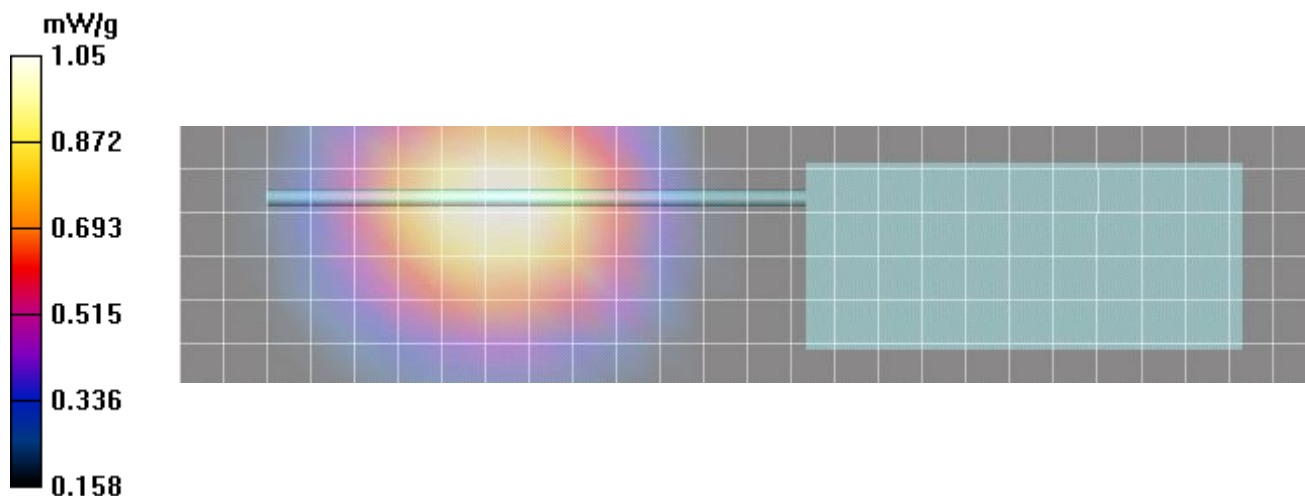
Reference Value = 8.05 V/m; Power Drift = -0.674 dB

Peak SAR (extrapolated) = 1.29 W/kg

SAR(1 g) = 0.993 mW/g; SAR(10 g) = 0.731 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.05 mW/g



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Plot F46

Date/Time: 19/01/2015 1:58:21 PM

835 Head (506-1) 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 861 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 861 \text{ MHz}$; $\sigma = 0.9 \text{ mho/m}$; $\epsilon_r = 42.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.09, 8.09, 8.09); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F46 Head XL-200, 861MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.922 mW/g

F46 Head XL-200, 861MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

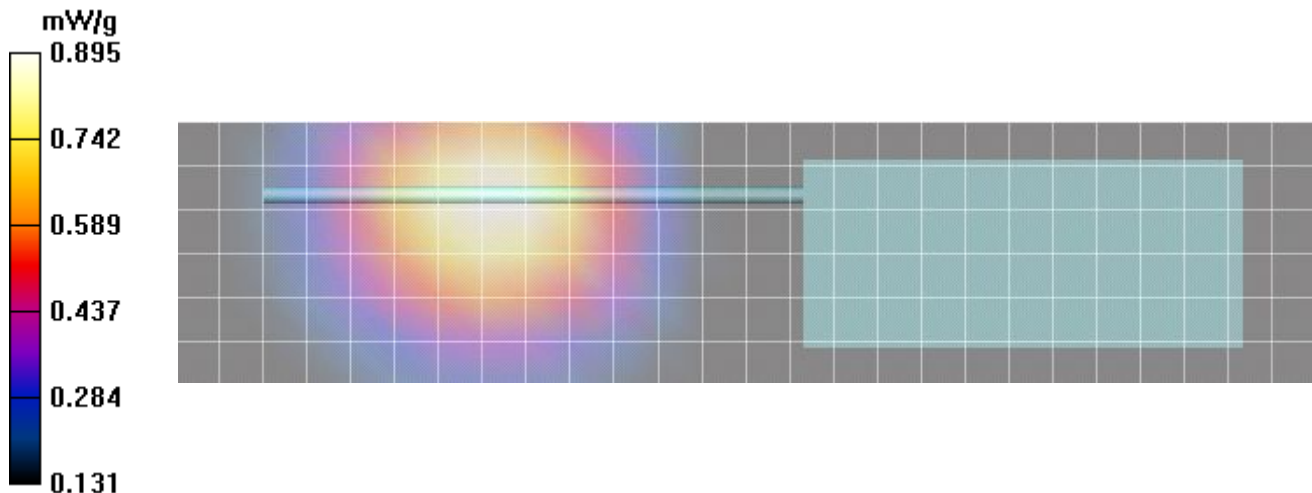
Reference Value = 7.08 V/m; Power Drift = -0.389 dB

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.851 mW/g; SAR(10 g) = 0.624 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.895 mW/g



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Plot F47

Date/Time: 19/01/2015 2:17:49 PM

835 Head (506-1) 19 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 19 Jan 2015 Ambient Temp: 24C; Fluid Temp: 21.7C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.851 \text{ mho/m}$; $\epsilon_r = 43$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.55, 8.55, 8.55); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

F47 Head XL-200, 806MHz 506-1 SCAN/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.38 mW/g

F47 Head XL-200, 806MHz 506-1 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

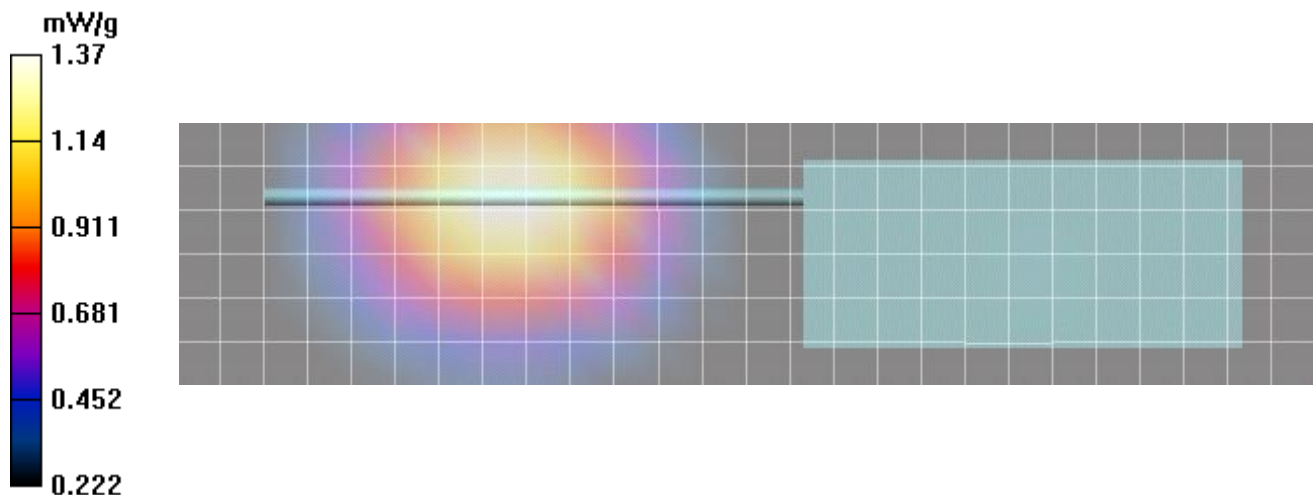
Reference Value = 8.77 V/m; Power Drift = -0.563 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 1.3 mW/g; SAR(10 g) = 0.966 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.37 mW/g



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Plot B27

Date/Time: 20/01/2015 6:25:29 PM

835 Body 20 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 20 Jan 2015 Ambient Temp: 27C; Fluid Temp: 24.4C; Humidity: 12%

Procedure Notes:

Communication System: CW

Frequency: 768 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 768 \text{ MHz}$; $\sigma = 0.916 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B27 Body XL-200, 768MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.73 mW/g

B27 Body XL-200, 768MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

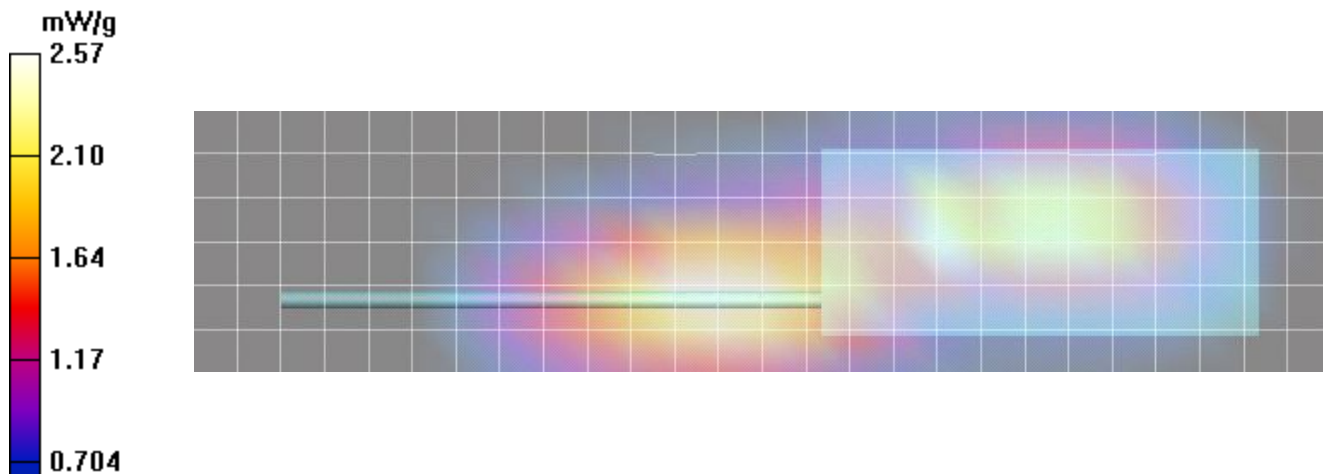
Reference Value = 43.0 V/m; Power Drift = -0.399 dB

Peak SAR (extrapolated) = 4.06 W/kg

SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.47 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.57 mW/g



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Plot B28

Date/Time: 20/01/2015 6:46:43 PM

835 Body 20 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 20 Jan 2015 Ambient Temp: 27C; Fluid Temp: 24.4C; Humidity: 12%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B28 Body XL-200, 776MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.10 mW/g

B28 Body XL-200, 776MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

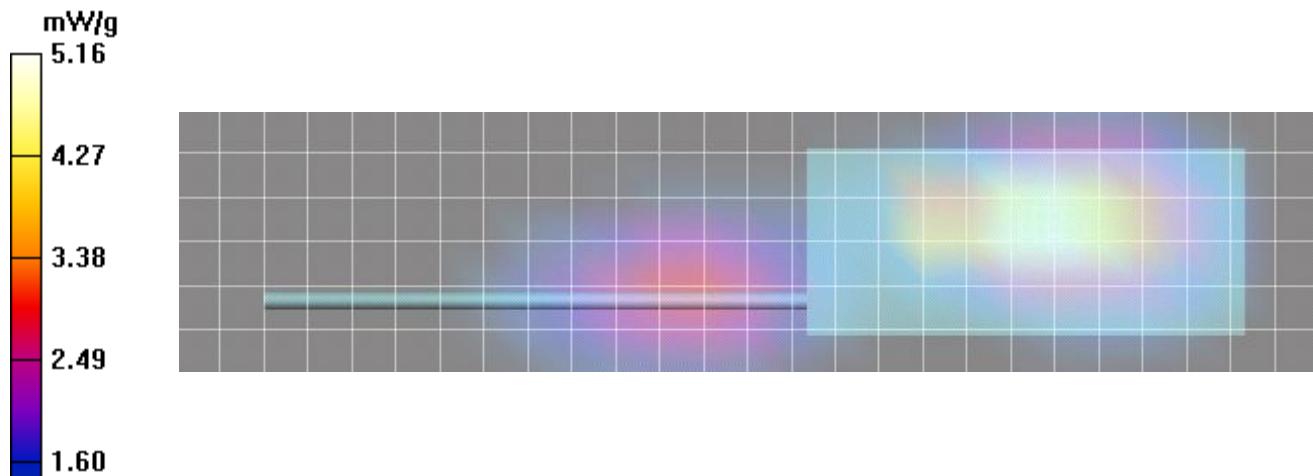
Reference Value = 40.4 V/m; Power Drift = -0.499 dB

Peak SAR (extrapolated) = 6.37 W/kg

SAR(1 g) = 4.89 mW/g; SAR(10 g) = 3.54 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

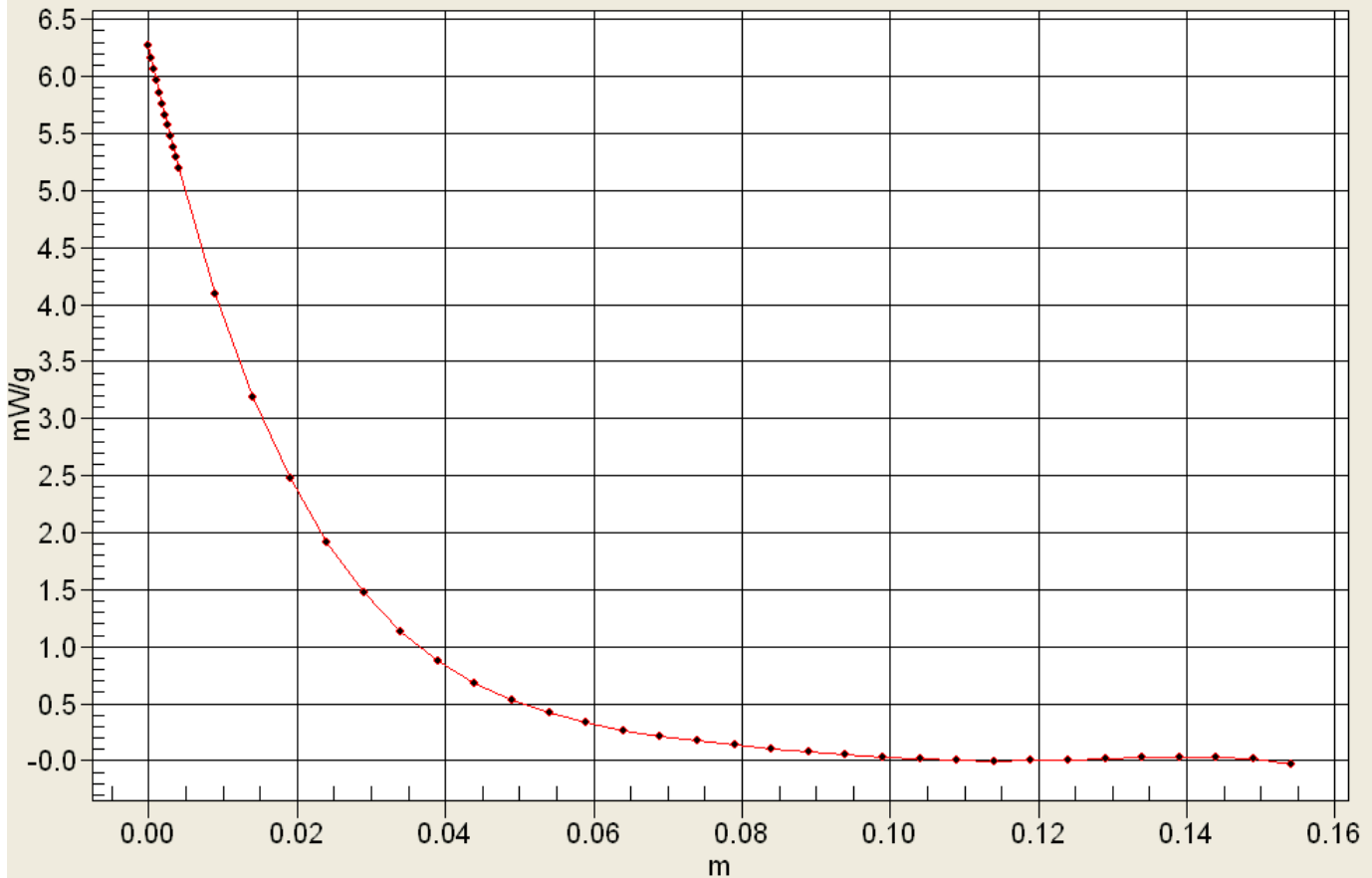
Maximum value of SAR (measured) = 5.16 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Plot B29

Date/Time: 20/01/2015 7:06:57 PM

835 Body 20 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 20 Jan 2015 Ambient Temp: 27C; Fluid Temp: 24.4C; Humidity: 12%

Procedure Notes:

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B29 Body XL-200, 806MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.99 mW/g

B29 Body XL-200, 806MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

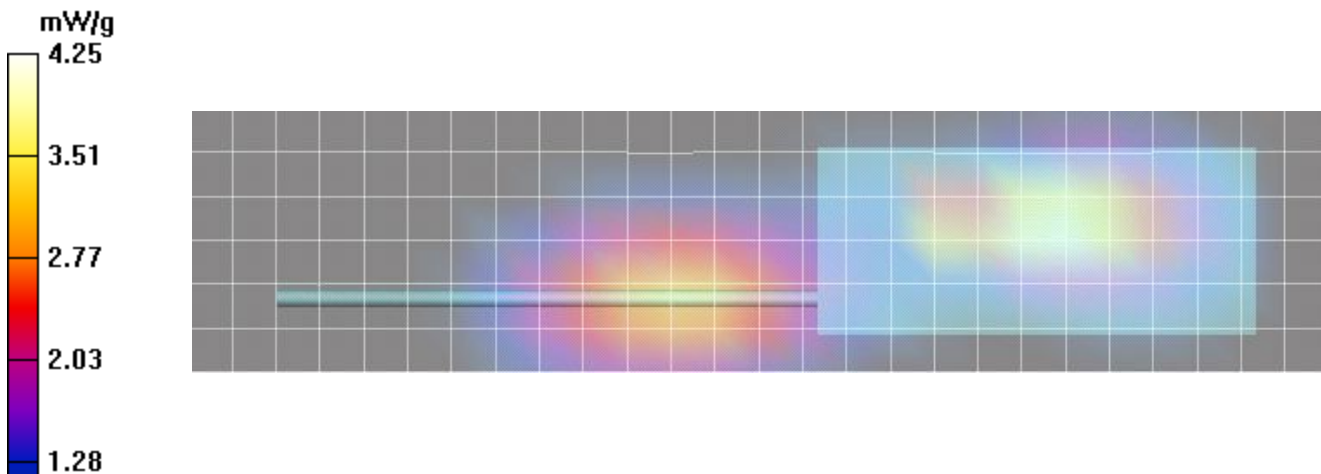
Reference Value = 40.1 V/m; Power Drift = -0.351 dB

Peak SAR (extrapolated) = 5.32 W/kg

SAR(1 g) = 4.01 mW/g; SAR(10 g) = 2.84 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.25 mW/g



