

<b>Prüfbericht-Nr.:</b> Test Report No.:	17032143 006	<b>Auftrags-Nr.:</b> Order No.:	164003749	Seite 1 von 20 Page 1 of 20
<b>Kunden-Referenz-Nr.:</b> Client Reference No.:	N/A	<b>Auftragsdatum:</b> Order date:	22.03.2013	
<b>Auftraggeber:</b> Client:	KEEN HIGH TECHNOLOGIES LTD., Block A1 & A2, Ze Da Li Industrial Park, Tangwei Area, Fuyong, Bao'an, Shenzhen, Guangdong, China			
<b>Prüfgegenstand:</b> Test item:	Tablet			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type No.:	NS-14T004			
<b>Auftrags-Inhalt:</b> Order content:	FCC/IC Certification			
<b>Prüfgrundlage:</b> Test specification:	CFR Title 47 Part 2 Subpart J Section 2.1093 IEEE 1528-2003	ANSI/IEEE C95.1-1992 FCC OET Bulletin 65 Supplement C (Edition 01-01)		
<b>Wareneingangsdatum:</b> Date of receipt:	22.03.2013			
<b>Prüfmuster-Nr.:</b> Test sample No.:	N/A			
<b>Prüfzeitraum:</b> Testing period:	17.05.2013 - 14.06.2013			
<b>Ort der Prüfung:</b> Place of testing:	Accurate Technology Co., Ltd.			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> Test result*:	Pass			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">14-06-2013</div> <div style="margin-right: 10px;">Owen Tian/Project Manager</div>  </div>		<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">14-06-2013</div> <div style="margin-right: 10px;">Sam Lin/Technical Certifier</div>  </div>		
<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position	<b>Unterschrift</b> Signature	<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
<p>* Legende: 1 = sehr gut      2 = gut      3 = befriedigend      4 = ausreichend      5 = mangelhaft  P(ass) = entspricht o.g. Prüfgrundlage(n)      F(ail) = entspricht nicht o.g. Prüfgrundlage(n)      N/A = nicht anwendbar      N/T = nicht getestet</p> <p>Legend: 1 = very good      2 = good      3 = satisfactory      4 = sufficient      5 = poor  P(ass) = passed a.m. test specification(s)      F(ail) = failed a.m. test specification(s)      N/A = not applicable      N/T = not tested</p>				
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

## STATEMENT OF COMPLIANCE

TEST ITEM	SPECIFICATION	RESULT
Specific Absorption Rate - Wi-Fi 802.11 b/g/n - 2.4GHz Band	OET Bulletin 65 Supplement C (Edition 01-01): <i>Evaluating compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields</i>	PASS
Specific Absorption Rate - Wi-Fi 802.11 a/n - 5.2GHz Band	OET Bulletin 65 Supplement C (Edition 01-01): <i>Evaluating compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields</i>	PASS
Specific Absorption Rate - Wi-Fi 802.11 a/n - 5.8GHz Band	OET Bulletin 65 Supplement C (Edition 01-01): <i>Evaluating compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields</i>	PASS

This device complies with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in CFR Title 47 Part 2 Subpart J Section 2.1093 and ANSI/IEEE C95.1-1992.

This device have been testd in accordance with the measurement methods and procedure specified in IEEE 1528-2003 and FCC OET Bulletin 65 Supplement C (edition 01-01).

Refer to the maximum results of Specific Absorption Rate (SAR) durning testing as below.

FREQUENCY BAND	EXPOSURE POSITION	EQUIPMENT CLASS	HIGHEST REPORTED SAR VALUE (W/KG)
802.11 b/g/n - 2.4GHz Band	Body	DTS	0.435
802.11 a/n - 5.8GHz Band	Body		0.490
802.11 a/n - 5.2GHz Band	Body	NII	0.353

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## 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: System Performance Check  
Appendix B: Test Plots of SAR Measurement  
Appendix C: Calibration Certificate

## 2. Test Sites

### 2.1 Test Facilities

Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block 52, Shenzhen Science & Industry Park Nantou, Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
SAR Test System	Speag	DASY5 TX60L SAR	N/A	June.4,2015
Wireless Communication Test Set	Agilent	E5515C	GB44300243	May.08, 2014
Power Meter	Anritsu	ML2487A	6K00002472	May.08, 2014
Power Sensor	Anritsu	MA2491A	032516	May.08, 2014
Signal Generator	Marconi	2031B	119606/058	May.08, 2014
Amplifier	Milmega	AS0206-50	1036253	NCR
Dipole Antenna	Speag	D2450V2	862	June.22, 2013
Dipole Antenna	Speag	D5GHzV2	1102	Mar.14, 2014
Attenuator	Agilent	8491A 3dB	MY3926200 1	May.08, 14
Attenuator	Agilent	8491A 10dB	MY3926437 5	May.08, 14
DAE	Speag	DAE4	899	July.25, 2013
E-Field Probe	Speag	EX3DV3	3139	July.25, 2013
E-Field Probe	Speag	EX3DV4	3767	July.27, 2013

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a 10.1" tablet with Wi-Fi, Bluetooth & GPS function.  
For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

Table 2: Technical Specification

Device type:	Portable device			
EUT Name:	Tablet			
Type Identification:	NS-14T004			
FCC ID:	XUZNS-14T004			
IC number:	10558A-NS14T004			
Operating mode(s) / WiFi:	802.11b	802.11g/n	802.11a/n (5.2GHz)	802.11a/n (5.8GHz)
Test modulation	DSSS	OFDM	OFDM	OFDM
Transmit Frequency Range (MHz):	2412-2462	2412-2462	5180-5240	5745-5825
Maximum tune-up average output power (dBm):	18	18 for 801.11g 16.5 for 802.11n	11	16
Operating mode(s) / Bluetooth:	Bluetooth 2.1+EDR			
Test modulation	GFSK, $\pi/4$ DQPSK, 8DPSK			
Transmit Frequency Range (MHz):	2402-2480			
Maximum tune-up average output power (dBm):	5			
Hardware version:	JRO03C			
Software version:	0.0.3-test-keys			
Antenna type:	Integrated antenna			
Battery options:	DC 3.7V			

**Table 3: List of WLAN Channel of 802.11 b/g/n mode**

802.11 b		802.11 g		802.11 n (HT20)	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2412	1	2412	1	2412
2	2417	2	2417	2	2417
3	2422	3	2422	3	2422
4	2427	4	2427	4	2427
5	2432	5	2432	5	2432
6	2437	6	2437	6	2437
7	2442	7	2442	7	2442
8	2447	8	2447	8	2447
9	2452	9	2452	9	2452
10	2457	10	2457	10	2457
11	2462	11	2462	11	2462

**Table 4: List of WLAN Channel of 802.11 a/g mode**

802.11 a		802.11 n (HT20)	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	36	5180
40	5200	40	5200
44	5220	44	5220
48	5240	48	5240
149	5745	149	5745
153	5765	153	5765
157	5785	157	5785
161	5805	161	5805
165	5825	165	5825

**Table 5: List of Bluetooth Channel**

Bluetooth	
Channel Number	Frequency (MHz)
0	2402
39	2441
78	2480

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. WiFi transmitting
  - 1. 802.11 b
    - a) CH1
    - b) CH6
    - c) CH11
  - 2. 802.11 a
    - a) CH36
    - b) CH48
    - c) CH149
    - d) CH157
    - e) CH165
- B. Off

### 3.4 Submitted Documents

- |                          |                      |
|--------------------------|----------------------|
| - Bill of Material       | - Circuit Diagram    |
| - Constructional Drawing | - Instruction Manual |
| - PCB Layout             | - Rating Label       |
| - Photo Document         |                      |



## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The EUT is commanded to operate at maximum transmitting power. The EUT shall use its internal transmitter. The antenna, battery and accessories shall be those specified by the manufacturer. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

**Table 6: Configuration of EUT**

Operation mode	Frequency Range (MHz)	Modulation	Default Test Channel			Power Control Level
			Low	Middle	High	
802.11 b/g/n	2412-2462	DSSS, OFDM	CH1	CH6	CH11	Test software was used to configure the EUT to transmit at maximum output power
802.11 a/n	5180-5240	OFDM	CH36	--	CH48	
	5745-5825	OFDM	CH149	CH157	CH165	
Bluetooth	2402-2480	FHSS	CH0	CH39	CH78	

## 4.2 Specific Absorption Rate (SAR) System Check

Dielectric parameters of the tissue simulating liquid were verified prior to the SAR evaluation using the dielectric probe kit and the network analyzer.

A system check measurement was made following the determination of the dielectric parameters of the tissue simulating liquid, using the dipole validation kit. A power level of 250 mW for 2.4GHz band or 100mW for 5GHz band as supplied to the dipole antenna, which was placed under the flat section of the twin SAM phantom. The system check results (dielectric parameters and SAR values) are given in the following table.