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Plot B30

Date/Time: 21/01/2015 12:08:34 PM

835 Body 21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.11, 8.11, 8.11); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B30 Body XL-200, 851MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.33 mW/g

B30 Body XL-200, 851MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

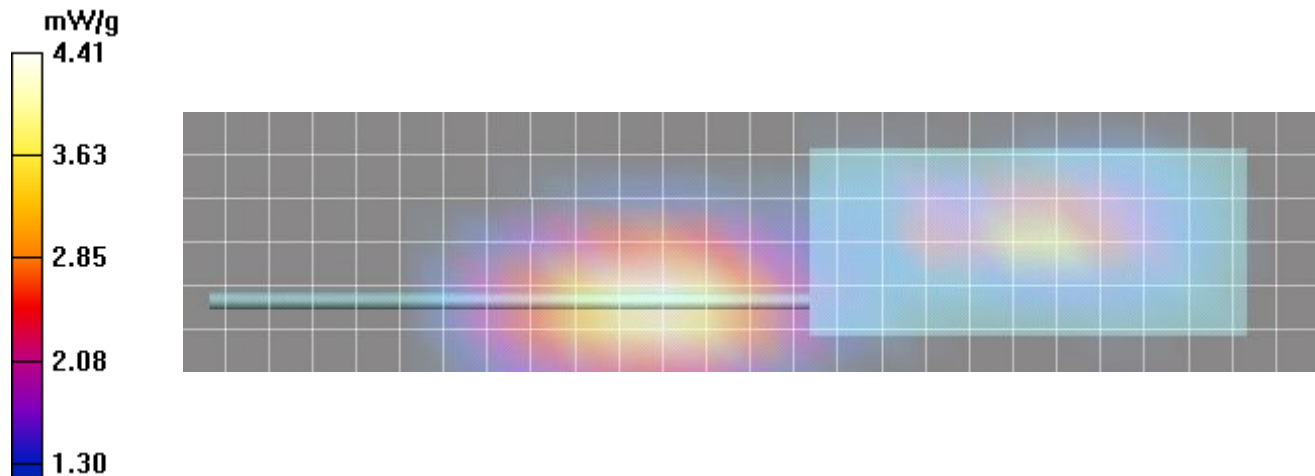
Reference Value = 38.5 V/m; Power Drift = -0.562 dB

Peak SAR (extrapolated) = 5.66 W/kg

SAR(1 g) = 4.13 mW/g; SAR(10 g) = 2.9 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.41 mW/g



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Plot B31

Date/Time: 21/01/2015 12:27:27 PM

835 Body 21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 856 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 856 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.11, 8.11, 8.11); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B31 Body XL-200, 856MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.01 mW/g

B31 Body XL-200, 856MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

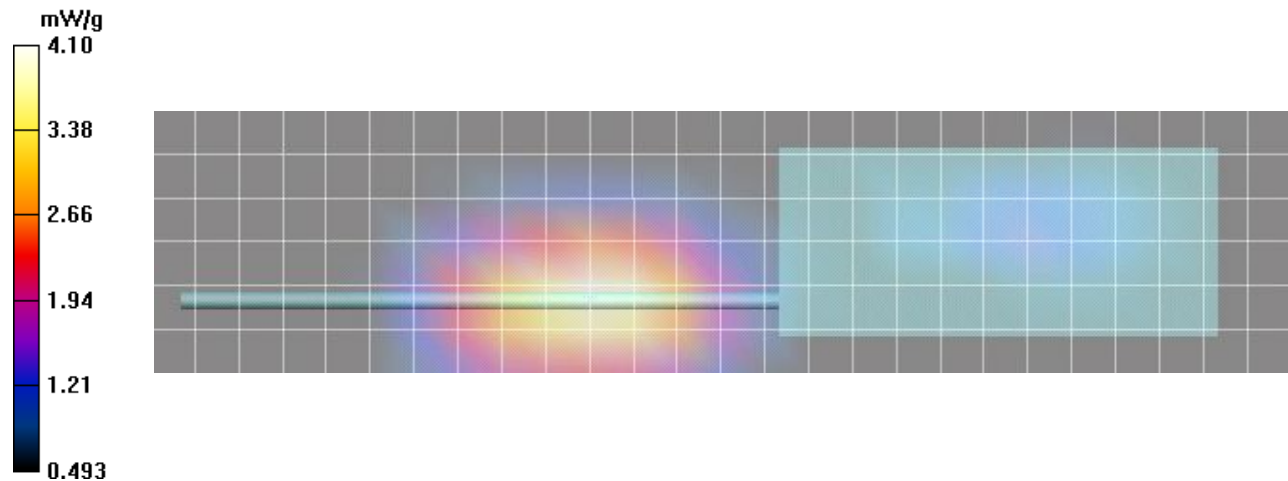
Reference Value = 27.9 V/m; Power Drift = -0.377 dB

Peak SAR (extrapolated) = 5.22 W/kg

SAR(1 g) = 3.86 mW/g; SAR(10 g) = 2.75 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.10 mW/g



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Plot B32

Date/Time: 21/01/2015 12:47:07 PM

835 Body 21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 861 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 861 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(7.92, 7.92, 7.92); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B32 Body XL-200, 861MHz 4000-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.18 mW/g

B32 Body XL-200, 861MHz 4000-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

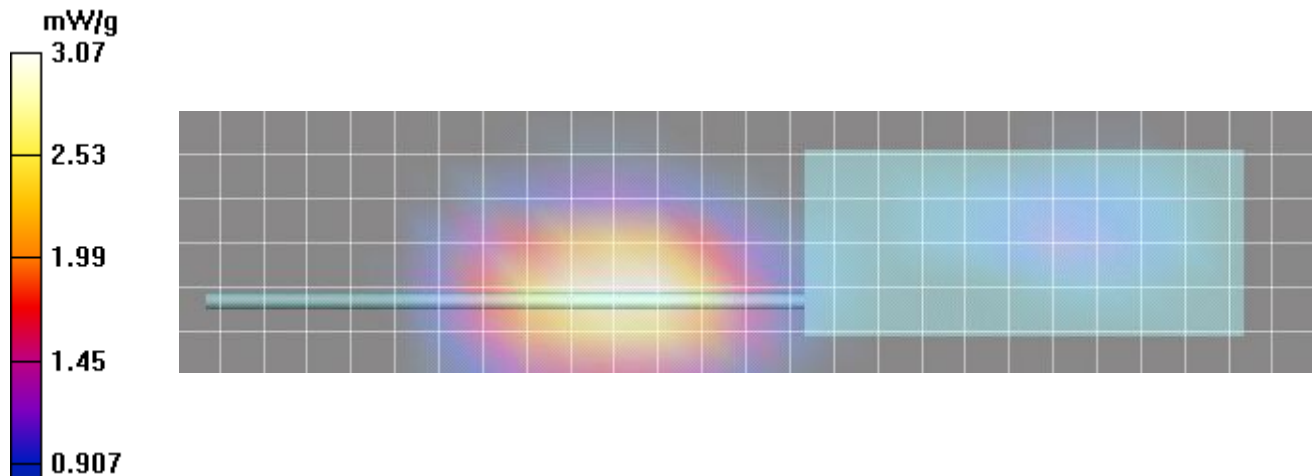
Reference Value = 25.6 V/m; Power Drift = -0.616 dB

Peak SAR (extrapolated) = 3.89 W/kg

SAR(1 g) = 2.89 mW/g; SAR(10 g) = 2.08 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.07 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot B33

Date/Time: 21/01/2015 1:05:22 PM

835 Body 21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B33 Body XL-200, 776MHz 4000-1 SCAN/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.94 mW/g

B33 Body XL-200, 776MHz 4000-1 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

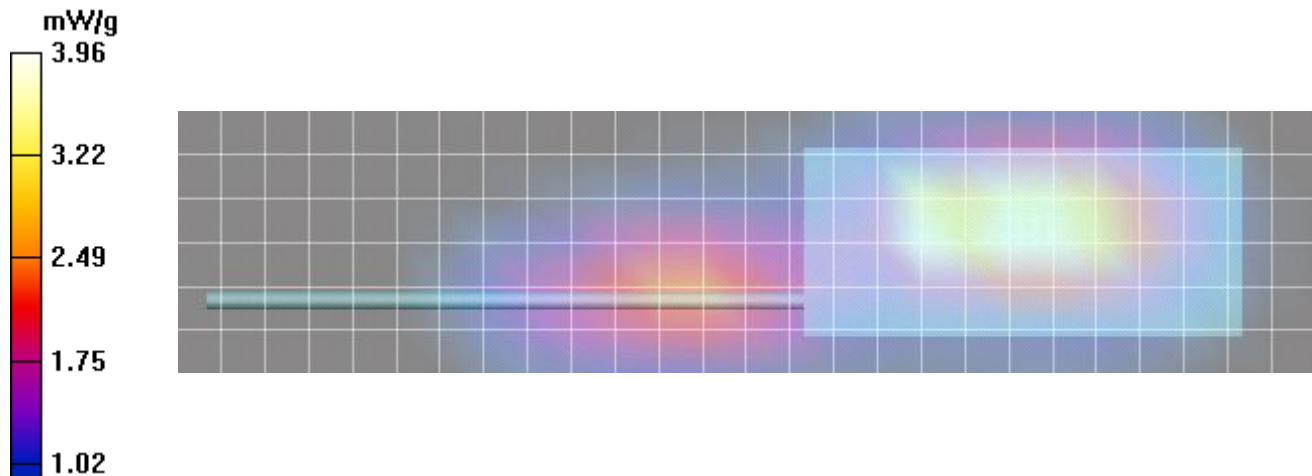
Reference Value = 38.9 V/m; Power Drift = -0.300 dB

Peak SAR (extrapolated) = 6.28 W/kg

SAR(1 g) = 3.62 mW/g; SAR(10 g) = 2.35 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.96 mW/g



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DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot B34

Date/Time: 21/01/2015 3:10:53 PM

835 Body (506-2)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 768 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 768 \text{ MHz}$; $\sigma = 0.916 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B34 Body XL-200, 768MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.27 mW/g

B34 Body XL-200, 768MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

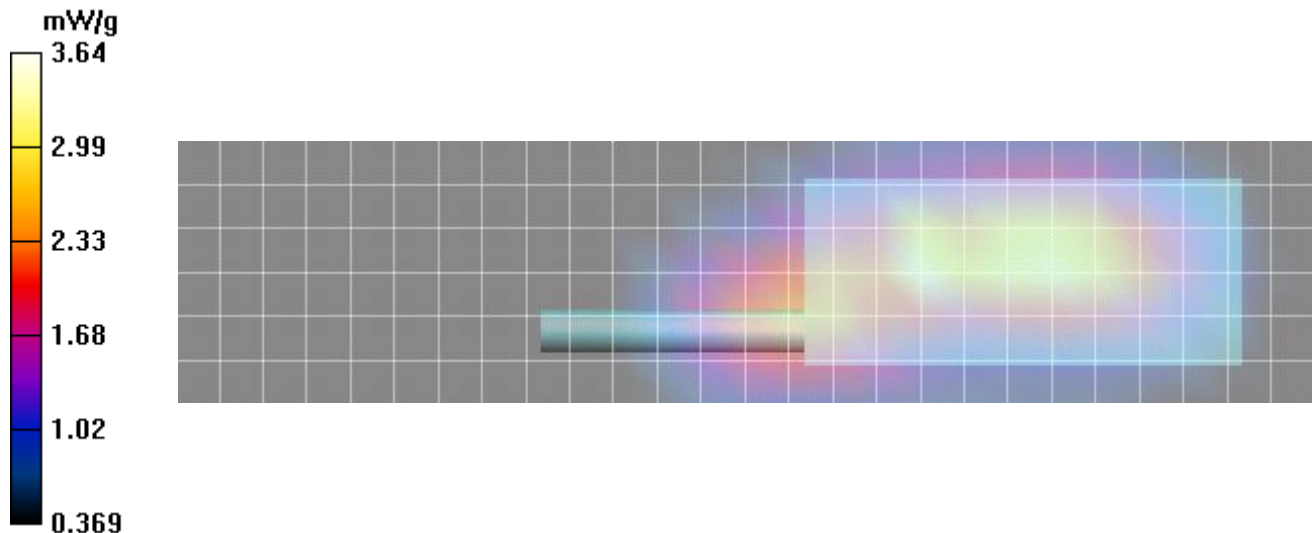
Reference Value = 52.2 V/m; Power Drift = -0.945 dB

Peak SAR (extrapolated) = 5.53 W/kg

SAR(1 g) = 3.22 mW/g; SAR(10 g) = 2.06 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.64 mW/g



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DUT Type:	XL-200P Multi-Band Portable PTT Transceiver		
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Plot B35

Date/Time: 21/01/2015 3:33:00 PM

835 Body (506-2)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B35 Body XL-200, 776MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.33 mW/g

B35 Body XL-200, 776MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

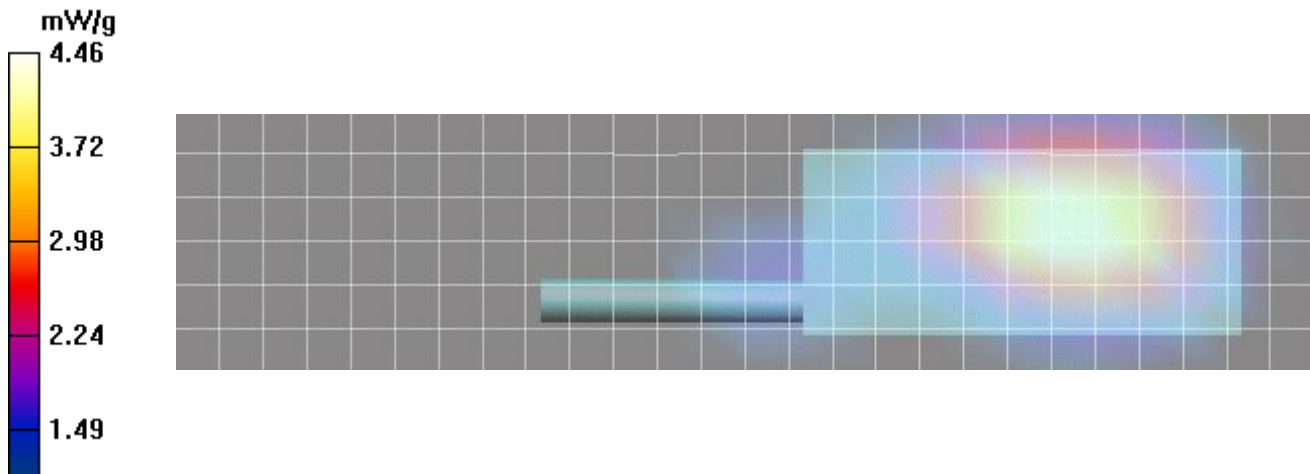
Reference Value = 39.2 V/m; Power Drift = -0.510 dB

Peak SAR (extrapolated) = 5.36 W/kg

SAR(1 g) = 4.24 mW/g; SAR(10 g) = 3.16 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.46 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Plot B36

Date/Time: 21/01/2015 3:55:47 PM

835 Body (506-2)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B36 Body XL-200, 806MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.60 mW/g

B36 Body XL-200, 806MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

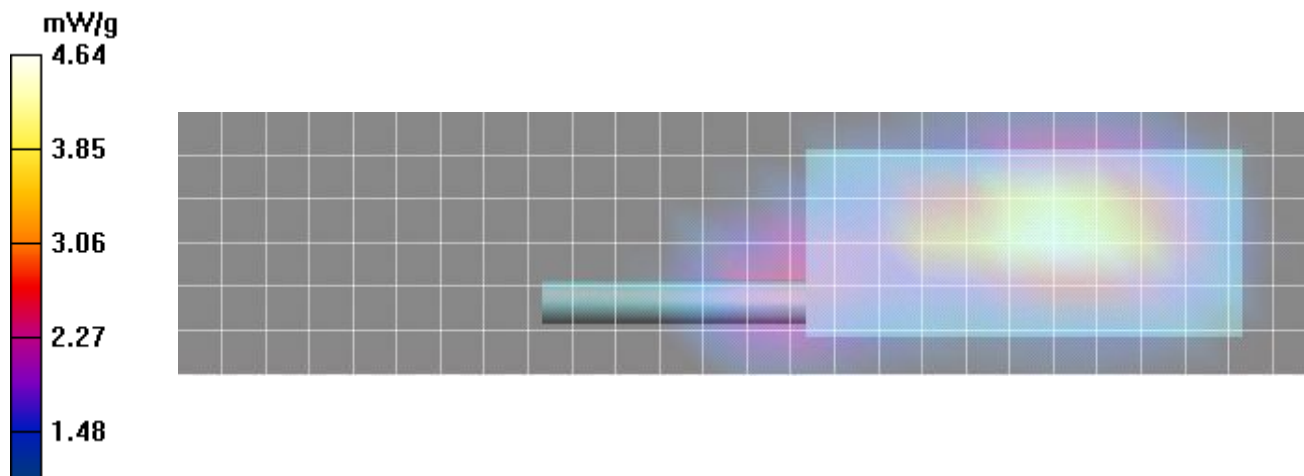
Reference Value = 47.9 V/m; Power Drift = -0.528 dB

Peak SAR (extrapolated) = 5.73 W/kg

SAR(1 g) = 4.39 mW/g; SAR(10 g) = 3.18 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.64 mW/g



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Plot B37

Date/Time: 21/01/2015 4:53:34 PM

835 Body (506-2)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.11, 8.11, 8.11); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B37 Body XL-200, 851MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.24 mW/g

B37 Body XL-200, 851MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

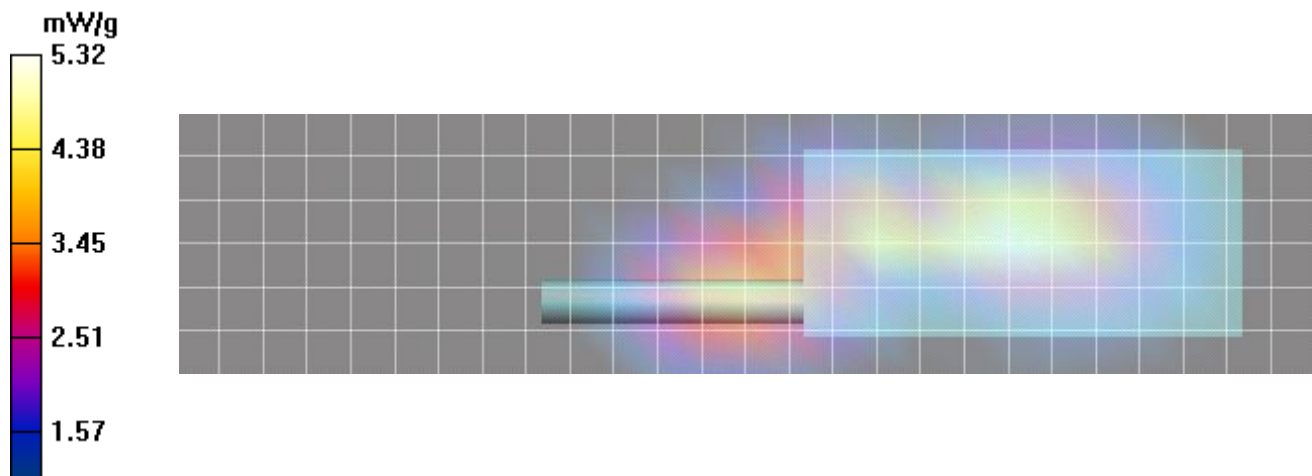
Reference Value = 59.4 V/m; Power Drift = -0.609 dB

Peak SAR (extrapolated) = 6.77 W/kg

SAR(1 g) = 5 mW/g; SAR(10 g) = 3.49 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.32 mW/g



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Plot B38

Date/Time: 21/01/2015 5:13:26 PM

835 Body (506-2)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 856 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 856 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.11, 8.11, 8.11); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B38 Body XL-200, 856MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.41 mW/g

B38 Body XL-200, 856MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

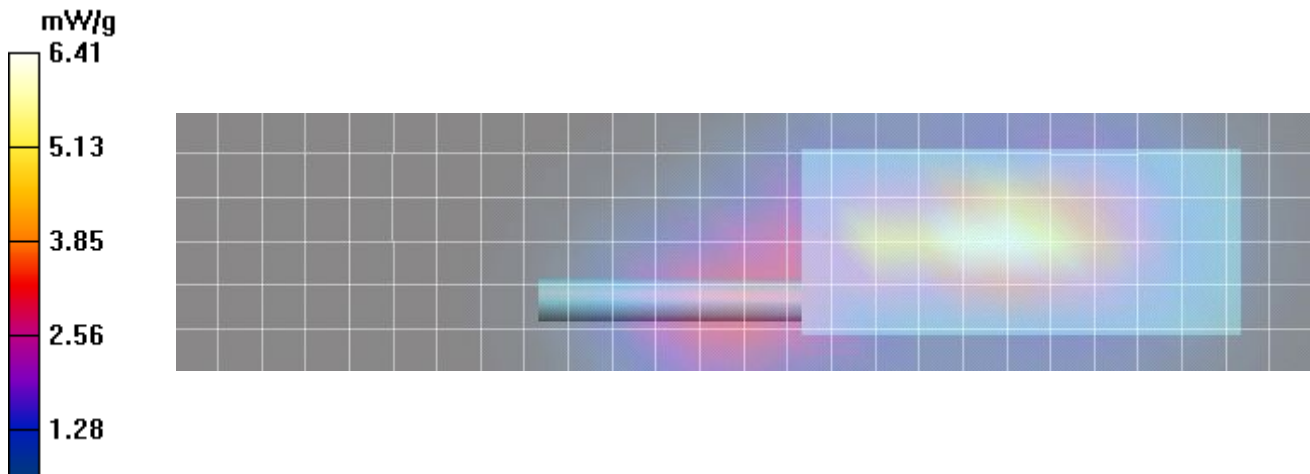
Reference Value = 50.7 V/m; Power Drift = -0.445 dB

Peak SAR (extrapolated) = 8.18 W/kg

SAR(1 g) = 5.96 mW/g; SAR(10 g) = 4.06 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.36 mW/g



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Plot B39

Date/Time: 21/01/2015 5:33:24 PM

835 Body (506-2)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 861 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 861 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(7.92, 7.92, 7.92); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B39 Body XL-200, 861MHz 506-2 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.60 mW/g

B39 Body XL-200, 861MHz 506-2 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

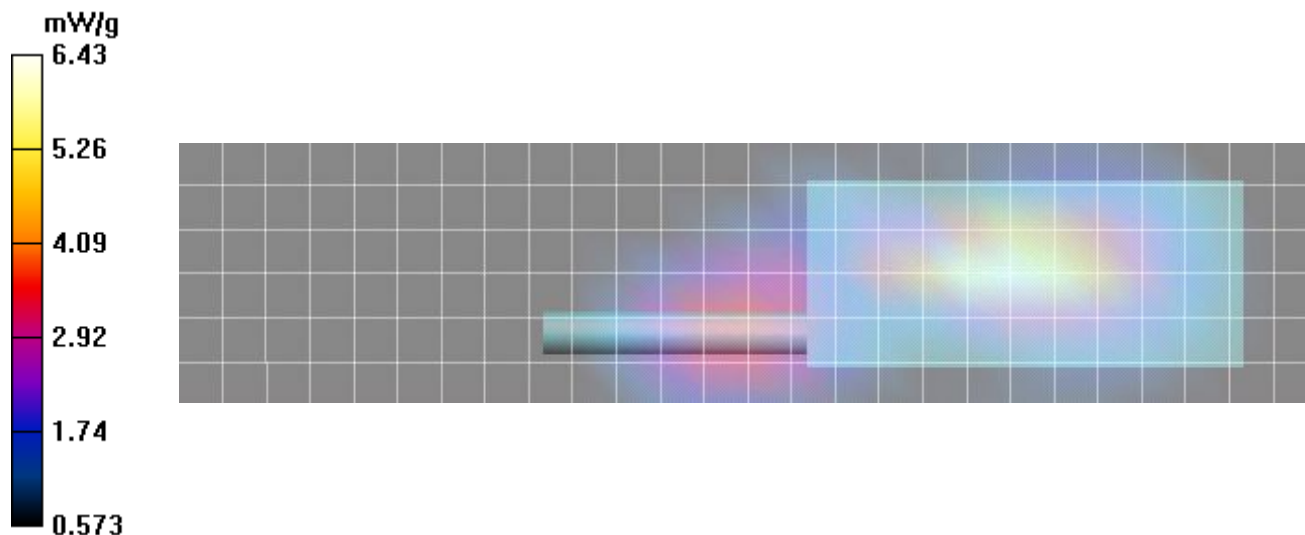
Reference Value = 49.8 V/m; Power Drift = -0.398 dB

Peak SAR (extrapolated) = 8.38 W/kg

SAR(1 g) = 6.08 mW/g; SAR(10 g) = 4.12 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

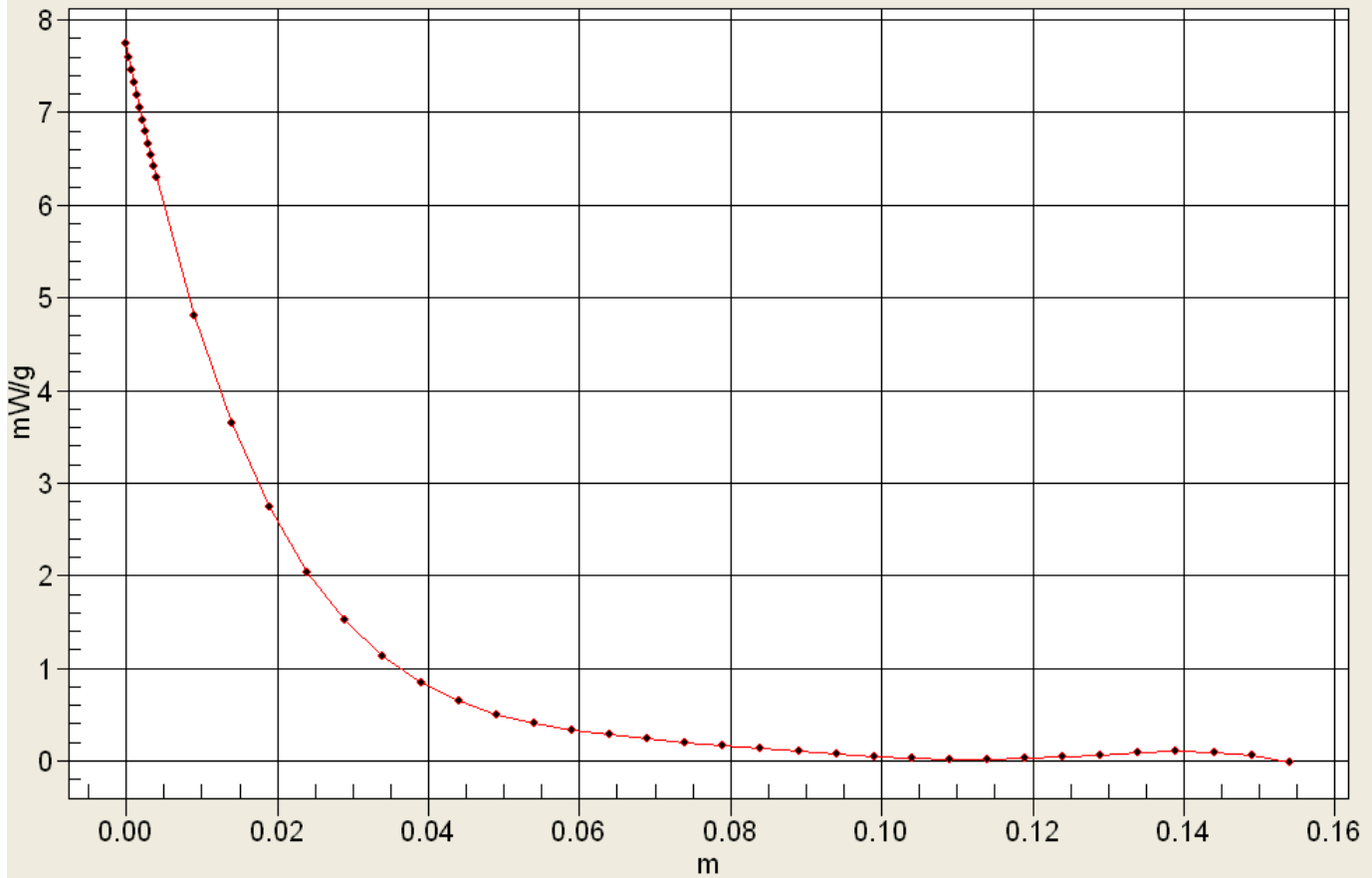
Maximum value of SAR (measured) = 6.43 mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Plot B40

Date/Time: 21/01/2015 5:52:55 PM

835 Body (506-2)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 861 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 861 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(7.92, 7.92, 7.92); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B40 Body XL-200, 861MHz 506-2 SCAN/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.92 mW/g

B40 Body XL-200, 861MHz 506-2 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

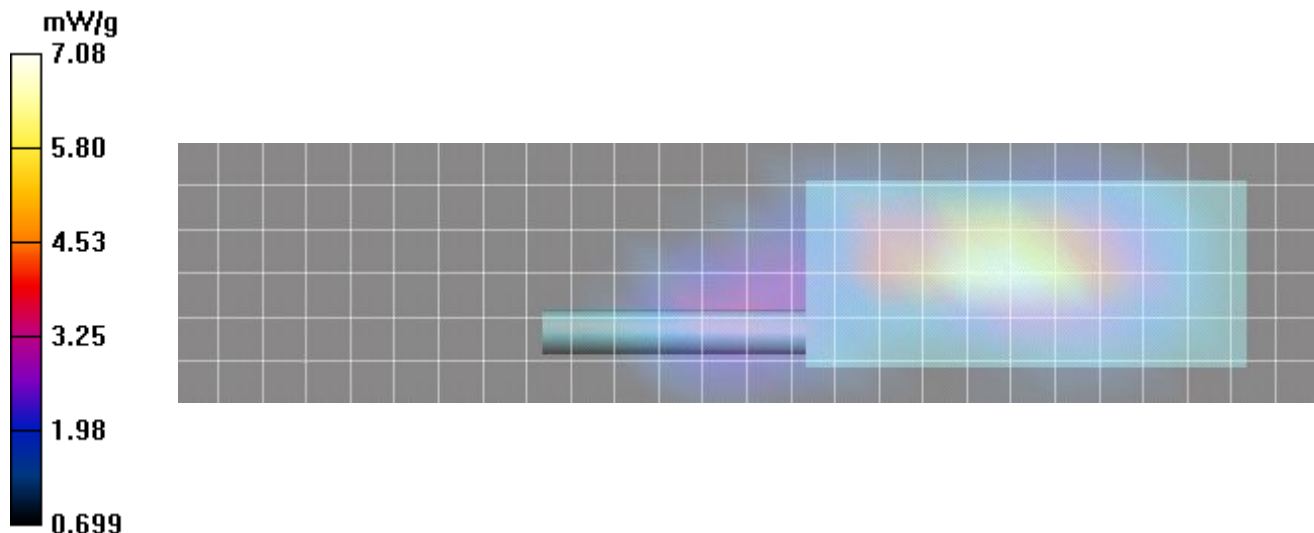
Reference Value = 49.2 V/m; Power Drift = -0.287 dB

Peak SAR (extrapolated) = 9.19 W/kg

SAR(1 g) = 6.69 mW/g; SAR(10 g) = 4.56 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.08 mW/g



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Plot B41

Date/Time: 21/01/2015 1:27:53 PM

835 Body (506-1)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 768 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 768 \text{ MHz}$; $\sigma = 0.916 \text{ mho/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B41 Body XL-200, 768MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.99 mW/g

B41 Body XL-200, 768MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

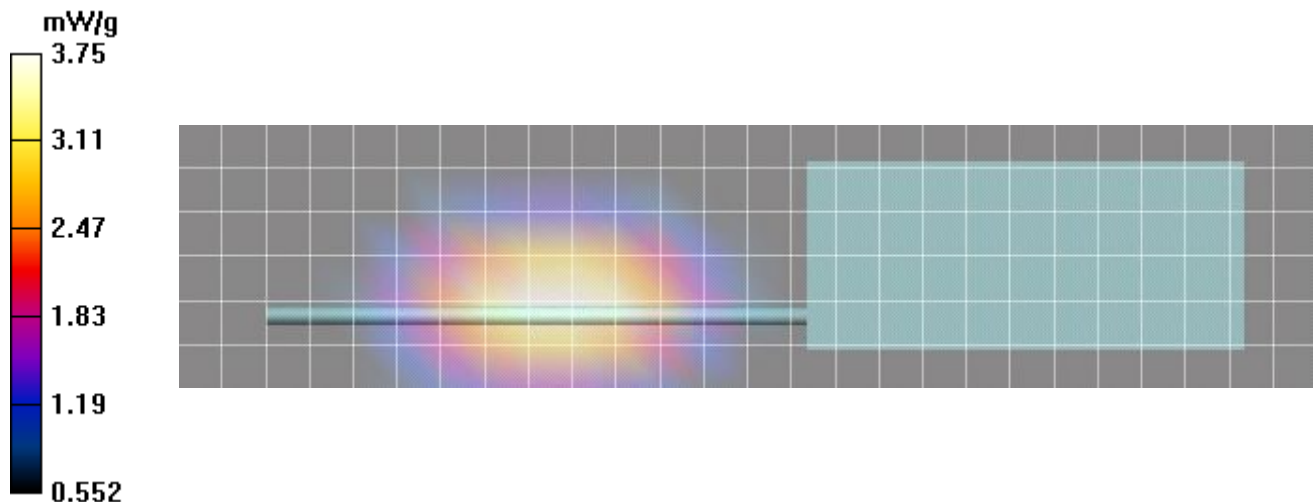
Reference Value = 19.0 V/m; Power Drift = -0.801 dB

Peak SAR (extrapolated) = 4.69 W/kg

SAR(1 g) = 3.54 mW/g; SAR(10 g) = 2.56 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.75 mW/g



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Plot B42

Date/Time: 21/01/2015 1:46:57 PM

835 Body (506-1)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B42 Body XL-200, 776MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.66 mW/g

B42 Body XL-200, 776MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

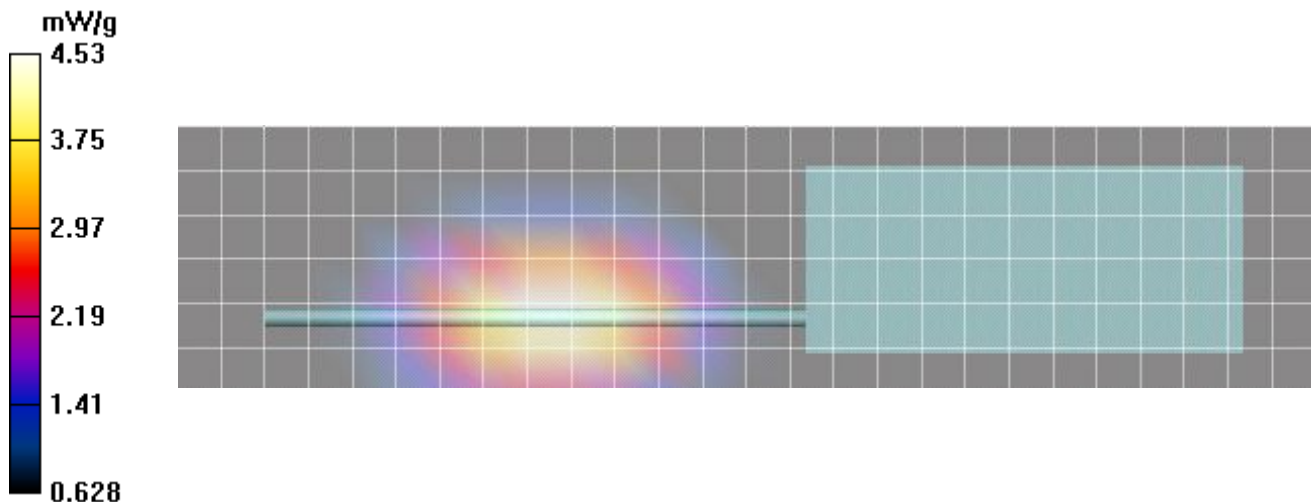
Reference Value = 16.1 V/m; Power Drift = -0.609 dB

Peak SAR (extrapolated) = 5.70 W/kg

SAR(1 g) = 4.27 mW/g; SAR(10 g) = 3.08 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