**Table 7: System Check Results of Dielectric Performance of Tissue Simulating Liquid**

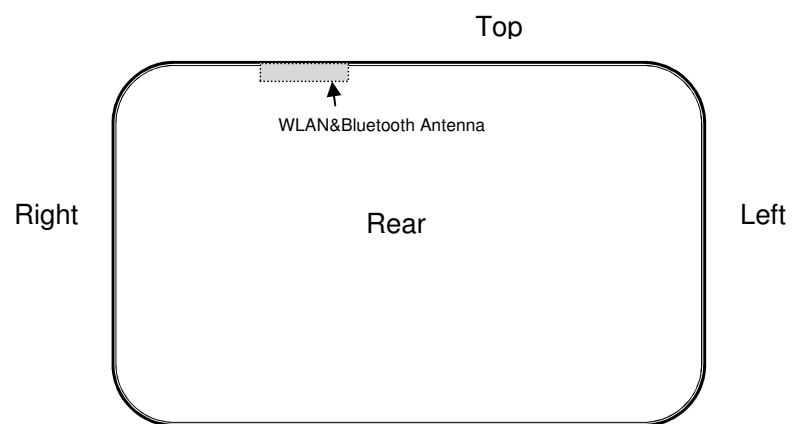
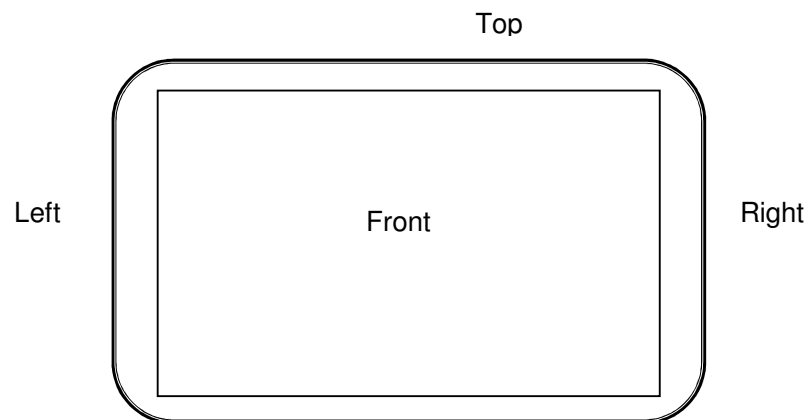
Used Target Frequency / Position	Target Tissue		Measured Tissue		Liquid Temp. (°C)
	$\epsilon_r$ (+/-5%)	$\sigma$ (S/m) (+/-5%)	$\epsilon_r$	$\sigma$ (S/m)	
2450 MHz / Body	52.70	1.95	53.34	1.969	20.1
5200 MHz / Body	49.0	5.30	48.61	5.35	20.3
5800 MHz / Body	48.2	6.00	47.79	6.10	20.2

$\epsilon_r$ = Relative permittivity,  $\sigma$ = Conductivity

**Table 8: System Check Results of System Verification**

System Check	Target SAR Value (1W) (+/-5%)	Measured SAR Value (Normalized to 1W)
	1-g (W/kg)	1-g (W/kg)
2450 MHz / Body	52.0	51.3
5200 MHz / Body	76.50	76.3
5800 MHz / Body	78.00	75.5

### 4.3 Exposure Positions Consideration



## 4.4 Test Operation and Test Software

Test operation refers to test setup in chapter 5.

A communication link is set up with the test mode software for WiFi mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode.

802.11 b/g/n operating modes are tested independently according to the service requirements in each frequency band. 802.11b/g/n modes are tested on channel 1, 6, 11. However, if output power reduction is necessary for channels 1 and/or 11 to meet restricted band requirements the highest output channel closest to each of these channels must be tested instead.

802.11 a/n is tested for UNII operations on channel 36 and 48 in 5.15-5.25GHz band. Also 5.8GHz band is also available for §15.247, hence channels 149, 157 and 165 should be tested instead of the UNII channels.

SAR is not required for 802.11g/n when the maximum average output power is less than ¼ dB higher than that measured on the corresponding 802.11b channels.

Each channel should be tested at the lowest data rate, and repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$  W/kg.

For each frequency band testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than ¼ dB higher than those measured at the lowest data rate.

## 4.5 Special Accessories and Auxiliary Equipment

None.

802.11 b/g/n	Conducted Power (dBm)					
	CH1 / 2412		CH6 / 2437		CH11 / 2462	
	Rated Average Power (dBm)	Measured Average Power (dBm)	Rated Average Power (dBm)	Measured Average Power (dBm)	Rated Average Power (dBm)	Measured Average Power (dBm)
802.11 b (1Mbps)	18	19.73	18	19.66	18	19.62
802.11 g (6Mbps)	16	17.19	16	17.38	16	17.24
802.11 n (MSC0, 6.5Mbps)	15	16.90	15	17.12	15	16.99

**Table 10: Conducted Power of 802.11 a/n**

Channel Number	Frequency (MHz)	Conducted Power (dBm)			
		802.11 a, 6 Mbps		802.11 n (HT20), MCS 0	
		Rated Average Power (dBm)	Measured Average Power (dBm)	Rated Average Power (dBm)	Measured Average Power (dBm)
36	5180.0	11	10.1	11	8.84
40	5200.0	11	9.35	11	8.94
44	5220.0	11	9.12	11	8.86
48	5240.0	11	9.16	11	8.84
149	5745.0	16	14.5	16	14.15
153	5765.0	16	14.66	16	14.49
157	5785.0	16	14.9	16	14.54
161	5805.0	16	15.13	16	14.84
165	5825.0	16	15.52	16	15.12

**Table 11: Conducted Power of Bluetooth**

Bluetooth	Conducted Power (dBm)		
	CH0 / 2402	CH39 / 2441	CH78 / 2480
Basic Data Rate	5.55	5.00	4.82
Enhanced Data Rate	5.11	4.14	4.24

Note:

According to KDB 447498 D01 v05r01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50\text{mm}$  are determined by:

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

The maximum output power of Bluetooth is 5.55dBm (3.59mW), and the minimum separation distance is 5mm, hence the exclusion thresholds is  $0.124 < 3.0$ , therefore RF exposure evaluation is not required.

**Table 12: Test result of SAR Values**

Operation Mode	Test Position	Separation Distance (cm)	Channel	Measure Level (1g) W/kg	Scaled SAR Value (W/kg)	Test Plots
802.11b	Rear	0	CH1	0.604	0.406	1
	Rear	0	CH6	0.602	0.411	2
	Rear	0	CH11	0.632	<b>0.435</b>	3
	Left	0	CH1	0.044	0.030	4
	Left	0	CH6	0.057	0.039	5
	Left	0	CH11	0.069	0.048	6
	Right	0	CH1	0.00993	0.007	7
	Right	0	CH6	0.014	0.010	8
	Right	0	CH11	0.019	0.013	9
	Top	0	CH1	0.150	0.101	10
	Top	0	CH6	0.156	0.106	11
	Top	0	CH11	0.190	0.131	12
802.11a	Rear	0	CH36	0.258	0.317	13
	Rear	0	CH48	0.321	<b>0.490</b>	14
	Rear	0	CH149	0.250	<b>0.353</b>	15
	Rear	0	CH157	0.229	0.295	16
	Rear	0	CH165	0.244	0.273	17
	Top	0	CH36	0.169	0.208	18
	Top	0	CH48	0.174	0.266	19
	Top	0	CH149	0.159	0.225	20
	Top	0	CH157	0.174	0.224	21
	Top	0	CH165	0.102	0.114	22
	Left	0	CH36	0.112	0.138	23
	Left	0	CH48	0.118	0.180	24
	Left	0	CH149	0.101	0.143	25
	Left	0	CH157	0.0596	0.077	26
	Left	0	CH165	0.0818	0.091	27
	Right	0	CH36	0.00296	0.004	28
	Right	0	CH48	0.00529	0.008	29
	Right	0	CH149	0.00616	0.009	30
	Right	0	CH157	0.0135	0.017	31
	Right	0	CH165	0.00816	0.009	32

Refer to attached Appendix B for details of test results.

## 5.2 Measurement Uncertainty

### 5.2.1 Measurement uncertainty evaluation

This measurement uncertainty budget is suggested by IEEE P1528. The breakdown of the individual uncertainties is as follows:

**Table 13: Measurement Uncertainties**

Source	Type	Uncertainty Value (%)	Probability Distribution	K	C1 (1g)	C1 (10g)	Standard uncertainty ul(%)1g	Standard uncertainty ul(%)10g	Degree of freedom Veff or Vi
<b>Measurement system repetivity</b>	A	0.5	N	1		1	0.5	0.5	9
Probe calibration	B	5.9	N	1	1	1	5.9	5.9	∞
Isotropy	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
Linearity	B	4.7	R	$\sqrt{3}$	1	1	2.7	2.7	∞
Probe modulation response	B	0	R	$\sqrt{3}$	1	1	0	0	∞
Detection limits	B	1.0	R	$\sqrt{3}$	1	1	0.6	0.6	∞
Boundary effect	B	1.9	R	$\sqrt{3}$	1	1	1.1	1.1	∞
Readout electronics	B	1.0	N	1	1	1	1.0	1.0	∞
Response time	B	0	R	$\sqrt{3}$	1	1	0	0	∞
Integration time	B	4.32	R	$\sqrt{3}$	1	1	2.5	2.5	∞
RF ambient conditions – noise	B	0	R	$\sqrt{3}$	1	1	0	0	∞
RF ambient conditions – reflections	B	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mech. restrictions	B	0.4	R	$\sqrt{3}$	1	1	0.2	0.2	∞
Probe positioning with respect to phantom shell	B	2.9	R	$\sqrt{3}$	1	1	1.7	1.7	∞
Post-processing	B	0	R	$\sqrt{3}$	1	1	0	0	∞
<b>Test sample related</b>									
Device holder uncertainty	A	2.94	N	1	1	1	2.94	2.94	M-1
Test sample positioning	A	4.1	N	1	1	1	4.1	4.1	M-1
Power scaling	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞
Drift of output power (measured SAR drift)	B	5.0	R	$\sqrt{3}$	1	1	2.9	2.9	∞