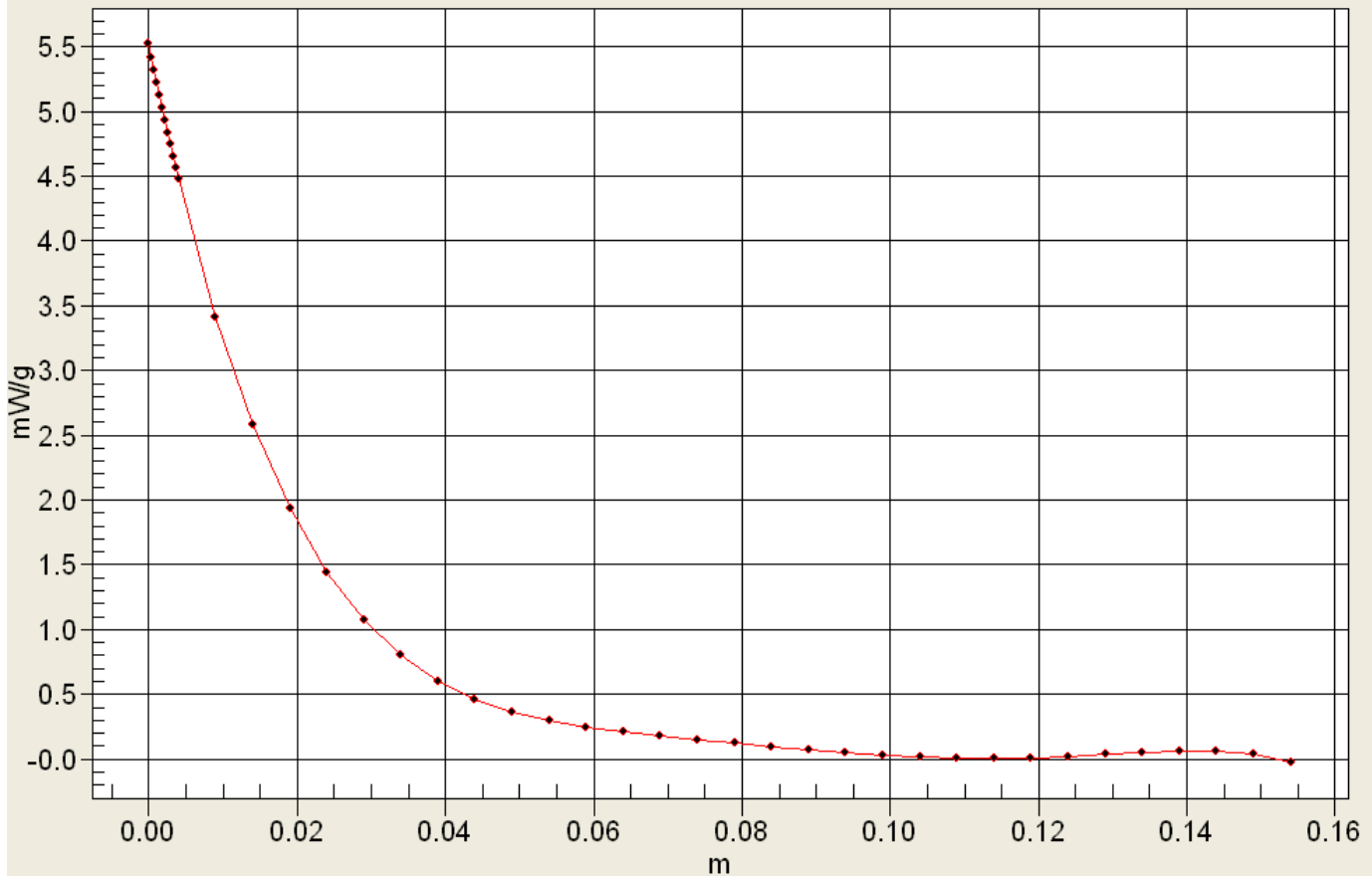
Maximum value of SAR (measured) = 4.53 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Plot B43

Date/Time: 21/01/2015 2:06:37 PM

835 Body (506-1)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 806 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 806 \text{ MHz}$; $\sigma = 0.952 \text{ mho/m}$; $\epsilon_r = 54.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B43 Body XL-200, 806MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.42 mW/g

B43 Body XL-200, 806MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

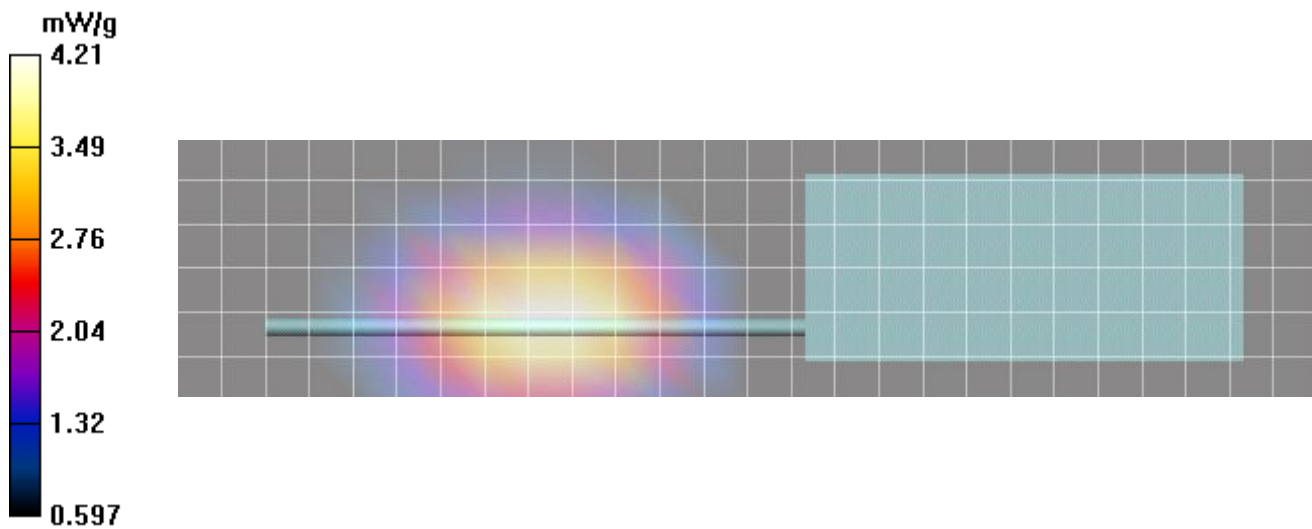
Reference Value = 14.2 V/m; Power Drift = -0.615 dB

Peak SAR (extrapolated) = 5.27 W/kg

SAR(1 g) = 3.97 mW/g; SAR(10 g) = 2.88 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.21 mW/g



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Plot B44

Date/Time: 21/01/2015 9:36:33 AM

835 Body (506-1)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 851 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 851 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.11, 8.11, 8.11); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B44 Body XL-200, 851MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.32 mW/g

B44 Body XL-200, 851MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

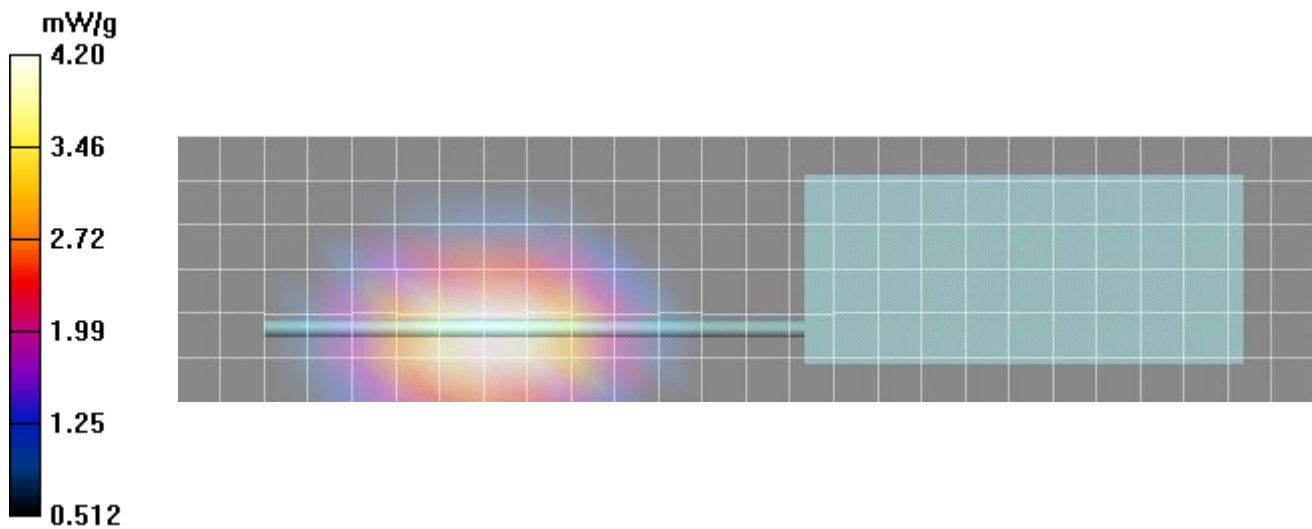
Reference Value = 13.0 V/m; Power Drift = -0.463 dB

Peak SAR (extrapolated) = 5.39 W/kg

SAR(1 g) = 3.96 mW/g; SAR(10 g) = 2.8 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.20 mW/g



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Plot B45

Date/Time: 21/01/2015 10:17:30 AM

835 Body (506-1)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 856 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 856 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.11, 8.11, 8.11); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B45 Body XL-200, 856MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.87 mW/g

B45 Body XL-200, 856MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

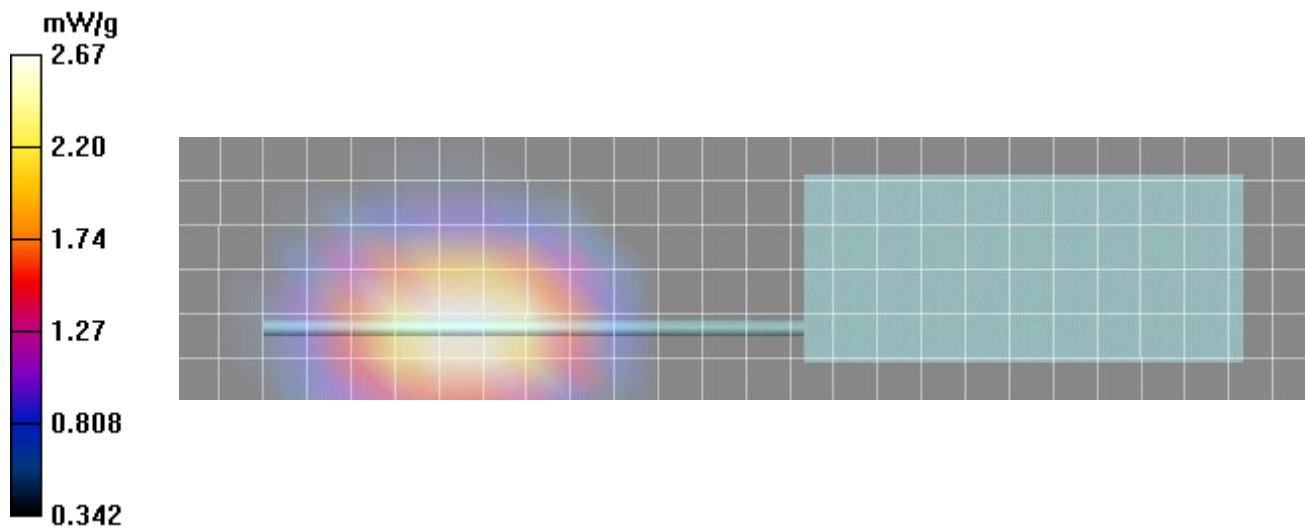
Reference Value = 11.7 V/m; Power Drift = -0.710 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.8 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.67 mW/g



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Plot B46

Date/Time: 21/01/2015 10:49:36 AM

835 Body (506-1)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 861 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 861 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 53.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(7.92, 7.92, 7.92); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B46 Body XL-200, 861MHz 506-1 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.11 mW/g

B46 Body XL-200, 861MHz 506-1 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

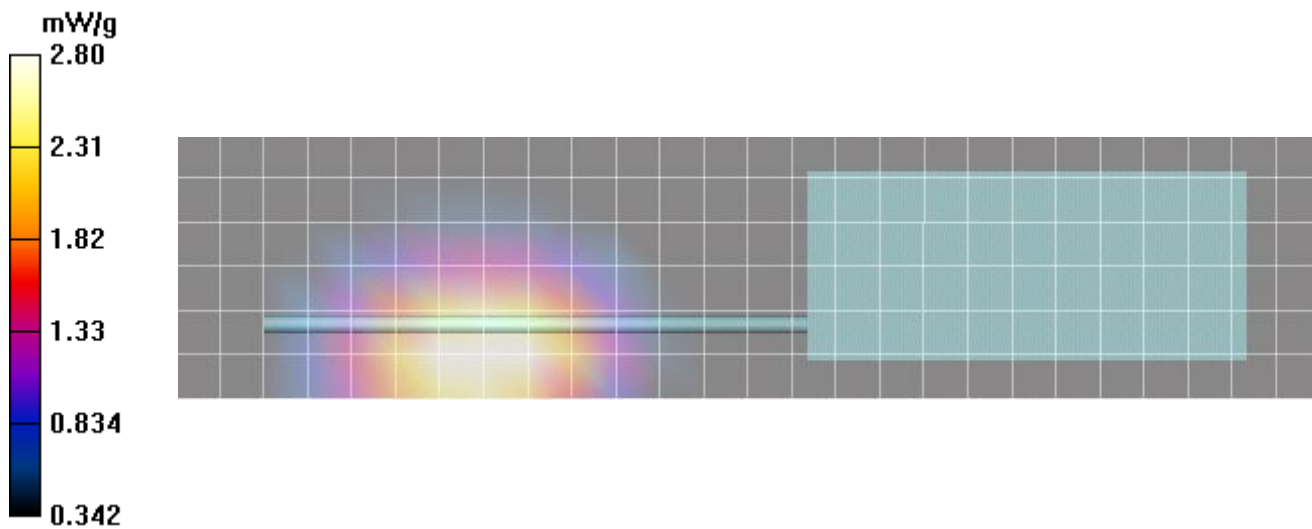
Reference Value = 11.3 V/m; Power Drift = -0.536 dB

Peak SAR (extrapolated) = 3.58 W/kg

SAR(1 g) = 2.65 mW/g; SAR(10 g) = 1.88 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.80 mW/g



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Plot B47

Date/Time: 21/01/2015 11:26:30 AM

835 Body (506-1)21 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 21 Jan 2015 Ambient Temp: 24C; Fluid Temp: 23.1C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 776 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used (interpolated): $f = 776 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 54.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.14, 8.14, 8.14); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B47 Body XL-200, 776MHz 506-1 SCAN/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.42 mW/g

B47 Body XL-200, 776MHz 506-1 SCAN/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

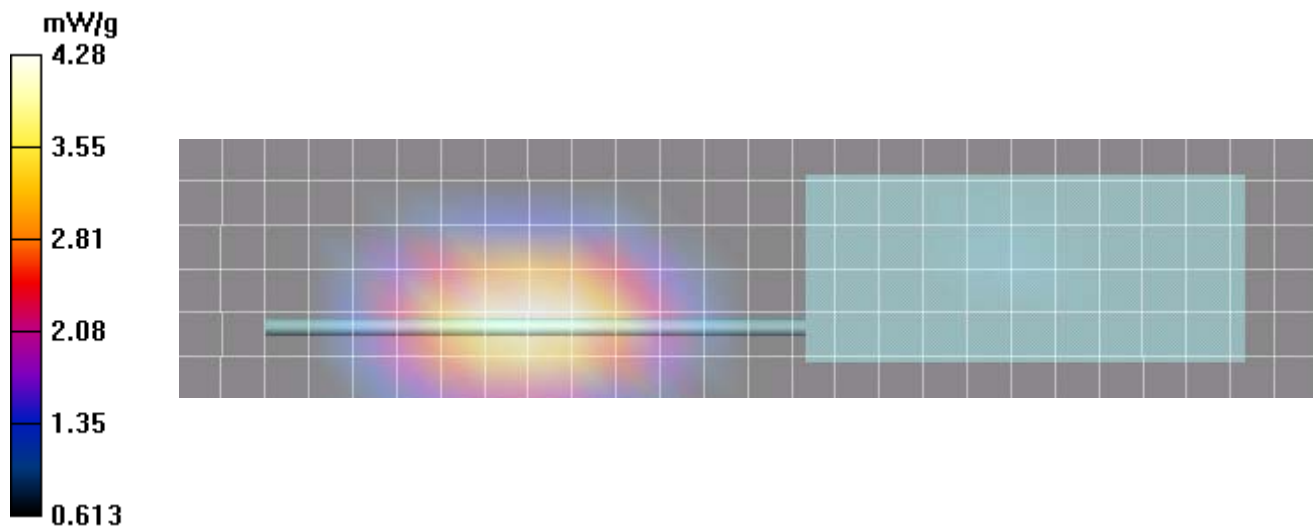
Reference Value = 16.3 V/m; Power Drift = -0.643 dB

Peak SAR (extrapolated) = 5.37 W/kg

SAR(1 g) = 4.03 mW/g; SAR(10 g) = 2.91 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.28 mW/g



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Plot B48

Date/Time: 22/01/2015 12:04:33 PM

450 Body 22 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 22 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 406 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 406 \text{ MHz}$; $\sigma = 0.896 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B48 Body XL-200, 406MHz 4000-1 0650-01 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 10.5 mW/g

B48 Body XL-200, 406MHz 4000-1 0650-01 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

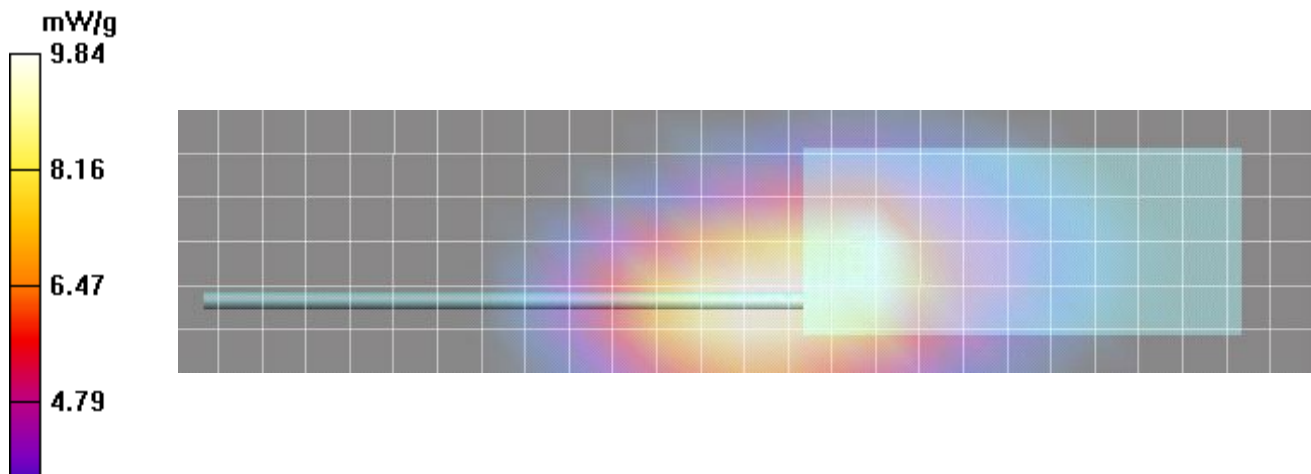
Reference Value = 95.4 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 13.2 W/kg

SAR(1 g) = 9.34 mW/g; SAR(10 g) = 6.81 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

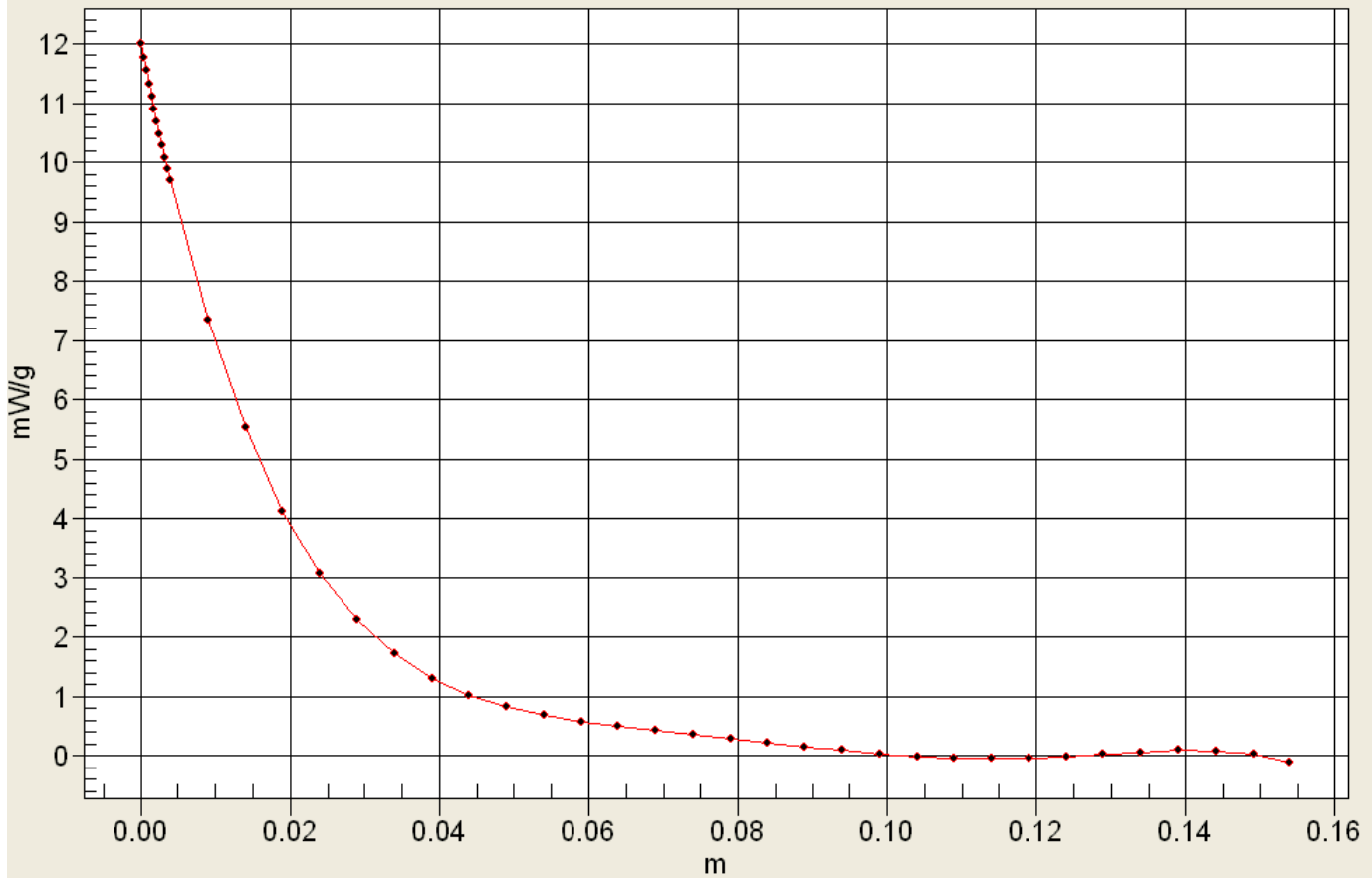
Maximum value of SAR (measured) = 9.84 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Plot B49

Date/Time: 22/01/2015 12:51:50 PM

450 Body 22 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 22 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 406 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 406 \text{ MHz}$; $\sigma = 0.896 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B49 Body XL-200, 406MHz 4000-1 0197-01 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.38 mW/g

B49 Body XL-200, 406MHz 4000-1 0197-01 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

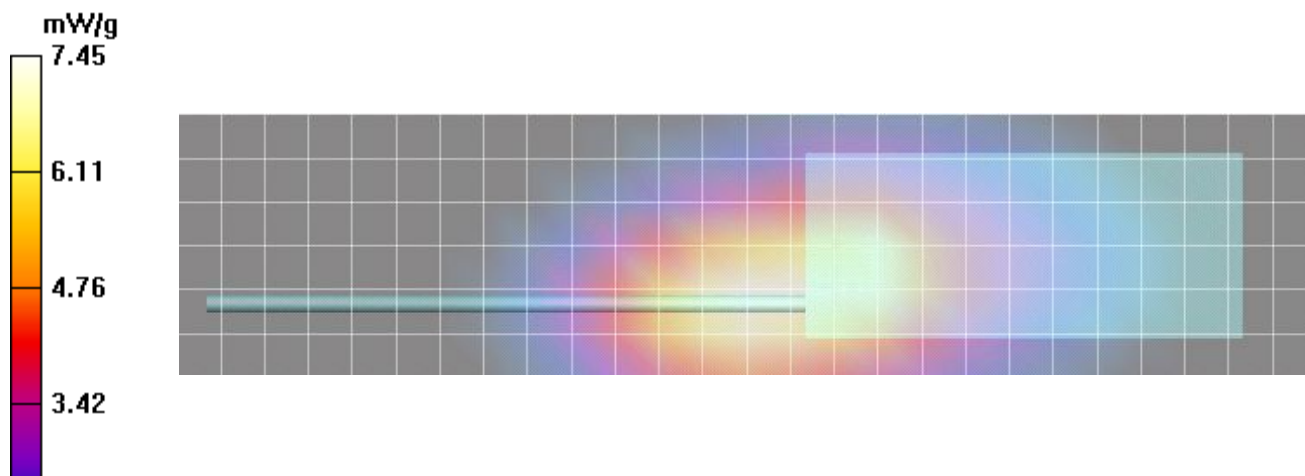
Reference Value = 82.2 V/m; Power Drift = -2.44 dB

Peak SAR (extrapolated) = 10.00 W/kg

SAR(1 g) = 7.29 mW/g; SAR(10 g) = 5.26 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.45 mW/g



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Plot B50

Date/Time: 22/01/2015 1:33:18 PM

450 Body 22 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 22 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 406 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 406 \text{ MHz}$; $\sigma = 0.896 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B50 Body XL-200, 406MHz 4000-1 1609/1-01 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.82 mW/g

B50 Body XL-200, 406MHz 4000-1 1609/1-01 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

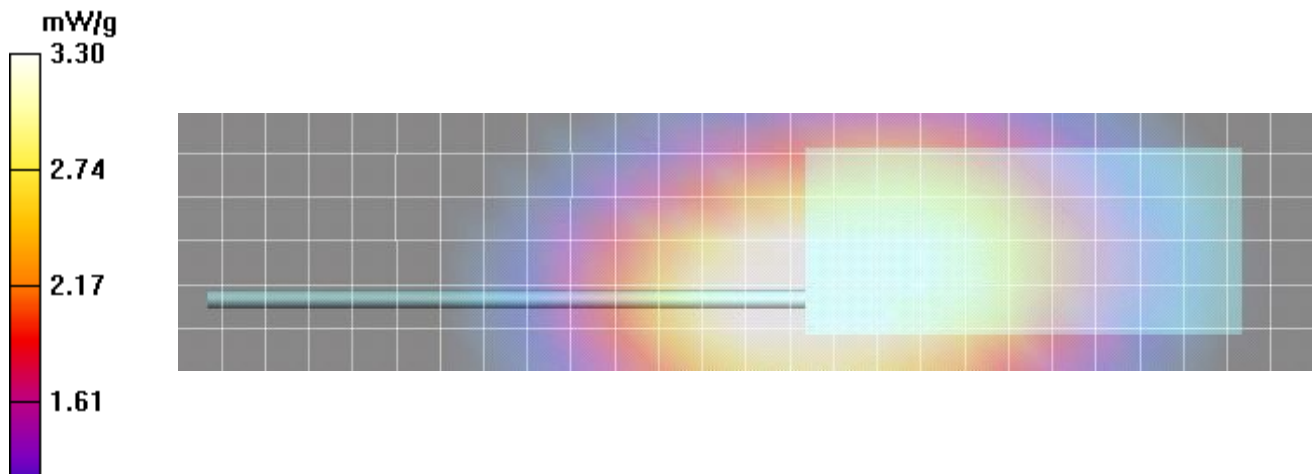
Reference Value = 62.7 V/m; Power Drift = -2.23 dB

Peak SAR (extrapolated) = 3.90 W/kg

SAR(1 g) = 2.25 mW/g; SAR(10 g) = 1.75 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.30 mW/g



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Plot B51

Date/Time: 22/01/2015 1:54:27 PM

450 Body 22 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 22 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 406 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 406 \text{ MHz}$; $\sigma = 0.896 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B51 Body XL-200, 406MHz 4000-1 14002-0218-01 SYS/Area Scan (7x27x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.50 mW/g

B51 Body XL-200, 406MHz 4000-1 14002-0218-01 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

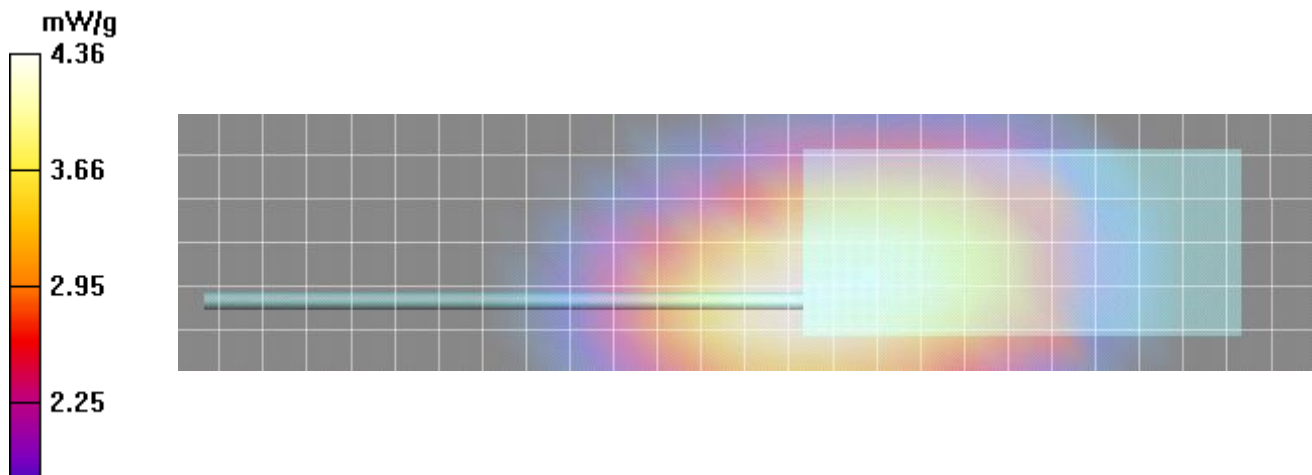
Reference Value = 67.1 V/m; Power Drift = -0.168 dB

Peak SAR (extrapolated) = 5.38 W/kg

SAR(1 g) = 4.17 mW/g; SAR(10 g) = 3.2 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.36 mW/g



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Plot B52

Date/Time: 22/01/2015 4:33:42 PM

450 Body 22 Jan 2015

DUT: Harris; Type: PTT Radio Transceiver; Serial: Not Specified

Program Notes: 22 Jan 2015 Ambient Temp: 24C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 406 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used (interpolated): $f = 406 \text{ MHz}$; $\sigma = 0.896 \text{ mho/m}$; $\epsilon_r = 55.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

B52 Body XL-200, 406MHz 4000-1 0600-01 SYS/Area Scan (7x27x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 9.98 mW/g

B52 Body XL-200, 406MHz 4000-1 0600-01 SYS/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$

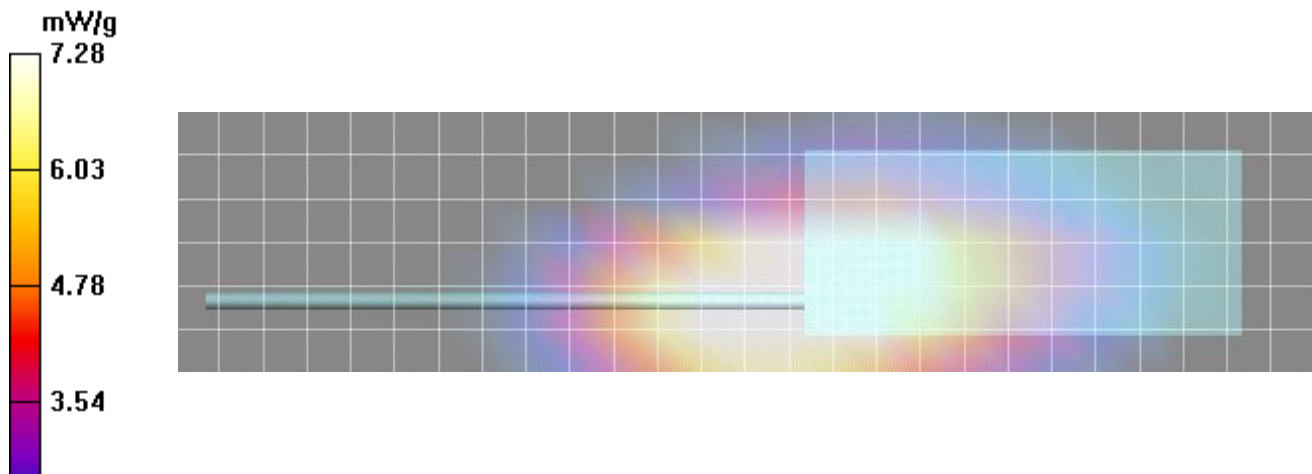
Reference Value = 92.6 V/m; Power Drift = -1.58 dB

Peak SAR (extrapolated) = 9.92 W/kg

SAR(1 g) = 6.78 mW/g; SAR(10 g) = 4.84 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.28 mW/g



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APPENDIX B - SYSTEM VERIFICATION MEASUREMENT PLOTS

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Date/Time: 29/12/2014 2:42:12 PM

SPC 450H - 29 Dec 2014

DUT: Dipole 450 MHz; Type: D450V3; Serial: 1068; Calibrated: 04/27/2012

Program Notes: 29 Dec 2014 Ambient Temp: 25C; Fluid Temp: 21.6C; Humidity: 12%

Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.82 \text{ mho/m}$; $\epsilon_r = 42.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Head d=15mm Pin=398mW, TS=[1.683][1.87][2.057]/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.99 mW/g

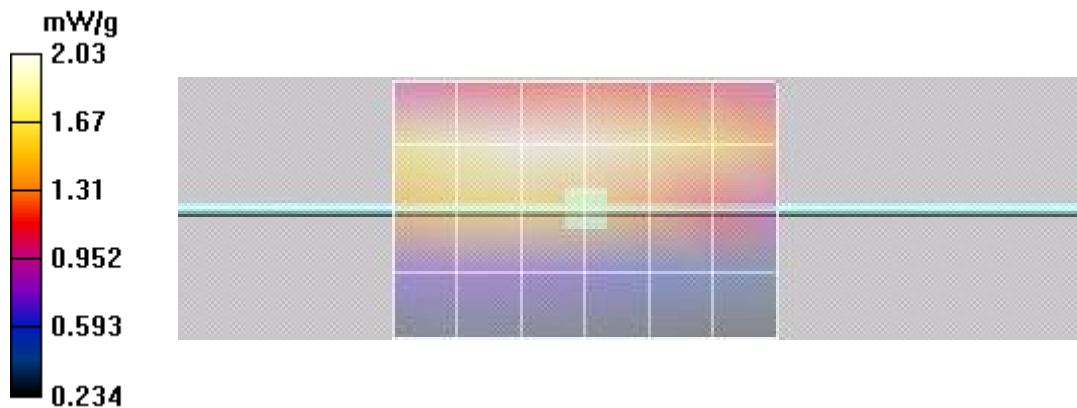
Head d=15mm Pin=398mW, TS=[1.683][1.87][2.057]/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 41.9 V/m; Power Drift = 0.218 dB

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 1.88 mW/g; SAR(10 g) = 1.27 mW/g

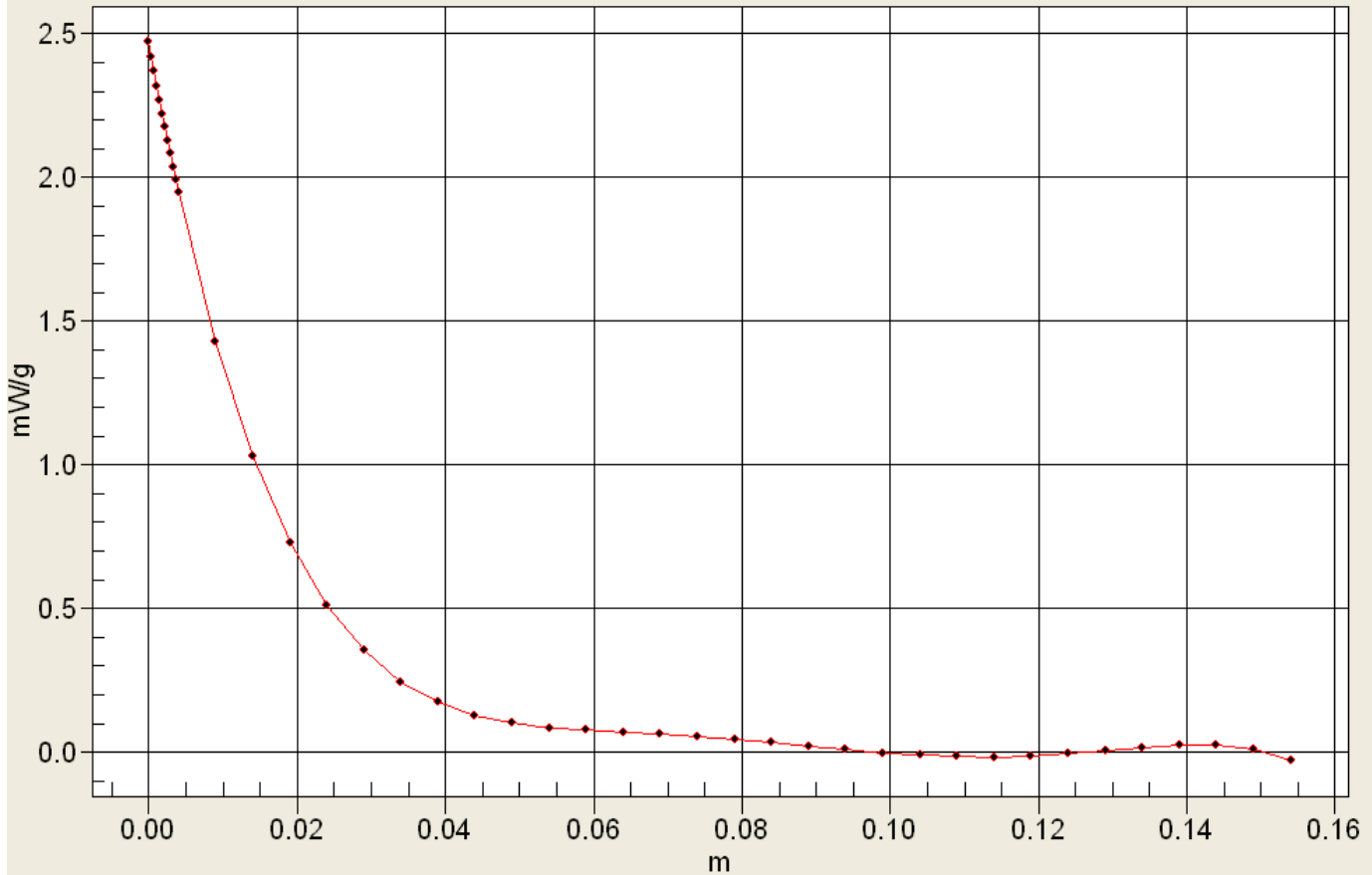
Maximum value of SAR (measured) = 2.03 mW/g