<b>Phantom and set-up</b>									
Phantom uncertainty (shape and thickness tolerances)	B	4.0	R	√3	1	1	2.3	2.1	∞
Algorithm for correcting SAR for deviations in permittivity and conductivity	B	1.9	N	1	1	0,84	1,9	1,6	∞
Liquid conductivity (meas.)	A	0.55	N	1	0.78	0.71	0.24	0.21	M-1
Liquid permittivity (meas.)	A	0.19	N	1	0.23	0.26	0.09	0.06	M
Liquid permittivity – temperature uncertainty	A	5.0	R	√3	0,78	0,71	1.4	1.1	∞
Liquid conductivity – temperature uncertainty	A	5.0	R	√3	0.23	0,26	1.2	0.8	∞
<b>Combined standard uncertainty</b>	$u_c = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$						<b>10.57</b>	<b>10.32</b>	
<b>Expanded uncertainty (95 %conf. interval)</b>	$u_e = 2u_c$		N	K=2			<b>21.14</b>	<b>20.64</b>	

## 6. Photographs of the Test Set-Up

**Photograph 1: Set-up for Rear side**



**Photograph 2: Set-up for Top side**



**Photograph 3: Set-up for Right side**



**Photograph 4: Set-up for Left side**



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Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### CW\_2450MHz

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:862**

Communication System: CW\_2450MHz); Frequency: 2450 MHz;

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 2$  S/m;  $\epsilon_r = 54.586$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAF4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/CW\_2450MHz/Area Scan (101x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 13.7 W/kg

#### Configuration/CW\_2450MHz/Zoom Scan (7x7x7)/Cube 0:

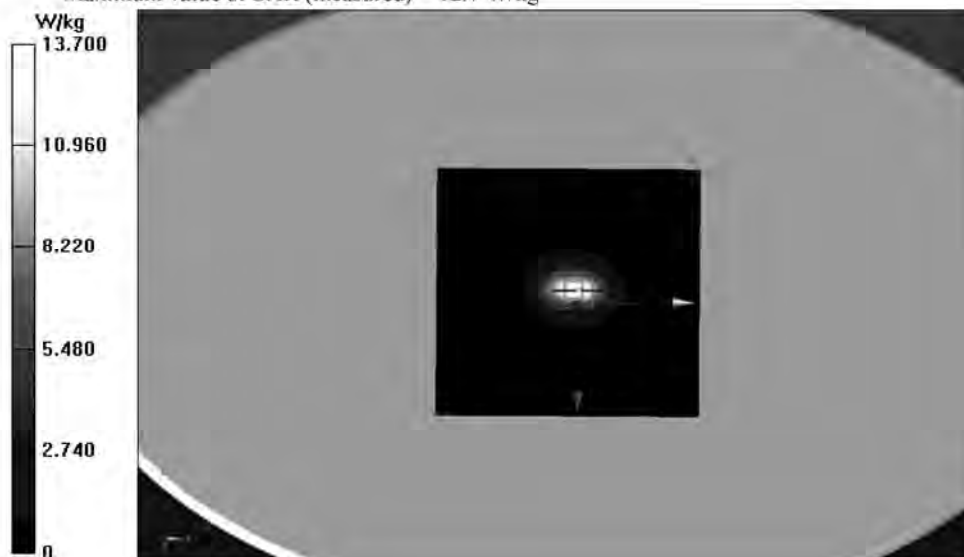
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 81.947 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 23.4 W/kg

**SAR(1 g) = 11.2 W/kg; SAR(10 g) = 5.19 W/kg**

Maximum value of SAR (measured) = 12.7 W/kg



Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### CW\_ 5200MHz

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102**

Communication System: IEEE 802.11a WiFi 5GHz ; Frequency: 5200 MHz

Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 5.44 \text{ mho/m}$ ;  $\epsilon_r = 48.61$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAF4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

#### Configuration/CW\_5200MHz/Area Scan (51x81x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $7.964 \text{ W/kg}$

#### Configuration/CW\_5200MHz/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $10.009 \text{ V/m}$ ; Power Drift =  $0.02 \text{ dB}$

Peak SAR (extrapolated) =  $6.518 \text{ mW/g}$

**SAR(1 g) =  $7.44 \text{ mW/g}$ ; SAR(10 g) =  $2.16 \text{ mW/g}$**

Maximum value of SAR (measured) =  $8.08 \text{ W/kg}$



Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### CW\_ 5800MHz

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102**

Communication System: IEEE 802.11a WiFi 5GHz ; Frequency: 5800 MHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 6.10 \text{ mho/m}$ ;  $\epsilon_r = 47.79$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAF4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

#### **Configuration/CW\_5800MHz/Area Scan (51x81x1):**

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $7.866 \text{ W/kg}$

#### **Configuration/CW\_5800MHz/Zoom Scan (7x7x7)/Cube 0:**

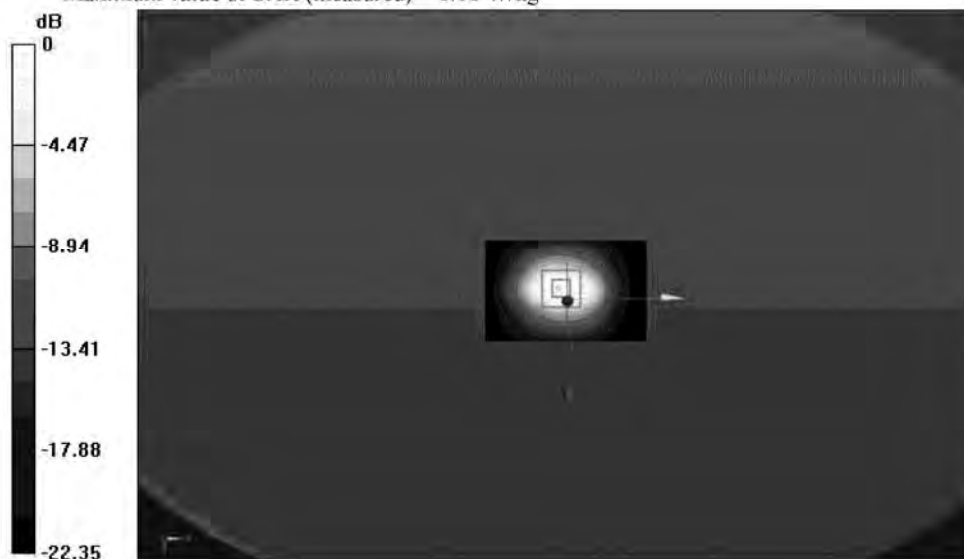
Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $10.010 \text{ V/m}$ ; Power Drift =  $0.05 \text{ dB}$

Peak SAR (extrapolated) =  $6.510 \text{ mW/g}$

**SAR(1 g) =  $8.14 \text{ mW/g}$ ; SAR(10 g) =  $2.22 \text{ mW/g}$**

Maximum value of SAR (measured) =  $8.18 \text{ W/kg}$





Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### CW\_ 5200MHz

**DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:862**

Communication System: IEEE 802.11a WiFi 5GHz ; Frequency: 5200 MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.44$  mho/m;  $\epsilon_r = 48.61$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAF4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

#### Configuration/802.11b\_CW\_5200MHz/Area Scan (51x81x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 7.934 W/kg

#### Configuration/802.11b\_CW\_5200MHz/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 10.012 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 6.518 mW/g

**SAR(1 g) = 7.47 mW/g; SAR(10 g) = 2.15 mW/g**

Maximum value of SAR (measured) = 8.06 W/kg





Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### CW\_ 5800MHz

**DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1102**

Communication System: IEEE 802.11a WiFi 5GHz ; Frequency: 5800 MHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 6.10 \text{ mho/m}$ ;  $\epsilon_r = 47.79$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAF4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

#### Configuration/802.11b\_CW5800MHz/Area Scan (51x81x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $7.898 \text{ W/kg}$

#### Configuration/802.11b\_CW5800MHz/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $10.113 \text{ V/m}$ ; Power Drift =  $0.07 \text{ dB}$

Peak SAR (extrapolated) =  $6.510 \text{ mW/g}$

**SAR(1 g) =  $8.11 \text{ mW/g}$ ; SAR(10 g) =  $2.16 \text{ mW/g}$**

Maximum value of SAR (measured) =  $8.09 \text{ W/kg}$



## Test Plots 1: Rear side, CH1, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH1-Back(2412MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 55.126$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11b\_CH1-Back/Area Scan (61x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.903 W/kg

#### Configuration/802.11b\_CH1-Back/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 12.555 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.58 W/kg

**SAR(1 g) = 0.604 W/kg; SAR(10 g) = 0.291 W/kg**

Maximum value of SAR (measured) = 0.686 W/kg



## Test Plots 2: Rear side, CH6, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH6-Back(2437MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz; Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 54.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11b\_CH6-Back/Area Scan (61x101x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.668 W/kg