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Interpolated 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> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date/Time: 05/01/2015 3:38:49 PM

SPC 450B - 05 Jan 2015

DUT: Dipole 450 MHz; Type: D450V3; Serial: 1068; Calibrated: 04/27/2012

Program Notes: Jan 5 2015, Ambient Temp: 24C; Fluid Temp: 24.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body d=15mm Pin=398mW, TS=[1.629][1.81][1.991]/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.92 mW/g

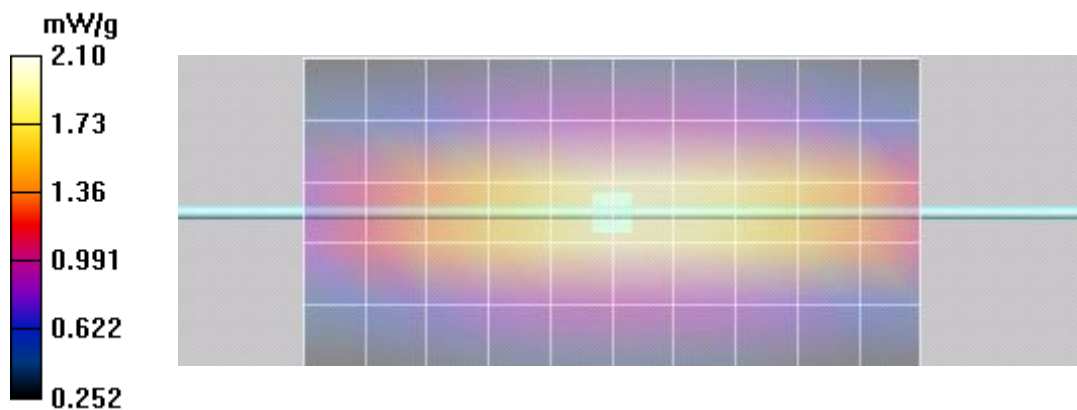
Body d=15mm Pin=398mW, TS=[1.629][1.81][1.991]/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 48.3 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 2.85 W/kg

SAR(1 g) = 1.96 mW/g; SAR(10 g) = 1.33 mW/g

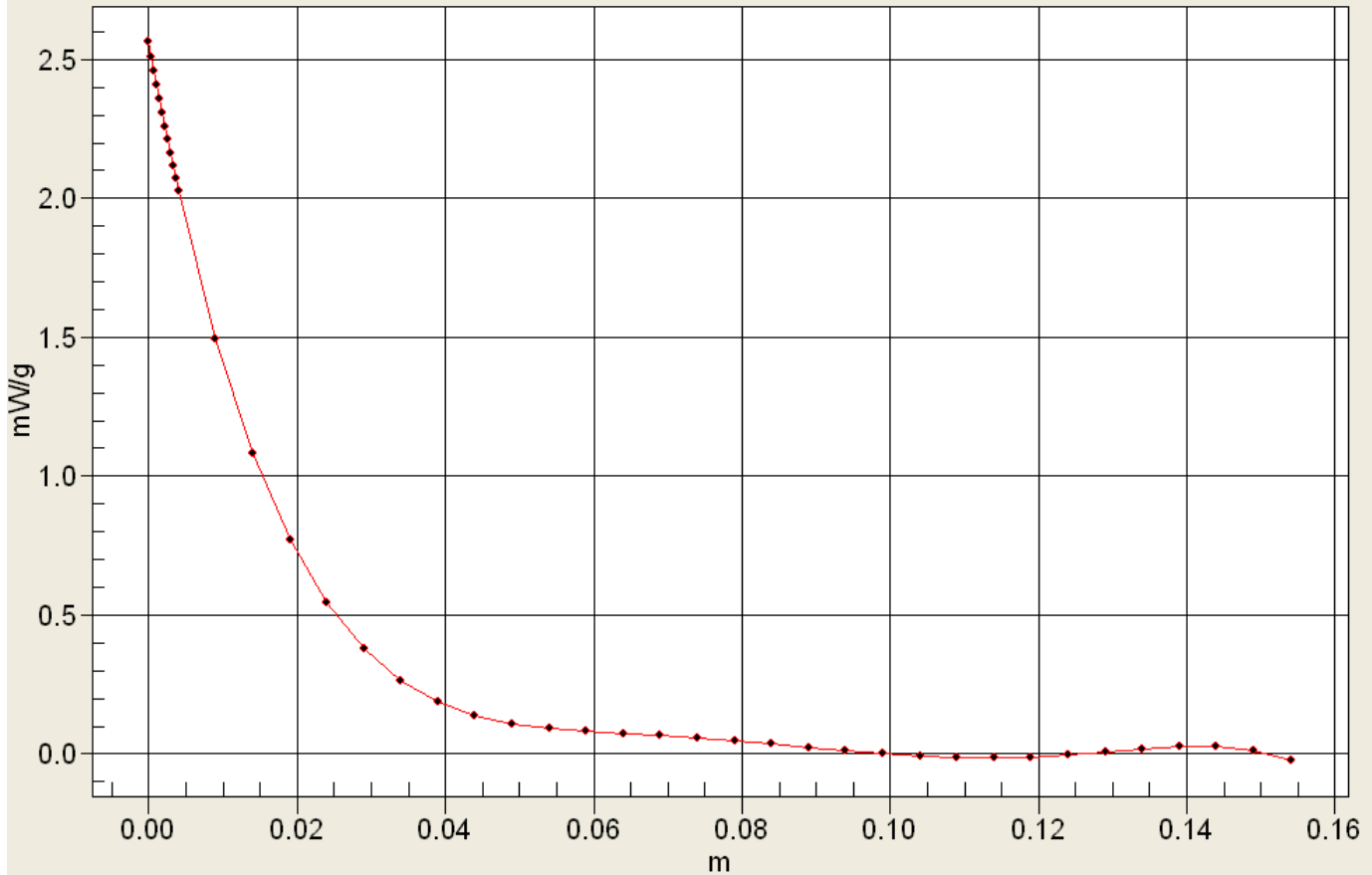
Maximum value of SAR (measured) = 2.10 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Date/Time: 05/01/2015 3:38:49 PM

SPC 450B - 05 Jan 2015

DUT: Dipole 450 MHz; Type: D450V3; Serial: 1068; Calibrated: 04/27/2012

Program Notes: Jan 5 2015, Ambient Temp: 24C; Fluid Temp: 24.7C; Humidity: 10%

Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.92 \text{ mho/m}$; $\epsilon_r = 53.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body d=15mm Pin=398mW, TS=[1.629][1.81][1.991]/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.92 mW/g

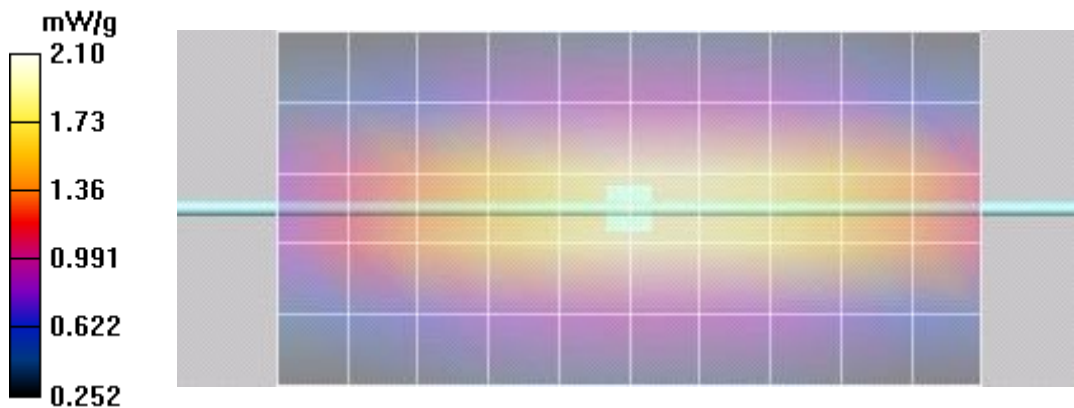
Body d=15mm Pin=398mW, TS=[1.629][1.81][1.991]/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 48.3 V/m; Power Drift = -0.080 dB

Peak SAR (extrapolated) = 2.85 W/kg

SAR(1 g) = 1.96 mW/g; SAR(10 g) = 1.33 mW/g

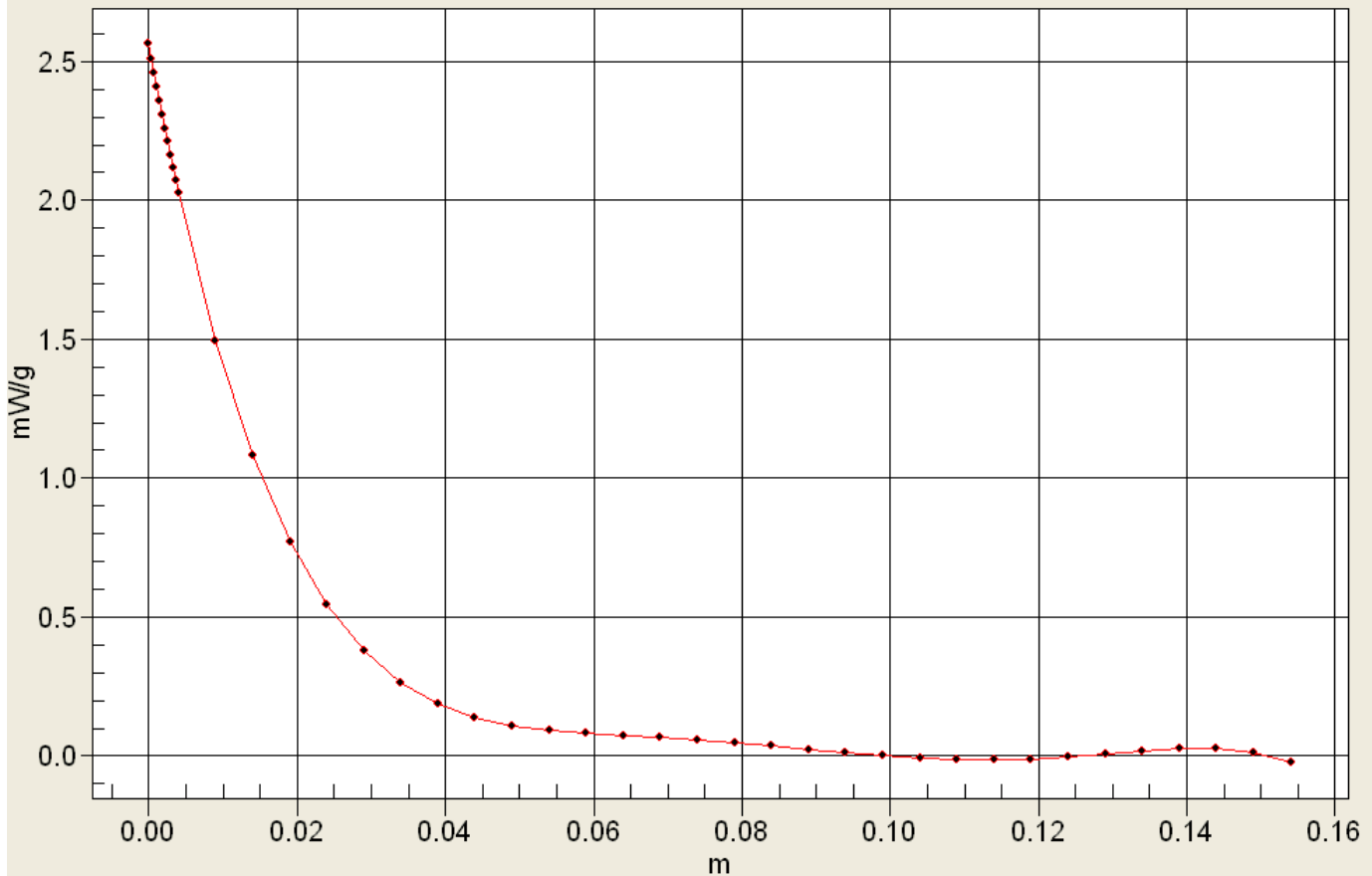
Maximum value of SAR (measured) = 2.10 mW/g



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Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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Date/Time: 08/01/2015 11:47:17 AM

SPC 835 Head - 08 Jan 2015

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 04/20/2012

Program Notes: 08 Jan 2015 Ambient Temp: 25C; Fluid Temp: 23.3C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.23, 8.23, 8.23); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Head d=15mm Pin=250mW. TS=2.124/2.36/2.596 W/kg/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.71 mW/g

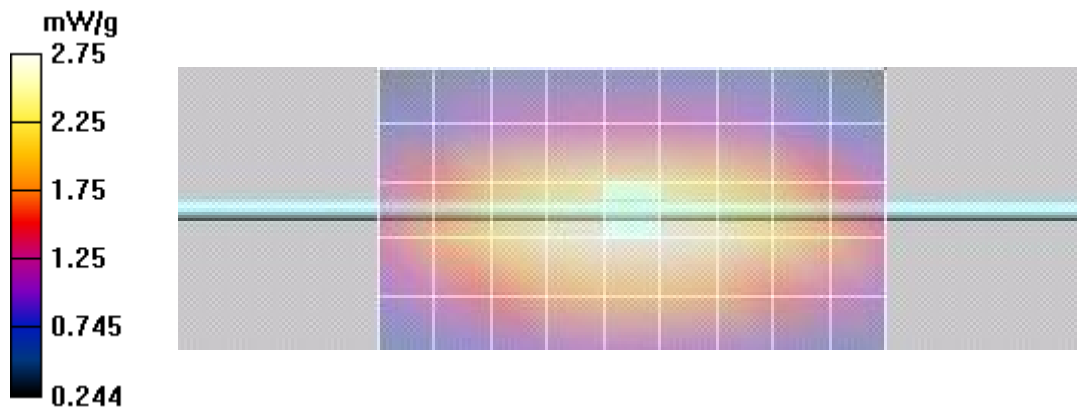
Head d=15mm Pin=250mW. TS=2.124/2.36/2.596 W/kg/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.6 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 3.88 W/kg

SAR(1 g) = 2.55 mW/g; SAR(10 g) = 1.65 mW/g

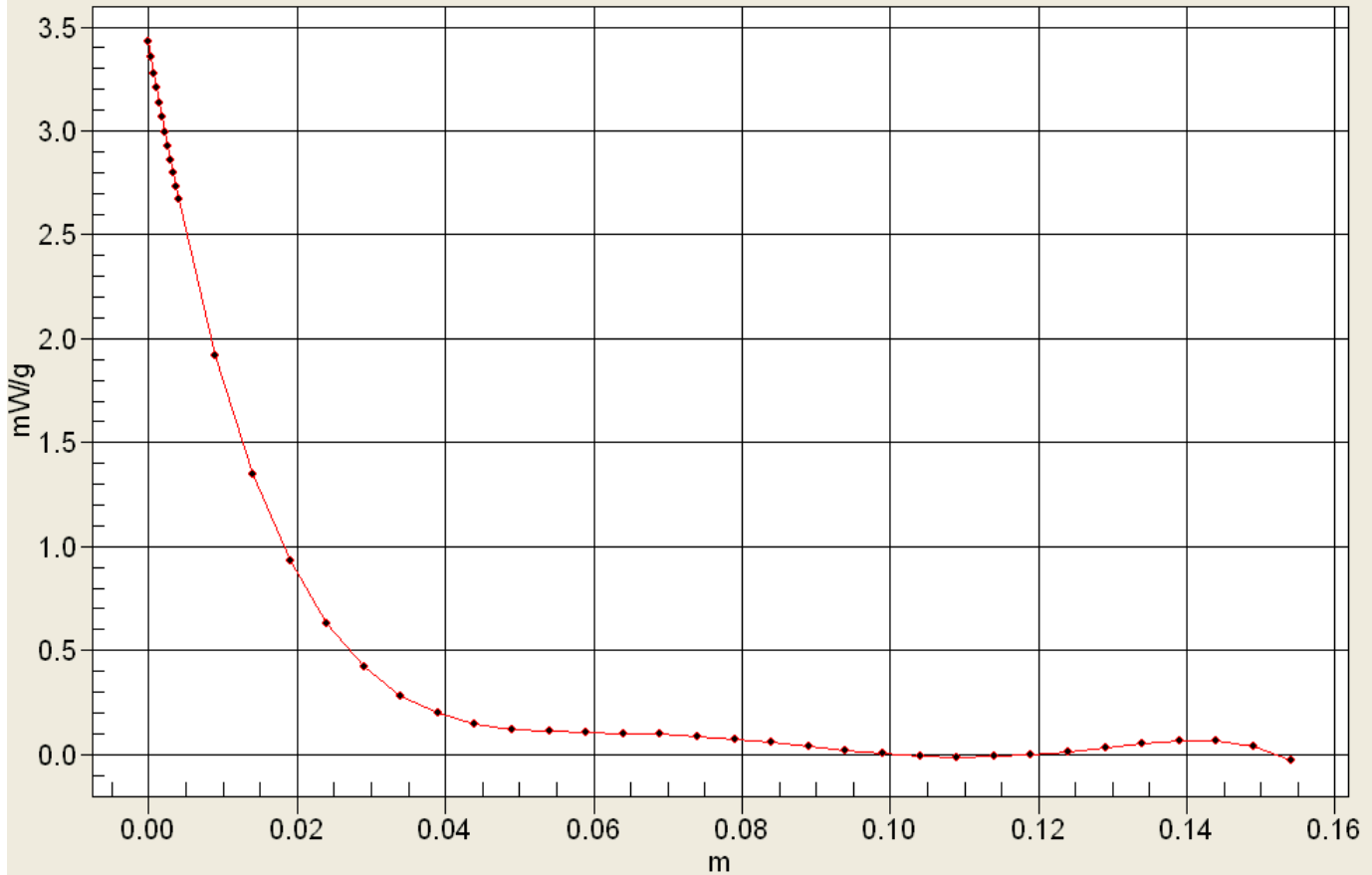
Maximum value of SAR (measured) = 2.75 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Date/Time: 10/01/2015 11:13:07 AM

SPC 150H - 10 Jan 2015

DUT: Dipole 150 MHz CLA-150; Type: CLA-150; Serial: 4007; Calibrated: 4 March 2014

Program Notes: 10 Jan 2015 Ambient Temp: 21C; Fluid Temp: 22.2C; Humidity: 13%

Procedure Notes: 150MHz CLA, 1.0W Input, 150B TSL, TS=3.89

Communication System: CW

Frequency: 150 MHz; Duty Cycle: 1:1

Medium: TSL_150H Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.77 \text{ mho/m}$; $\epsilon_r = 51.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.8, 9.8, 9.8); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Head d=0mm, Pin = 1.0W, TS = [3.474][3.86][4.246]/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 3.75 mW/g

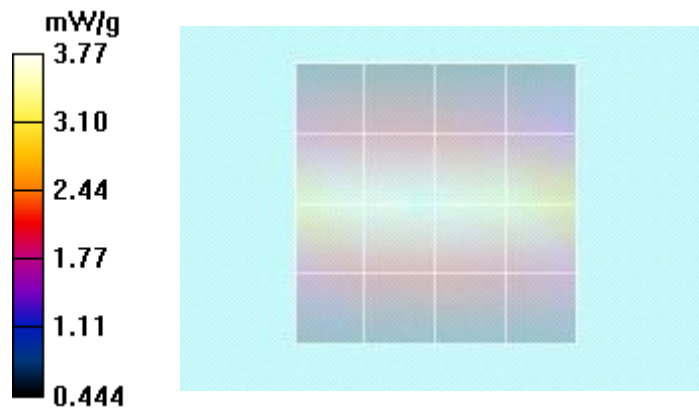
Head d=0mm, Pin = 1.0W, TS = [3.474][3.86][4.246]/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 70.0 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 5.45 W/kg

SAR(1 g) = 3.52 mW/g; SAR(10 g) = 2.32 mW/g

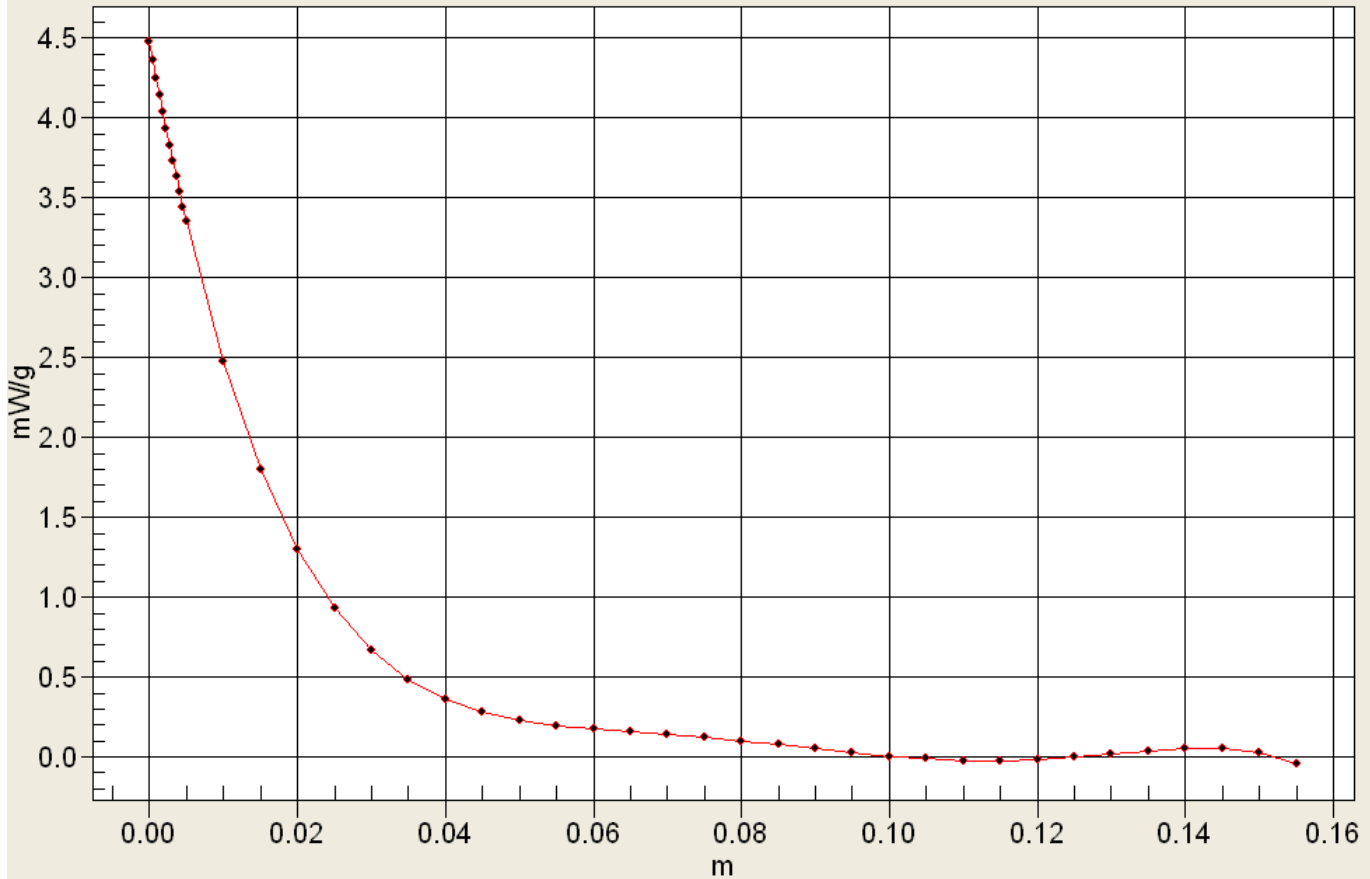
Maximum value of SAR (measured) = 3.77 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Date/Time: 14/01/2015 11:22:49 AM

SPC 150B - 14 Jan 2015

DUT: Dipole 150 MHz CLA-150; Type: CLA-150; Serial: 4007; Calibrated: 4 March 2014

Program Notes: 10 Dec 2014 Ambient Temp: 23C; Fluid Temp: 22.9C; Humidity: 17%

Procedure Notes: 150MHz CLA, 1.0W Input, 150B TSL, TS=3.89

Communication System: CW

Frequency: 150 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.79 \text{ mho/m}$; $\epsilon_r = 62.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body d=0mm, Pin = 1.0W, TS = [3.501][3.89][4.279]/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.19 mW/g

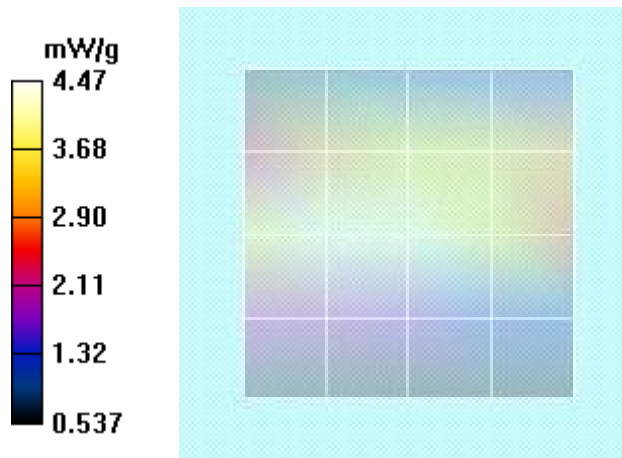
Body d=0mm, Pin = 1.0W, TS = [3.501][3.89][4.279]/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 25.0 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 6.42 W/kg

SAR(1 g) = 4.15 mW/g; SAR(10 g) = 2.76 mW/g

Maximum value of SAR (measured) = 4.47 mW/g



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Date/Time: 15/01/2015 2:57:06 PM

SPC 150B - 15 Jan 2015

DUT: Dipole 150 MHz CLA-150; Type: CLA-150; Serial: 4007; Calibrated: 4 March 2014

Program Notes: 15 Jan 2015 Ambient Temp: 24C; Fluid Temp: 24.4C; Humidity: 13%

Procedure Notes: 150MHz CLA, 1.0W Input, 150B TSL, TS=3.89

Communication System: CW

Frequency: 150 MHz; Duty Cycle: 1:1

Medium: TSL_150B Medium parameters used: $f = 150 \text{ MHz}$; $\sigma = 0.84 \text{ mho/m}$; $\epsilon_r = 65.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.81, 8.81, 8.81); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body d=0mm, Pin = 1.0W, TS = [3.501][3.89][4.279]/Area Scan (5x5x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.47 mW/g

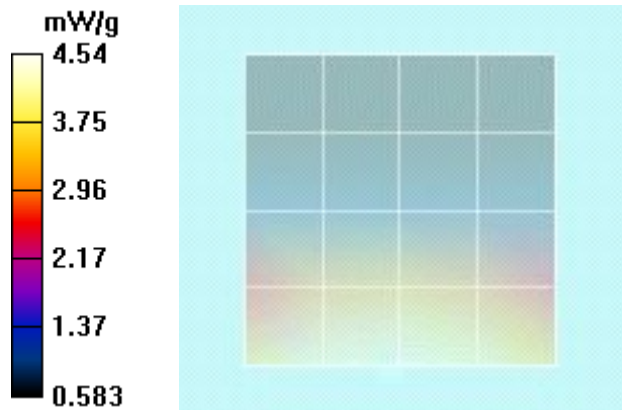
Body d=0mm, Pin = 1.0W, TS = [3.501][3.89][4.279]/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 72.4 V/m; Power Drift = -0.038 dB

Peak SAR (extrapolated) = 6.53 W/kg

SAR(1 g) = 4.24 mW/g; SAR(10 g) = 2.81 mW/g

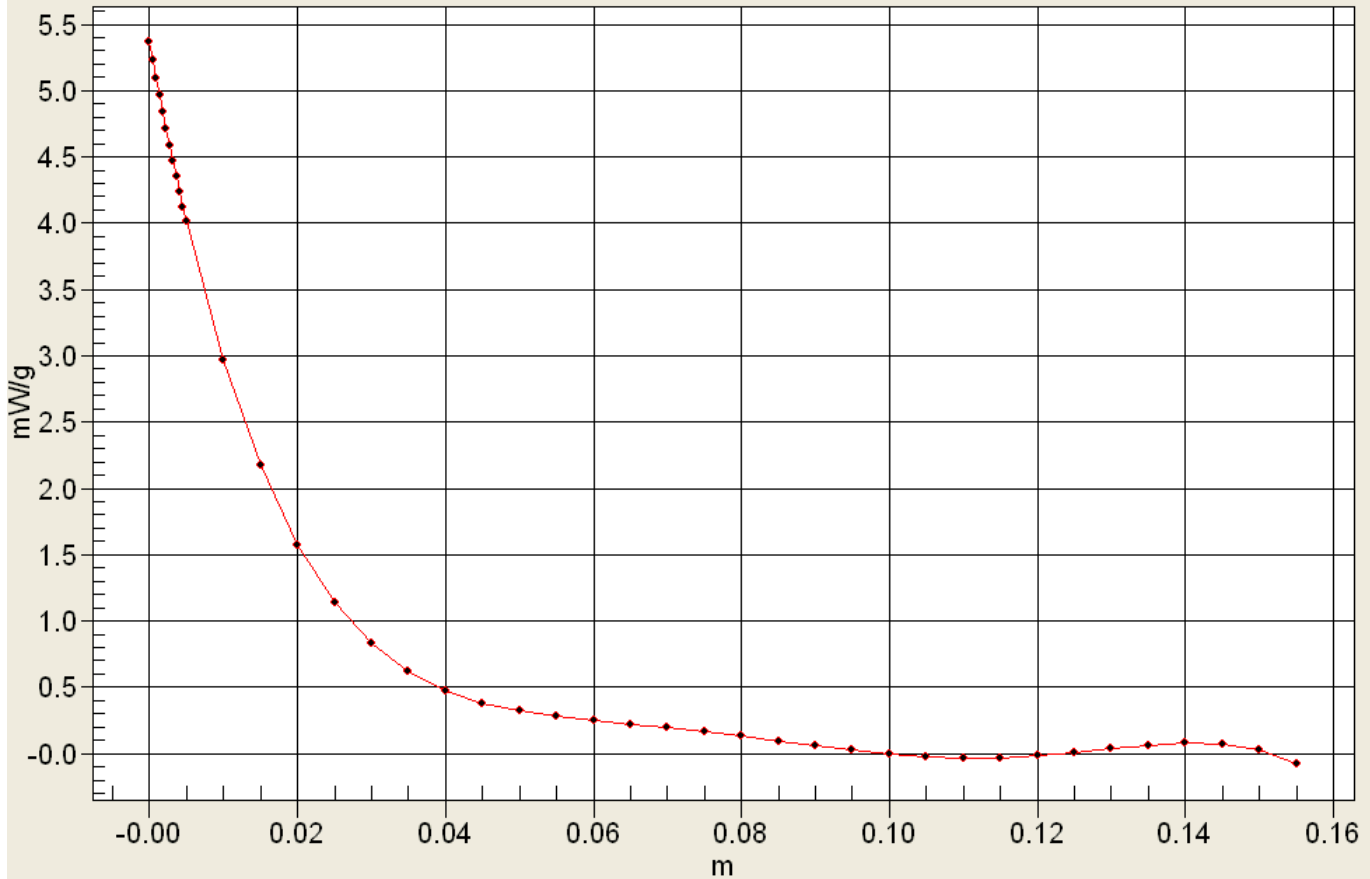
Maximum value of SAR (measured) = 4.54 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Date/Time: 16/01/2015 3:45:41 PM

SPC 835 Head - 16 Jan 2015

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 04/20/2012

Program Notes: 16 Jan 2015 Ambient Temp: 27C; Fluid Temp: 23.9C; Humidity: 12%

Procedure Notes:

Communication System: CW

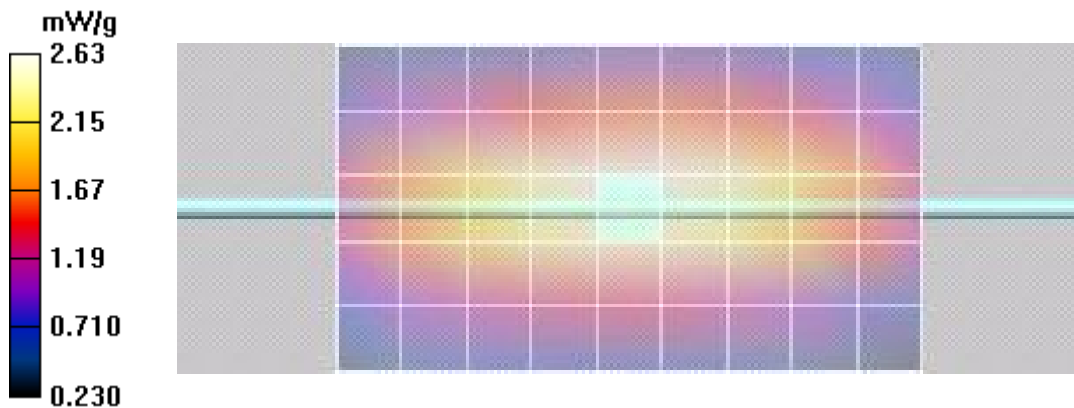
Frequency: 835 MHz; Duty Cycle: 1:1

Medium: TSL_835H Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.88 \text{ mho/m}$; $\epsilon_r = 43$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.23, 8.23, 8.23); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Head d=15mm Pin=250mW. TS=2.124/2.36/2.596 W/kg/Area Scan (6x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.58 mW/g

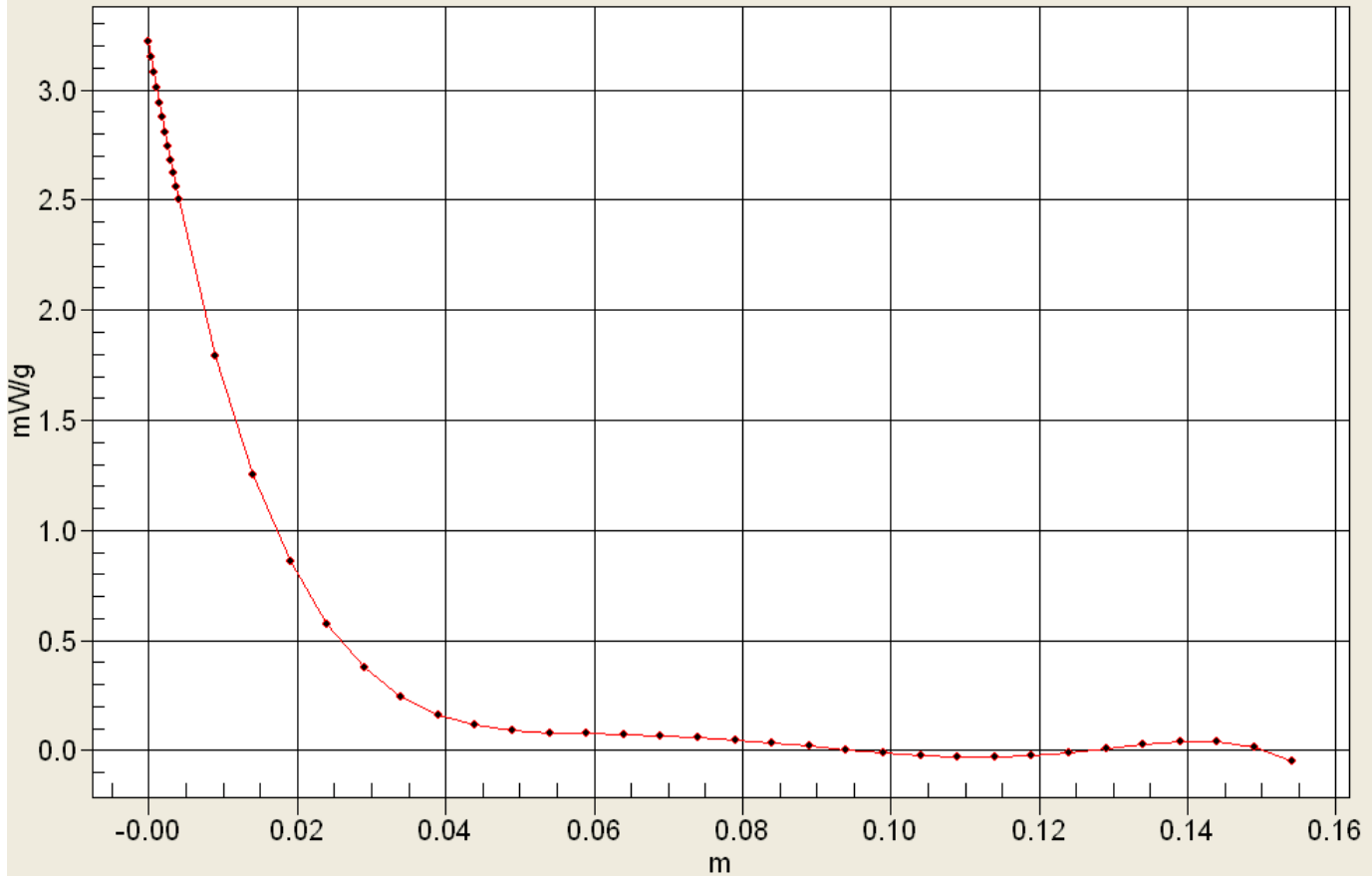
Head d=15mm Pin=250mW. TS=2.124/2.36/2.596 W/kg/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.2 V/m; Power Drift = -0.116 dB
Peak SAR (extrapolated) = 3.66 W/kg
SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.57 mW/g
Maximum value of SAR (measured) = 2.63 mW/g