#### **Configuration/802.11b\_CH6-Back/Zoom Scan (7x7x7)/Cube 0:**

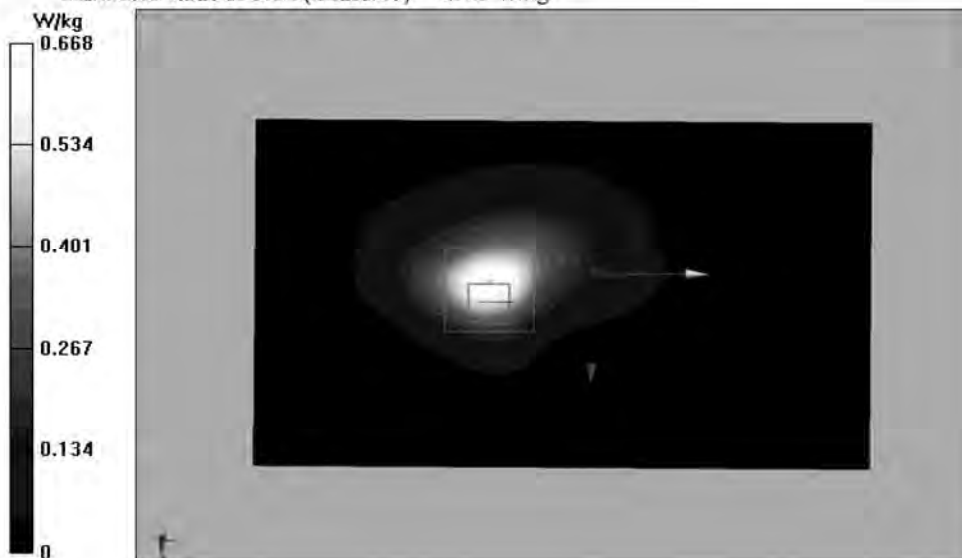
Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 9.259 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.602 W/kg; SAR(10 g) = 0.260 W/kg**

Maximum value of SAR (measured) = 0.689 W/kg



### Test Plots 3: Rear side, CH11, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

#### 802.11b\_CH11-Back(2462MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2462 MHz; Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.04$  S/m;  $\epsilon_r = 54.613$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11b\_CH11-Back/Area Scan (61x121x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.699 W/kg

#### **Configuration/802.11b\_CH11-Back/Zoom Scan (7x7x7)/Cube 0:**

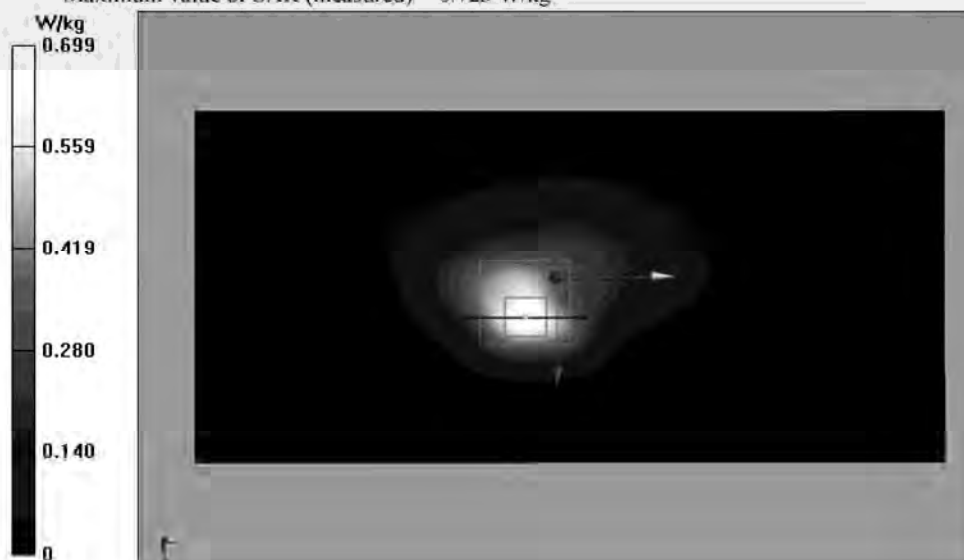
Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 12.902 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.75 W/kg

**SAR(1 g) = 0.632 W/kg; SAR(10 g) = 0.270 W/kg**

Maximum value of SAR (measured) = 0.723 W/kg



## Test Plots 4: Left side, CH1, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH1-Left(2412MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz; Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 54.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11b\_CH1-Left/Area Scan (41x101x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0531 W/kg

#### **Configuration/802.11b\_CH1-Left/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.181 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.114 W/kg

**SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.018 W/kg**

Maximum value of SAR (measured) = 0.0531 W/kg



## Test Plots 5: Left side, CH6, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH6-Left(2437MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz; Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 54.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11b\_CH6-Left/Area Scan (41x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0549 W/kg

#### Configuration/802.11b\_CH6-Left/Zoom Scan (7x7x7)/Cube 0:

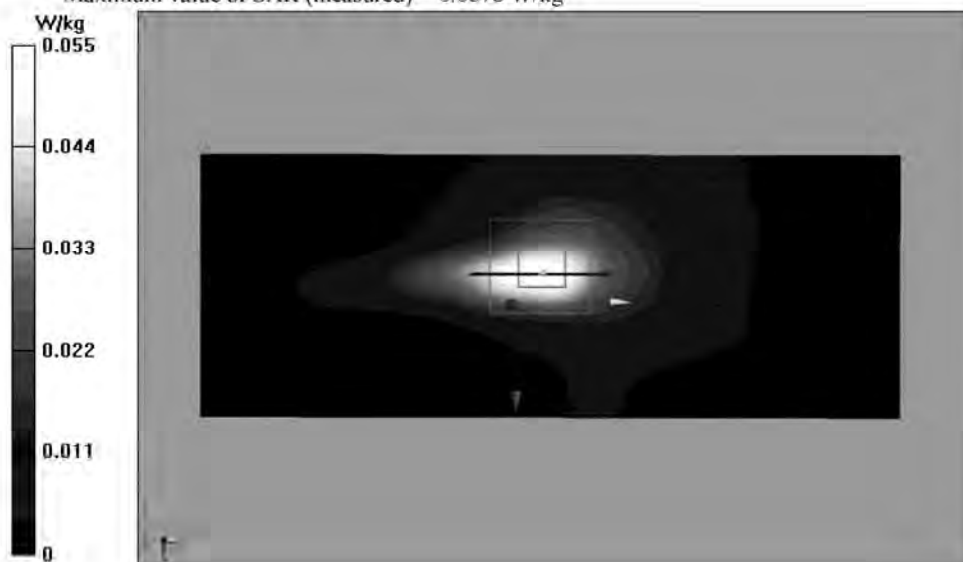
Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 5.095 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.154 W/kg

**SAR(1 g) = 0.057 W/kg; SAR(10 g) = 0.023 W/kg**

Maximum value of SAR (measured) = 0.0678 W/kg



## Test Plots 6: Left side, CH11, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH11-Left(2462MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2462 MHz; Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.04$  S/m;  $\epsilon_r = 54.613$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11b\_CH11-Left/Area Scan (41x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0657 W/kg

#### Configuration/802.11b\_CH11-Left/Zoom Scan (7x7x7)/Cube 0:

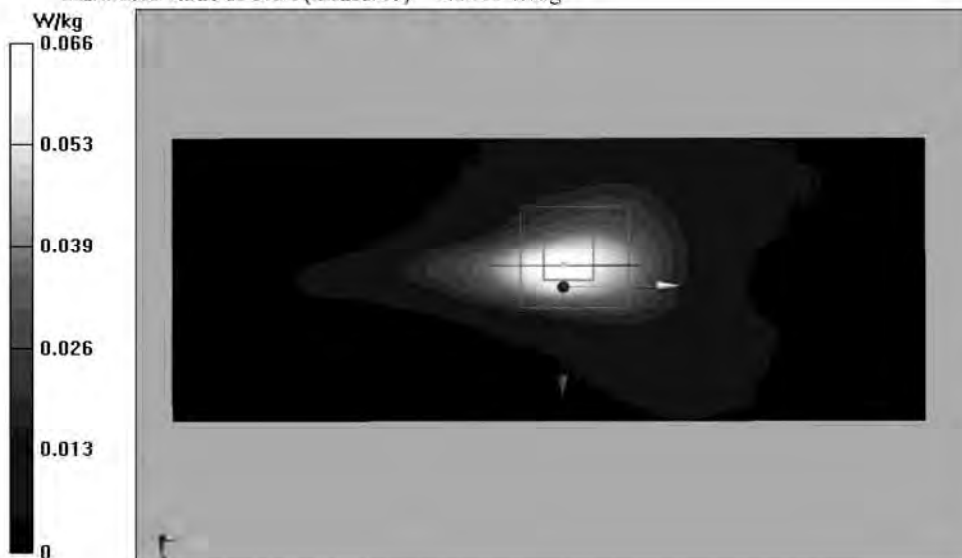
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.384 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.187 W/kg

**SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.027 W/kg**

Maximum value of SAR (measured) = 0.0811 W/kg



## Test Plots 7: Right side, CH1, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH1-Right(2412MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 55.126$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11b\_CH1-Right/Area Scan (41x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0210 W/kg

#### Configuration/802.11b\_CH1-Right/Zoom Scan (7x7x7)/Cube 0:

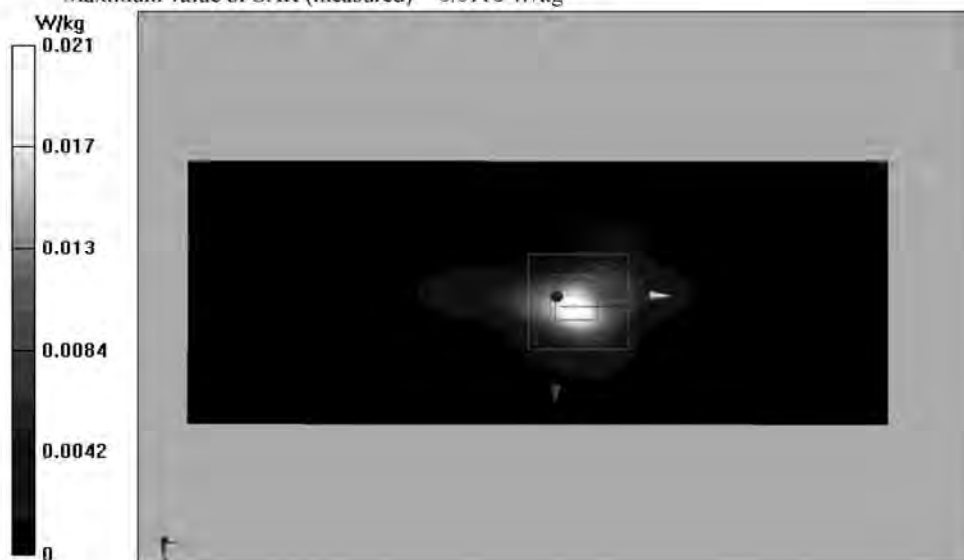
Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 2.123 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0220 W/kg

SAR(1 g) = 0.00993 W/kg; SAR(10 g) = 0.00387 W/kg

Maximum value of SAR (measured) = 0.0116 W/kg





## Test Plots 8: Right side, CH6, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH6-Right(2437MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz; Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 54.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

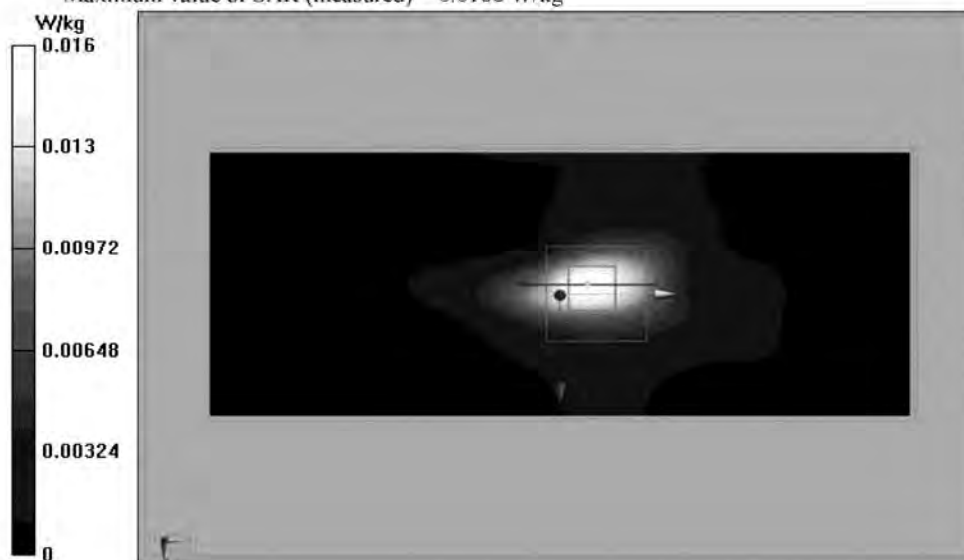
- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11b\_CH6-Right/Area Scan (41x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Maximum value of SAR (interpolated) = 0.0162 W/kg

#### Configuration/802.11b\_CH6-Right/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm  
Reference Value = 2.487 V/m; Power Drift = 0.17 dB  
Peak SAR (extrapolated) = 0.0350 W/kg  
**SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00539 W/kg**  
Maximum value of SAR (measured) = 0.0166 W/kg



## Test Plots 9: Right side, CH11, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH11-Right(2462MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2462 MHz; Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.04$  S/m;  $\epsilon_r = 54.613$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11b\_CH11-Right/Area Scan (41x101x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0197 W/kg

#### **Configuration/802.11b\_CH11-Right/Zoom Scan (7x7x7)/Cube 0:**

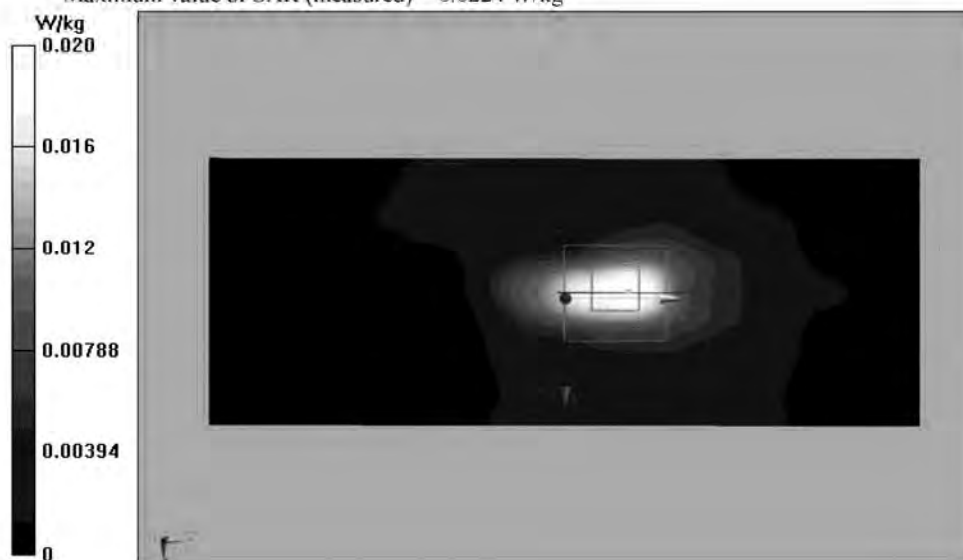
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.874 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.0690 W/kg

**SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.00763 W/kg**

Maximum value of SAR (measured) = 0.0224 W/kg



## Test Plots 10: Top side, CH1, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH1-Top(2412MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2412 MHz; Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 55.126$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11b\_CH1-Top/Area Scan (41x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.160 W/kg

#### Configuration/802.11b\_CH1-Top/Zoom Scan (7x7x7)/Cube 0:

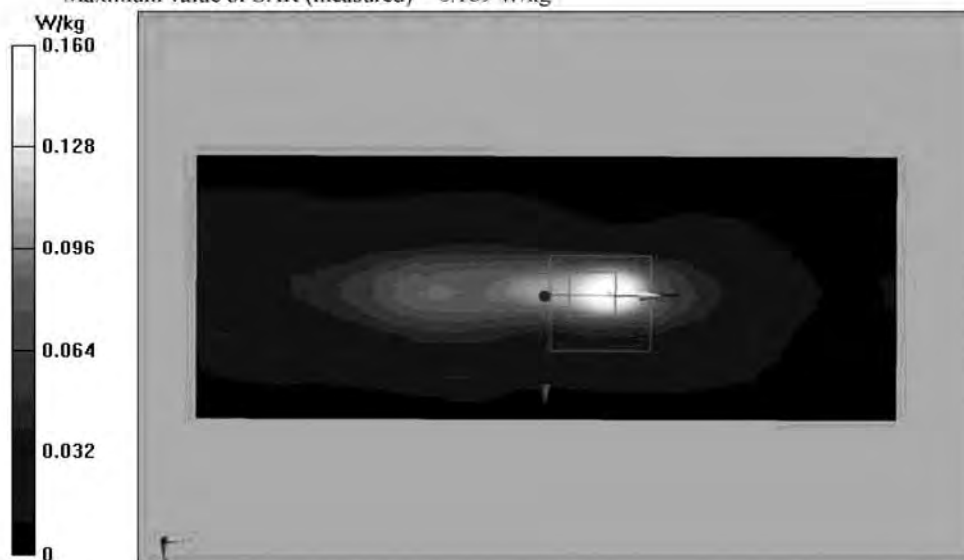
Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 7.321 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.425 W/kg

**SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.054 W/kg**

Maximum value of SAR (measured) = 0.169 W/kg



## Test Plots 11: Top side, CH6, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH6-Top(2437MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2437 MHz; Medium parameters used (interpolated):  $f = 2437$  MHz;  $\sigma = 1.962$  S/m;  $\epsilon_r = 54.869$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11b\_CH6-Top/Area Scan (41x101x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.168 W/kg

#### **Configuration/802.11b\_CH6-Top/Zoom Scan (7x7x7)/Cube 0:**

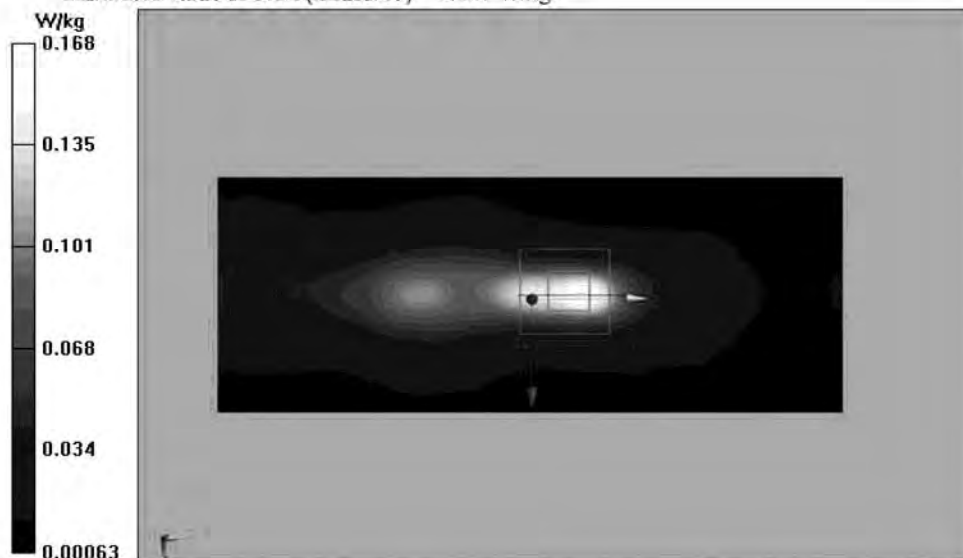
Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 8.385 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.375 W/kg

**SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.061 W/kg**

Maximum value of SAR (measured) = 0.187 W/kg



## Test Plots 12: Top side, CH11, 802.11b

Test Laboratory: Audix SAR Lab

Date: 17/05/2013

### 802.11b\_CH11-Top(2462MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps); Frequency: 2462 MHz; Medium parameters used:  $f = 2462$  MHz;  $\sigma = 2.04$  S/m;  $\epsilon_r = 54.613$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: ES3DV3 - SN3139; ConvF(4.16, 4.16, 4.16); Calibrated: 25/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11b\_CH11-Top/Area Scan (41x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.223 W/kg

#### Configuration/802.11b\_CH11-Top/Zoom Scan (7x7x7)/Cube 0:

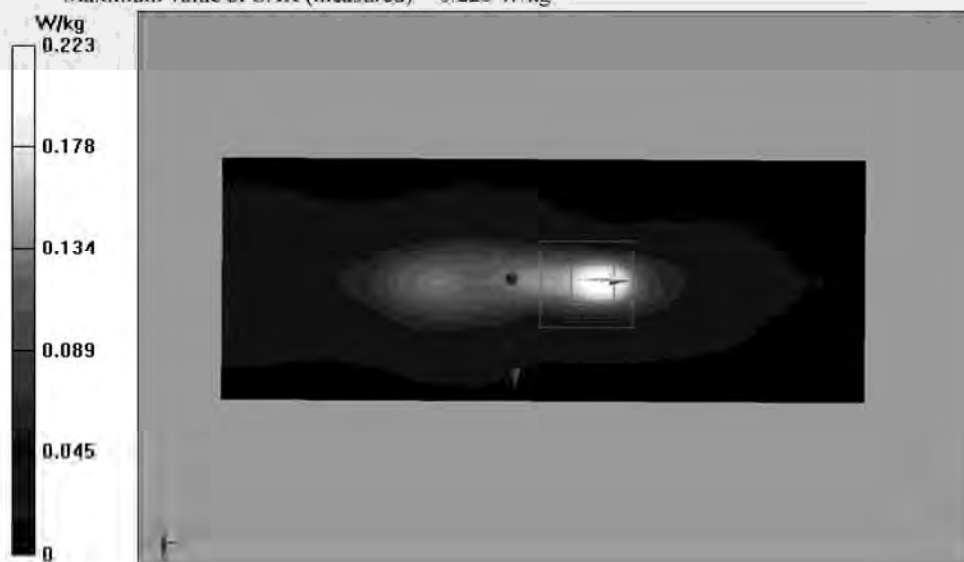
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 8.294 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.455 W/kg

**SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.074 W/kg**

Maximum value of SAR (measured) = 0.228 W/kg



## Test Plots 13: Rear side, CH36, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH36-Back(5180MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.2GHz ; Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.3$  S/m;  $\epsilon_r = 47.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH36-Back/Area Scan (61x81x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.248 W/kg

#### **Configuration/802.11a\_CH36-Back/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 1.416 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.811 W/kg

**SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.070 W/kg**

Maximum value of SAR (measured) = 0.321 W/kg



## Test Plots 14: Rear side, CH48, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH48-Back(5240MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.2GHz ; Frequency: 5240 MHz

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 5.5$  S/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH48-Back/Area Scan (51x61x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.346 W/kg

#### **Configuration/802.11a\_CH48-Back/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 1.632 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.981 W/kg

**SAR(1 g) = 0.321 W/kg; SAR(10 g) = 0.087 W/kg**

Maximum value of SAR (measured) = 0.405 W/kg



## Test Plots 15: Rear side, CH149, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH149-Back(5745MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH149-Back/Area Scan (51x61x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.231 W/kg

#### Configuration/802.11a\_CH149-Back/Zoom Scan (7x7x7)/Cube 0:

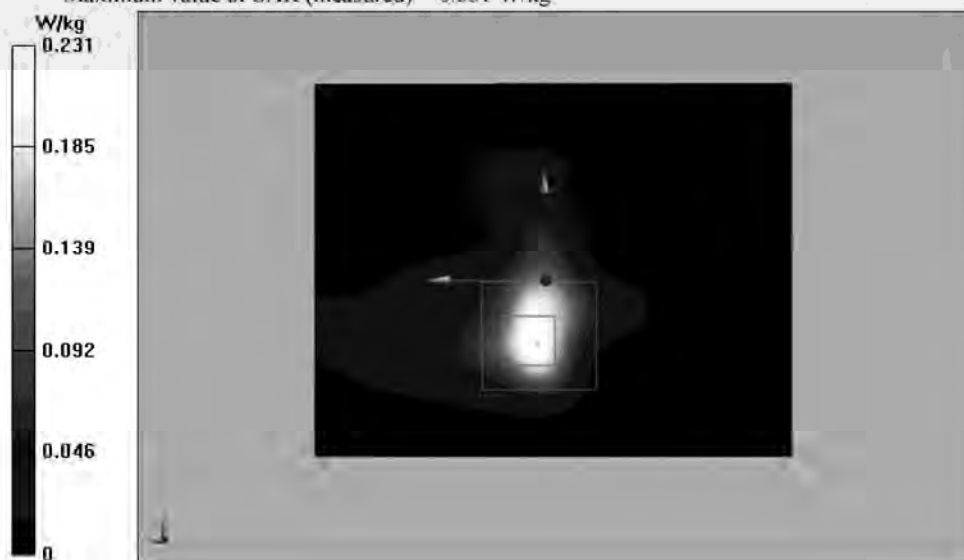
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.163 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.819 W/kg

SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.331 W/kg





## Test Plots 16: Rear side, CH157, 802.11a

Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### 802.11a\_CH157-Back(5785MHz)

#### DUT: NS-14T004

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5785 MHz

Medium parameters used:  $f = 5785$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH157-Back/Area Scan (61x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.310 W/kg

#### Configuration/802.11a\_CH157-Back/Zoom Scan (7x7x7)/Cube 0:

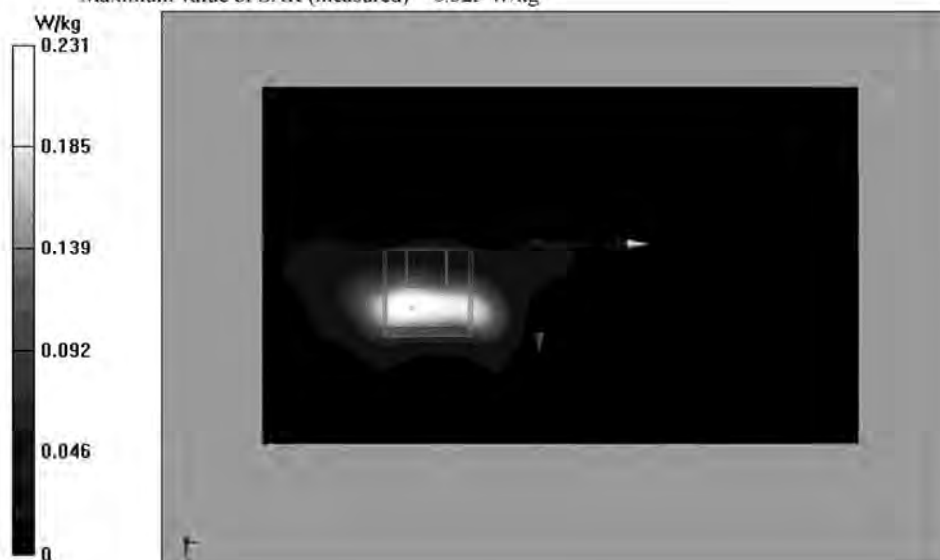
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 2.163 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.820 W/kg

SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.0245 W/kg

Maximum value of SAR (measured) = 0.325 W/kg



## Test Plots 17: Rear side, CH165, 802.11a

Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### 802.11a\_CH165-Back(5825MHz)

#### DUT: NS-14T004

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5825 MHz

Medium parameters used:  $f = 5825 \text{ MHz}$ ;  $\sigma = 6.07 \text{ S/m}$ ;  $\epsilon_r = 46$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH165-Back/Area Scan (61x101x1):

Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) =  $1.39 \text{ W/kg}$

#### Configuration/802.11a\_CH165-Back/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $1.984 \text{ V/m}$ ; Power Drift =  $-0.15 \text{ dB}$

Peak SAR (extrapolated) =  $2.42 \text{ W/kg}$

SAR(1 g) =  $0.244 \text{ W/kg}$ ; SAR(10 g) =  $0.370 \text{ W/kg}$

Maximum value of SAR (measured) =  $0.419 \text{ W/kg}$



## Test Plots 18: Top side, CH36, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH36-Top(5180MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.2GHz ; Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.3$  S/m;  $\epsilon_r = 47.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH36-Top/Area Scan (41x81x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.197 W/kg