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Interpolated 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> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date/Time: 20/01/2015 5:45:28 PM

SPC - 835 Body - 20 Jan 2015

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 04/20/2012

Program Notes: 20 Jan 2015 Ambient Temp: 27C; Fluid Temp: 24.4C; Humidity:12%

Procedure Notes:

Communication System: CW

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: TSL_835B Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 54.2$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(8.11, 8.11, 8.11); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body d=15mm Pin=250mW. TS=2.47W/kg/Area Scan (3x7x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.61 mW/g

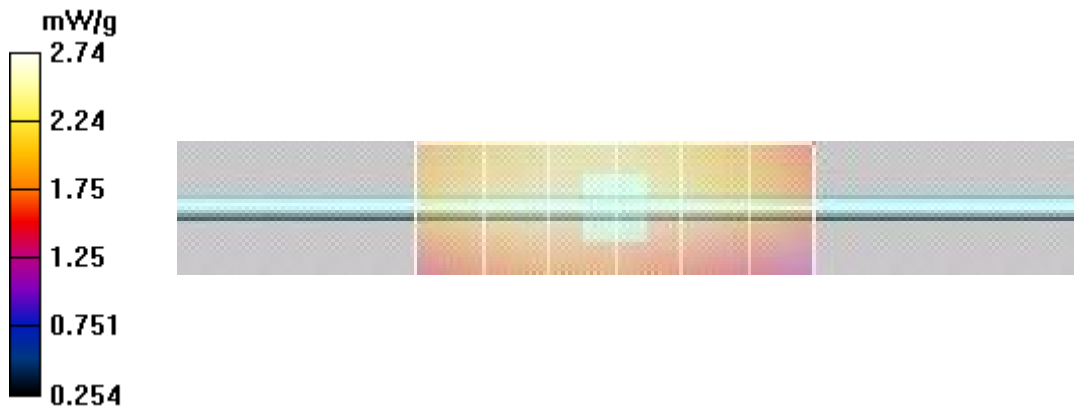
Body d=15mm Pin=250mW. TS=2.47W/kg/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 51.5 V/m; Power Drift = 0.006 dB

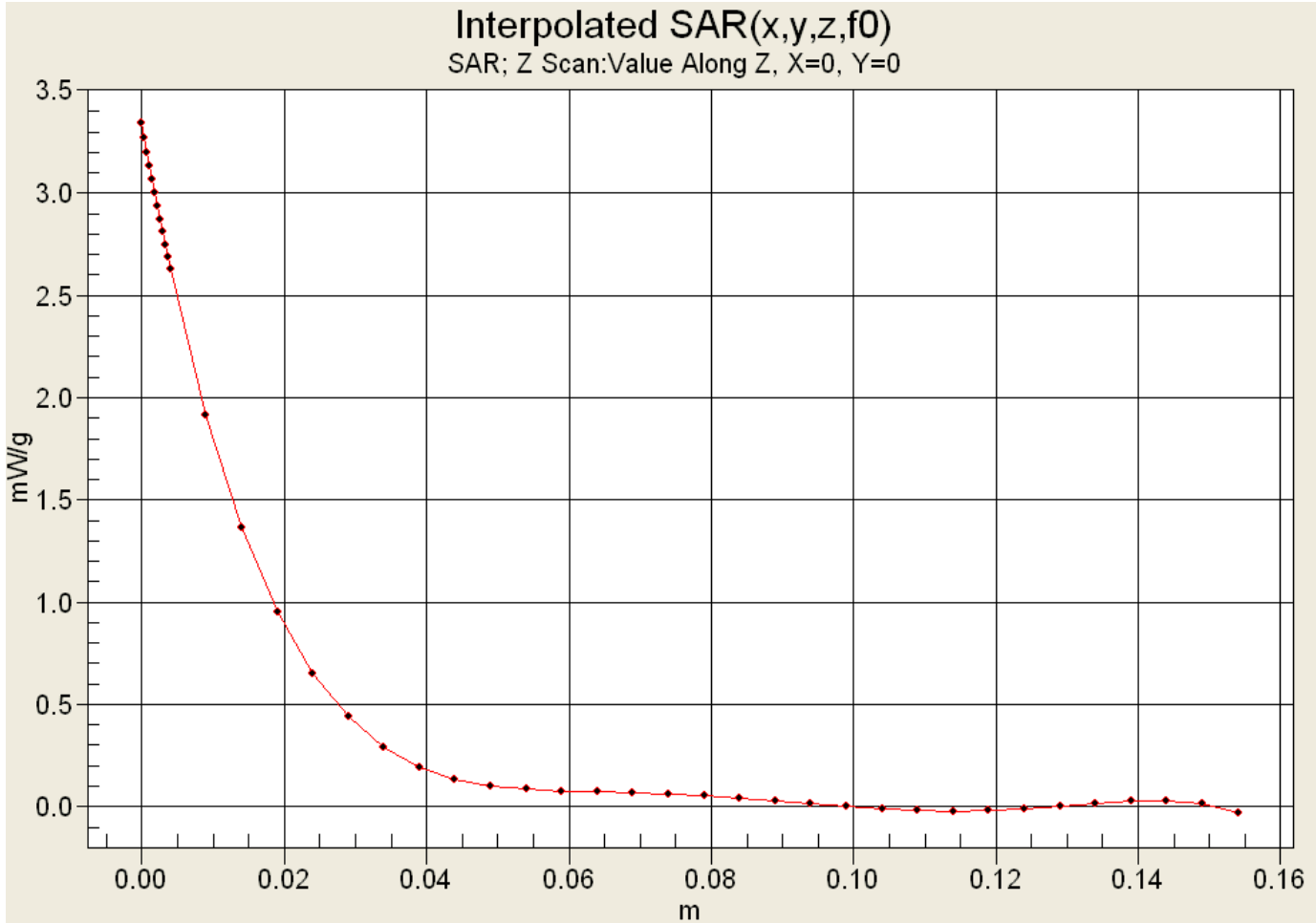
Peak SAR (extrapolated) = 3.77 W/kg

SAR(1 g) = 2.53 mW/g; SAR(10 g) = 1.64 mW/g

Maximum value of SAR (measured) = 2.74 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date/Time: 22/01/2015 10:31:34 AM

SPC 450B - 22 Jan 2015

DUT: Dipole 450 MHz; Type: D450V3; Serial: 1068; Calibrated: 04/27/2012

Program Notes: Jan 22 2015, Ambient Temp: 24C; Fluid Temp: 22.9C; Humidity: 13%

Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL_450B Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 55.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.05, 9.05, 9.05); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Body d=15mm Pin=398mW, TS=[1.629][1.81][1.991] 2/Area Scan (6x11x1): Measurement grid: dx=15mm, dy=15mm

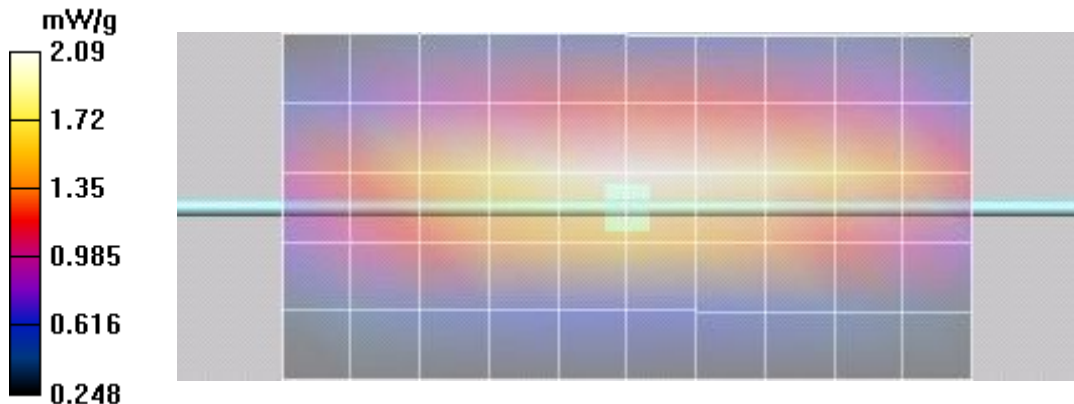
Maximum value of SAR (measured) = 2.09 mW/g

Body d=15mm Pin=398mW, TS=[1.629][1.81][1.991] 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 46.1 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 2.87 W/kg

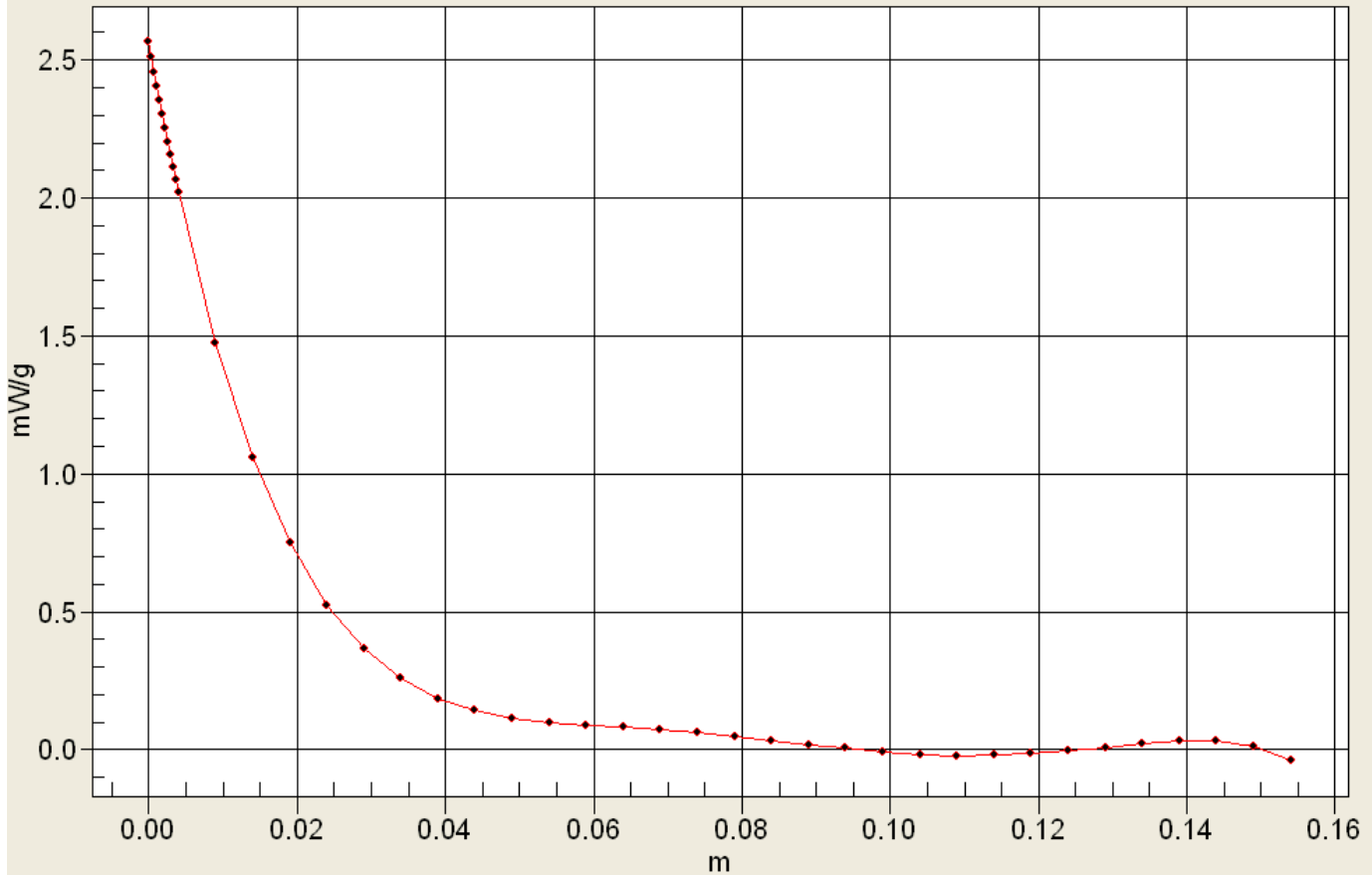
SAR(1 g) = 1.97 mW/g; SAR(10 g) = 1.33 mW/g



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Interpolated SAR(x,y,z,f0)

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



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Date/Time: 22/01/2015 6:58:46 PM

SPC 450H - 22 Jan 2015

DUT: Dipole 450 MHz; Type: D450V3; Serial: 1068; Calibrated: 04/27/2012

Program Notes: 22 Jan 2015 Ambient Temp: 27C; Fluid Temp: 24.1C; Humidity: 12%

Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL_450H Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 44.5$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(9.4, 9.4, 9.4); Calibrated: 15/04/2014
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 09/04/2014
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Head d=15mm Pin=398mW, TS=[1.683][1.87][2.057]/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.90 mW/g

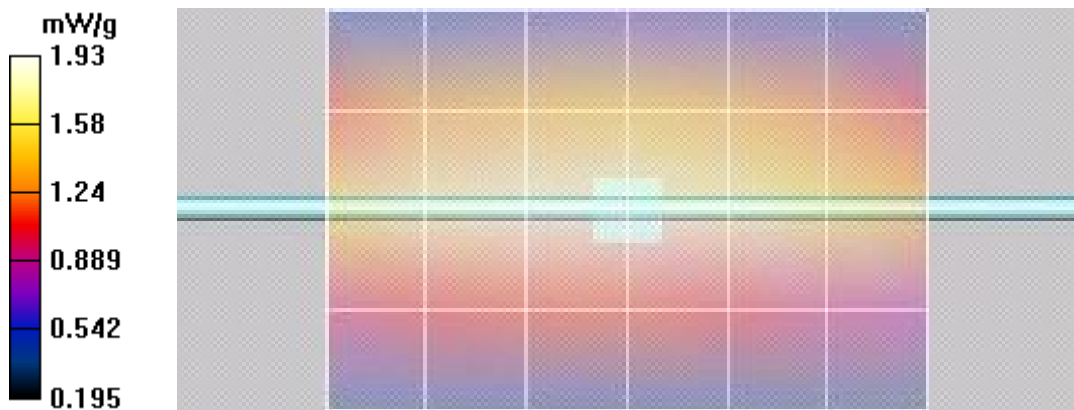
Head d=15mm Pin=398mW, TS=[1.683][1.87][2.057]/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 46.8 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 2.67 W/kg

SAR(1 g) = 1.8 mW/g; SAR(10 g) = 1.19 mW/g

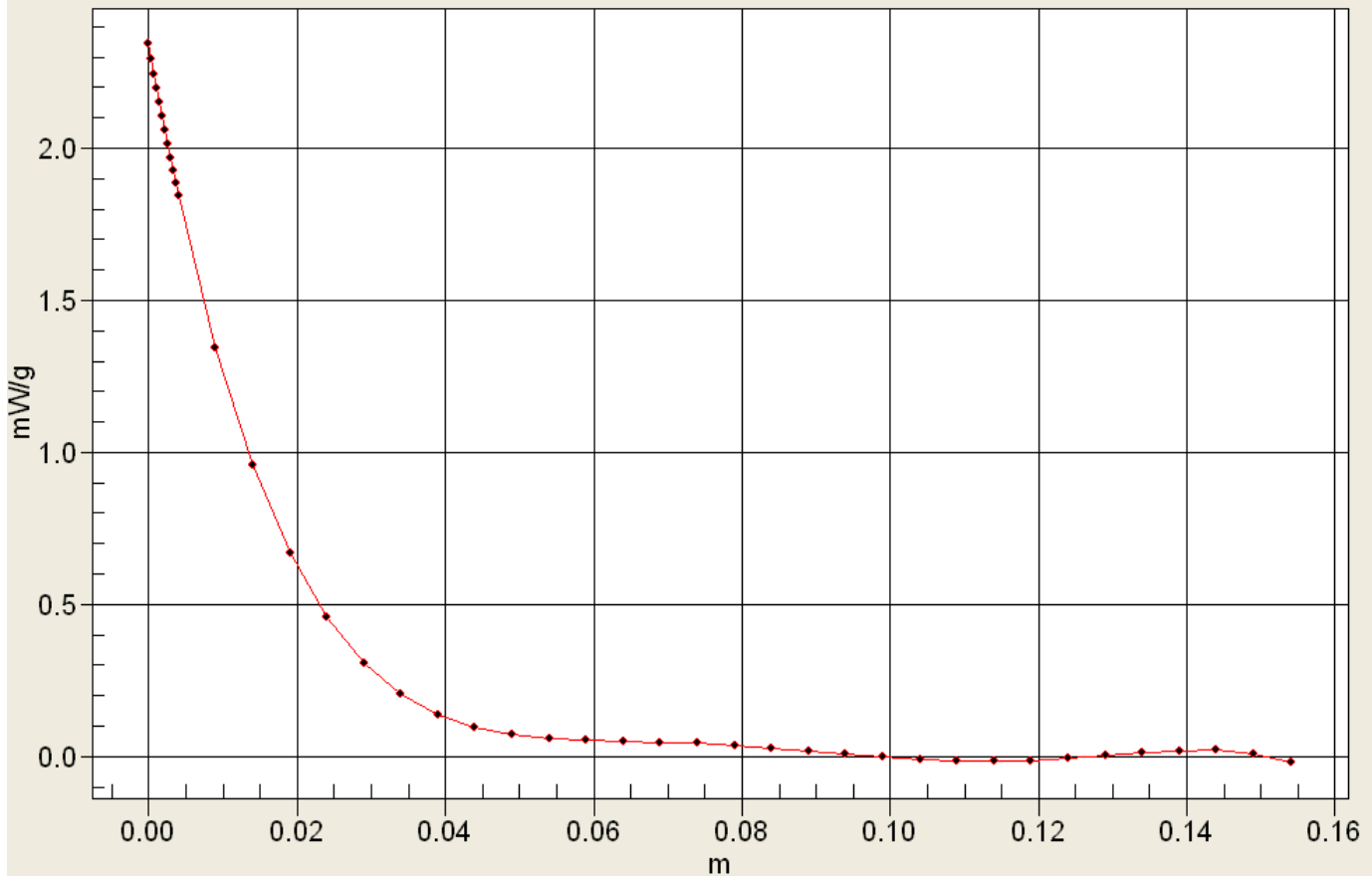
Maximum value of SAR (measured) = 1.93 mW/g



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	<u>Test Report Issue Date</u> Sep 21, 2016	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Interpolated SAR(x,y,z,f0)
SAR; Z Scan: Value Along Z, X=0, Y=0



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