#### **Configuration/802.11a\_CH36-Top/Zoom Scan (7x7x7)/Cube 0:**

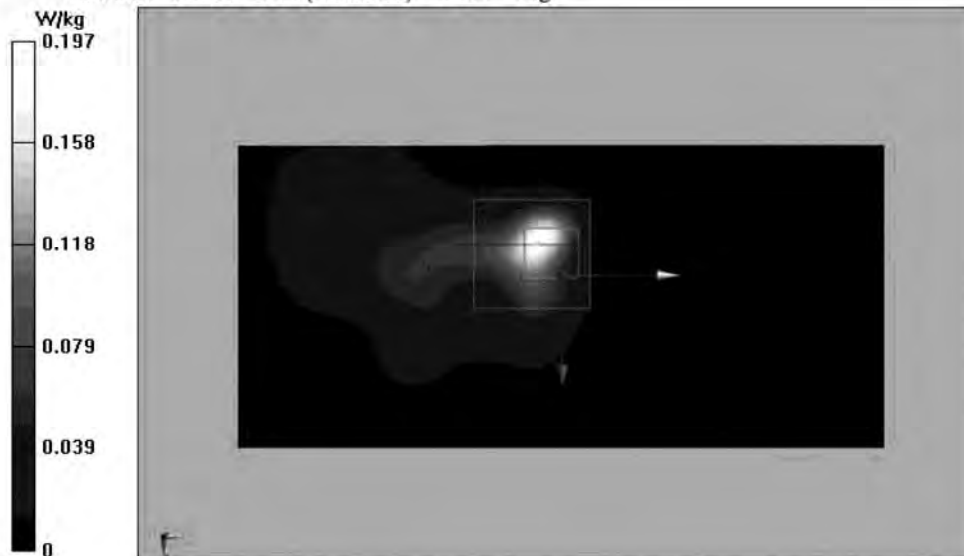
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.375 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.537 W/kg

**SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.044 W/kg**

Maximum value of SAR (measured) = 0.217 W/kg



## Test Plots 19: Top side, CH48, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH48-Top(5240MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.2GHz ; Frequency: 5240 MHz

Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.5$  S/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH48-Top/Area Scan (41x81x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.185 W/kg

#### Configuration/802.11a\_CH48-Top/Zoom Scan (7x7x7)/Cube 0:

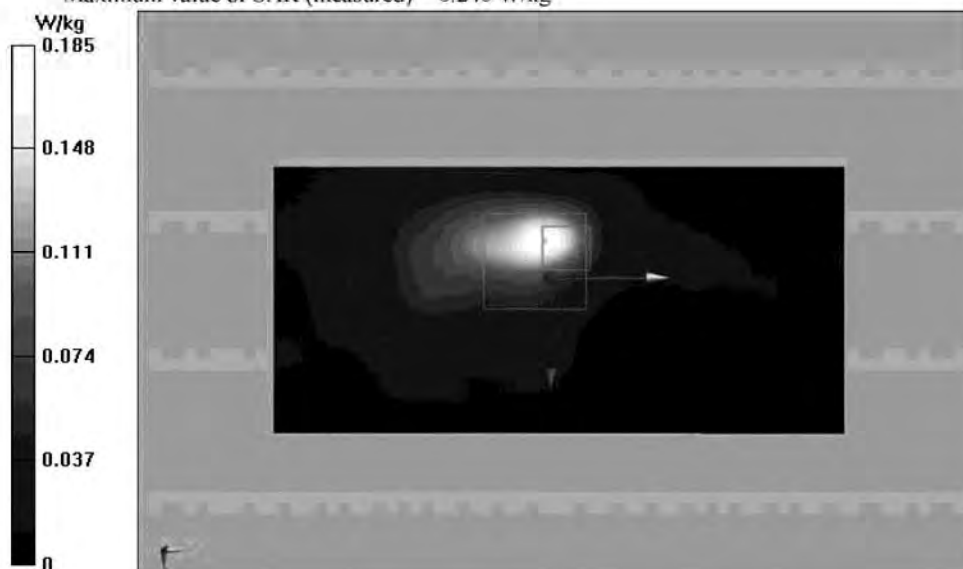
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.942 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.051 W/kg**

Maximum value of SAR (measured) = 0.240 W/kg



## Test Plots 20: Top side, CH149, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH149-Top(5745MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5745 MHz

Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH149-Top/Area Scan (41x81x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.141 W/kg

#### **Configuration/802.11a\_CH149-Top/Zoom Scan (7x7x7)/Cube 0:**

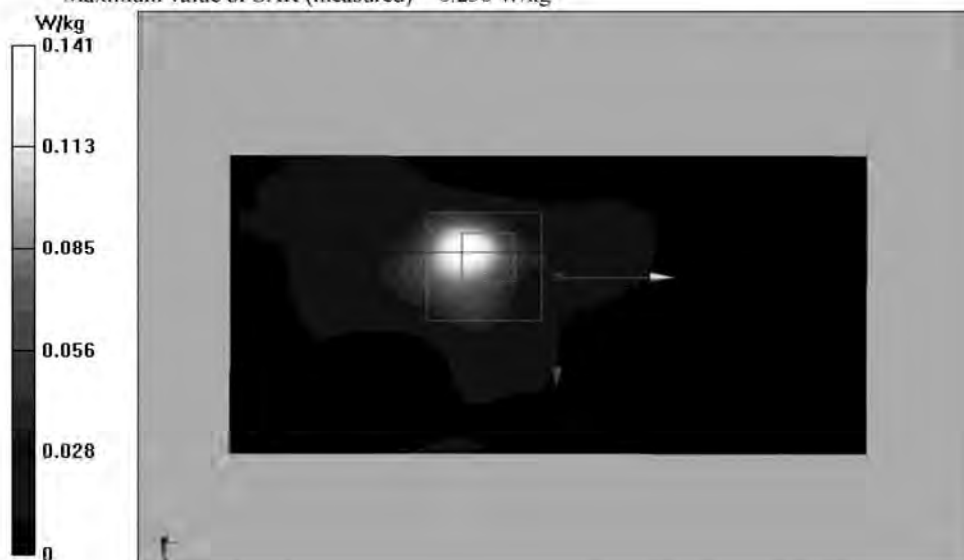
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.199 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.159 W/kg; SAR(10 g) = 0.039 W/kg**

Maximum value of SAR (measured) = 0.236 W/kg



## Test Plots 21: Top side, CH157, 802.11a

Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### 802.11a\_CH157-Top(5785MHz)

#### DUT: NS-14T004

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5785 MHz

Medium parameters used:  $f = 5785$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH157-Top/Area Scan (41x81x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.185 W/kg

#### Configuration/802.11a\_CH157-Top/Zoom Scan (7x7x7)/Cube 0:

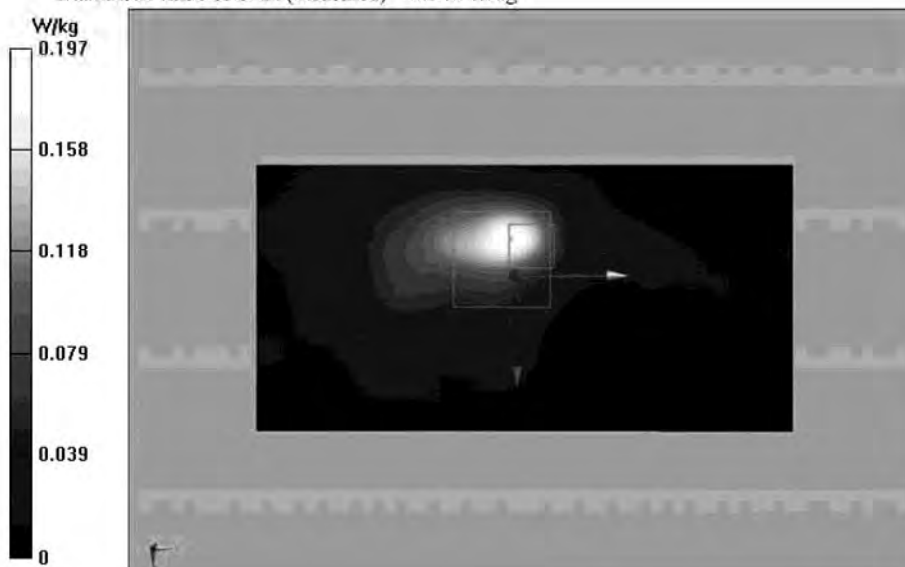
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.942 V/m; Power Drift = 0.53 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.051 W/kg

Maximum value of SAR (measured) = 0.240 W/kg



## Test Plots 22: Top side, CH165, 802.11a

Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### 802.11a\_CH165-Top(5825MHz)

#### DUT: NS-14T004

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH165-Top/Area Scan (41x81x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.141 W/kg

#### Configuration/802.11a\_CH165-Top/Zoom Scan (7x7x7)/Cube 0:

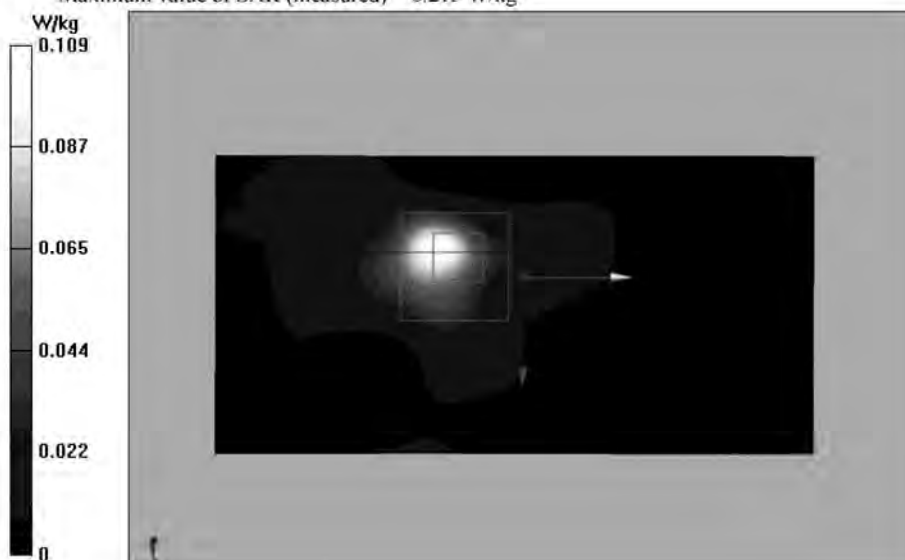
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.199 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.470 W/kg

SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.0325 W/kg

Maximum value of SAR (measured) = 0.215 W/kg



## Test Plots 23: Left side, CH36, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH36-Left(5180MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.2GHz ; Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.3$  S/m;  $\epsilon_r = 47.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH36-Left/Area Scan (51x61x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.162 W/kg

#### **Configuration/802.11a\_CH36-Left/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.944 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.362 W/kg

**SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.031 W/kg**

Maximum value of SAR (measured) = 0.133 W/kg





## Test Plots 24: Left side, CH48, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH48-Left(5240MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.2GHz ; Frequency: 5240 MHz

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 5.5$  S/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH48-Left/Area Scan (61x81x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0984 W/kg

#### **Configuration/802.11a\_CH48-Left/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.683 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.395 W/kg

**SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.031 W/kg**

Maximum value of SAR (measured) = 0.148 W/kg



## Test Plots 25: Left side, CH149, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH149-Left(5745MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH149-Left/Area Scan (81x101x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0930 W/kg

#### **Configuration/802.11a\_CH149-Left/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.734 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.365 W/kg

**SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.027 W/kg**

Maximum value of SAR (measured) = 0.148 W/kg



## Test Plots 26: Left side, CH157, 802.11a

Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### 802.11a\_CH157-Left(5785MHz)

#### DUT: NS-14T004

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5785 MHz

Medium parameters used:  $f = 5785$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH157-Left/Area Scan (81x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0627 W/kg

#### Configuration/802.11a\_CH157-Left/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.163 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.424 W/kg

SAR(1 g) = 0.0596 W/kg; SAR(10 g) = 0.022 W/kg

Maximum value of SAR (measured) = 0.065 W/kg



## Test Plots 27: Left side, CH165, 802.11a

Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### 802.11a\_CH165-Left(5825MHz)

#### DUT: NS-14T004

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH165-Left/Area Scan (61x81x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0981 W/kg

#### Configuration/802.11a\_CH165-Left/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.684 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.0818 W/kg; SAR(10 g) = 0.021 W/kg

Maximum value of SAR (measured) = 0.105 W/kg



## Test Plots 28: Right side, CH36, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH36-Right(5180MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.2GHz ; Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.3$  S/m;  $\epsilon_r = 47.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH36-Right/Area Scan (51x61x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0118 W/kg

#### Configuration/802.11a\_CH36-Right/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.230 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.0220 W/kg

**SAR(1 g) = 0.00296 W/kg; SAR(10 g) = 0.00172 W/kg**

Maximum value of SAR (measured) = 0.0103 W/kg



## Test Plots 29: Right side, CH48, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH48-Right(5240MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.2GHz ; Frequency: 5240 MHz

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 5.5$  S/m;  $\epsilon_r = 48.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.58, 4.58, 4.58); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH48-Right/Area Scan (81x101x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0218 W/kg

#### **Configuration/802.11a\_CH48-Right/Zoom Scan (7x7x7)/Cube 0:**

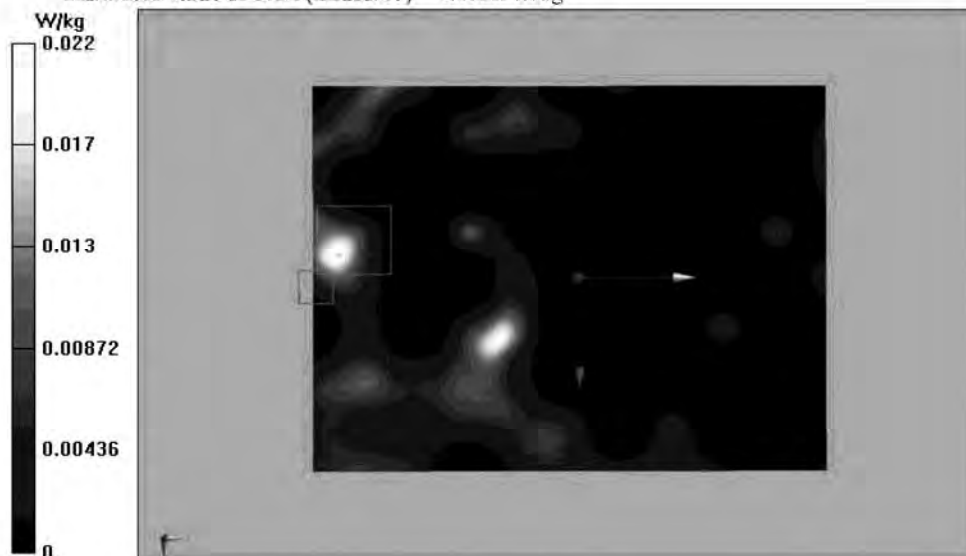
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.586 V/m; Power Drift = 0.20 dB

Peak SAR (extrapolated) = 0.0280 W/kg

**SAR(1 g) = 0.00529 W/kg; SAR(10 g) = 0.00227 W/kg**

Maximum value of SAR (measured) = 0.0122 W/kg



## Test Plots 30: Right side, CH149, 802.11a

Test Laboratory: Audix SAR Lab

Date: 18/05/2013

### 802.11a\_CH149-Right(5745MHz)

**DUT: MID M/N: NS-14T004**

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### **DASY5 Configuration:**

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### **Configuration/802.11a\_CH149-Right/Area Scan (81x101x1):**

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0178 W/kg

#### **Configuration/802.11a\_CH149-Right/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.500 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0360 W/kg

**SAR(1 g) = 0.00616 W/kg; SAR(10 g) = 0.00178 W/kg**

Maximum value of SAR (measured) = 0.0112 W/kg



## Test Plots 31: Right side, CH157, 802.11a

Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### 802.11a\_CH157-Right(5785MHz)

#### DUT: NS-14T004

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5785 MHz

Medium parameters used:  $f = 5785$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASYS2, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH157-Right/Area Scan (81x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0239 W/kg

#### Configuration/802.11a\_CH157-Right/Zoom Scan (7x7x7)/Cube 0:

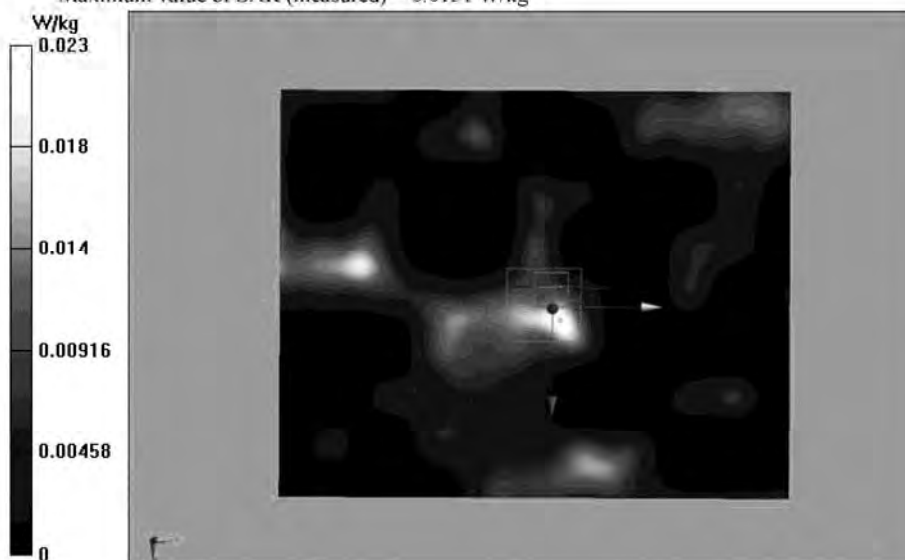
Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.714 V/m, Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0260 W/kg

SAR(1 g) = 0.0135 W/kg; SAR(10 g) = 0.00823 W/kg

Maximum value of SAR (measured) = 0.0151 W/kg





## Test Plots 32: Right side, CH165, 802.11a

Test Laboratory: Audix SAR Lab

Date: 14/06/2013

### 802.11a\_CH165-Right(5825MHz)

#### DUT: NS-14T004

Communication System: IEEE 802.11a WiFi 5.8GHz ; Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.07$  S/m;  $\epsilon_r = 46$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

#### DASY5 Configuration:

- Probe: EX3DV4 - SN3767; ConvF(4.22, 4.22, 4.22); Calibrated: 27/07/2012;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 25/07/2012
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1112
- Measurement SW: DASY52, Version 52.8 (5); SEMCAD X Version 14.6.8 (7028)

#### Configuration/802.11a\_CH165-Right/Area Scan (81x101x1):

Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0231 W/kg

#### Configuration/802.11a\_CH165-Right/Zoom Scan (7x7x7)/Cube 0:

Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 0.53 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.0260 W/kg

SAR(1 g) = 0.00816 W/kg; SAR(10 g) = 0.00323 W/kg

Maximum value of SAR (measured) = 0.0115 W/kg

