

# SAR TEST REPORT

The following samples were submitted and identified on behalf of the client as:

<b>Equipment Under Test</b>	PDA Phone
<b>Model No.</b>	C2004
<b>Brand Name</b>	Sony
<b>Type No.</b>	PM-0481-BV
<b>Company Name</b>	Sony Mobile Communications AB
<b>Company Address</b>	Nya Vattentornet 22188 Lund/SWEDEN
<b>Standards</b>	OET 65 supplement C, IEEE /ANSI C95.1 , C95.3, IEEE 1528, RSS-102
<b>FCC ID</b>	PY7PM-0481
<b>IC ID</b>	4170B-PM0481
<b>Date of Receipt</b>	Apr. 10, 2013
<b>Date of Test(s)</b>	May 04, 2013 ~ Jul. 22, 2013
<b>Date of Issue</b>	Aug. 07, 2013

In the configuration tested, the EUT complied with the standards specified above.

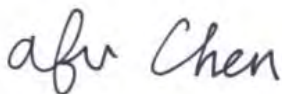
## Remarks:

This report details the results of the testing carried out on two samples, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronic & Communication Laboratory or testing done by SGS Taiwan Electronic & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronic & Communication Laboratory in writing.

## Signed on behalf of SGS

Engineer



AFu Chen

Date: Aug. 07, 2013

Asst. Manager



Kelly Tsai

Date: Aug. 07, 2013

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## Version

Report Number	Revision	Description	Issue Date
EN/2013/70006	Rev. 01	Initial Version	26 Jul. 2013
EN/2013/70006	Rev. 02	Add explanation in point 6 <sup>th</sup> of section 1.5 on page 43.	07 Aug. 2013

**This test report contains a reference to the previous version test report that it replaces.**

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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## 1. General Information

### 1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
No.134, Wu Kung Road, New Taipei Industrial Park	
Wuku District, New Taipei City, Taiwan	
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	<a href="http://www.tw.sgs.com/">http://www.tw.sgs.com/</a>
Testing Location	1F, No.8, Alley 15, Lane 120, Sec .1, NeiHu Road NeiHu District Taipei City 114, Taiwan

### 1.2 Details of Applicant

Company Name	Sony Mobile Communications AB
Company Address	Nya Vattentornet 22188 Lund/SWEDEN

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### 1.3 Description of EUT

EUT Name	PDA Phone	
Model No.	C2004	
Brand Name	Sony	
Type No.	PM-0481-BV	
HW Version	A	
SW Version	15.2.A.0.17	
Serial No.	WWAN: YT91091L7Z WLAN: YT91091LQF	
IMEI Code	WWAN: (SIM1) 004402146722552, (SIM2) 004402146722560 WLAN: (SIM1) 004402146722735, (SIM2) 004402146722743	
FCC ID	PY7PM-0481	
IC ID	4170B-PM0481	
Mode of Operation	<input checked="" type="checkbox"/> GSM <input checked="" type="checkbox"/> GPRS <input checked="" type="checkbox"/> EDGE <input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> WLAN802.11 a/b/g/n (20M/40M) <input checked="" type="checkbox"/> Bluetooth	
Duty Cycle	GSM	1/8.3
	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
	EDGE (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
	WCDMA	1
	WLAN 802.11 a/b/g/n(20M/40M)	1
	Bluetooth	1

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TX Frequency Range (MHz)	GSM850	824.2	—	848.8
	GSM1900	1850.2	—	1909.8
	WCDMA Band II	1852.4	—	1907.6
	WCDMA Band IV	1712.4	—	1752.6
	WCDMA Band V	826.4	—	846.6
	WLAN 802.11 b/g/n(20M)	2412	—	2462
	WLAN802.11 a 5.2G	5180	—	5240
	WLAN802.11 a 5.3G	5260	—	5320
	WLAN802.11 a 5.5G	5500	—	5700
	WLAN802.11 a 5.8G	5745	—	5825
	WLAN802.11 n (20M) 5.2G	5180	—	5240
	WLAN802.11 n (20M) 5.3G	5260	—	5320
	WLAN802.11 n (20M) 5.5G	5500	—	5700
	WLAN802.11 n (20M) 5.8G	5745	—	5825
	WLAN802.11 n (40M) 5.2G	5190	—	5230
	WLAN802.11 n (40M) 5.3G	5270	—	5310
	WLAN802.11 n (40M) 5.5G	5510	—	5670
	WLAN802.11 n (40M) 5.8G	5755	—	5795
Bluetooth	2402	—	2480	
Channel Number (ARFCN)	GSM850	128	—	251
	GSM1900	512	—	810
	WCDMA Band II	9262	—	9538
	WCDMA Band IV	1312	—	1513
	WCDMA Band V	4132	—	4233
	WLAN 802.11 b/g/n(20M)	1	—	11
	WLAN802.11 a 5.2G	36	—	48
	WLAN802.11 a 5.3G	52	—	64
	WLAN802.11 a 5.5G	100	—	140
	WLAN802.11 a 5.8G	149	—	165

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Channel Number (ARFCN)	WLAN802.11 n (20M) 5.2G	36	—	48
	WLAN802.11 n (20M) 5.3G	52	—	64
	WLAN802.11 n (20M) 5.5G	100	—	140
	WLAN802.11 n (20M) 5.8G	149	—	165
	WLAN802.11 n (40M) 5.2G	38	—	46
	WLAN802.11 n (40M) 5.3G	54	—	62
	WLAN802.11 n (40M) 5.5G	102	—	134
	WLAN802.11 n (40M) 5.8G	151	—	159
	Bluetooth	0	—	78

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## Spot Check (Type No.: PM-0481-BV)

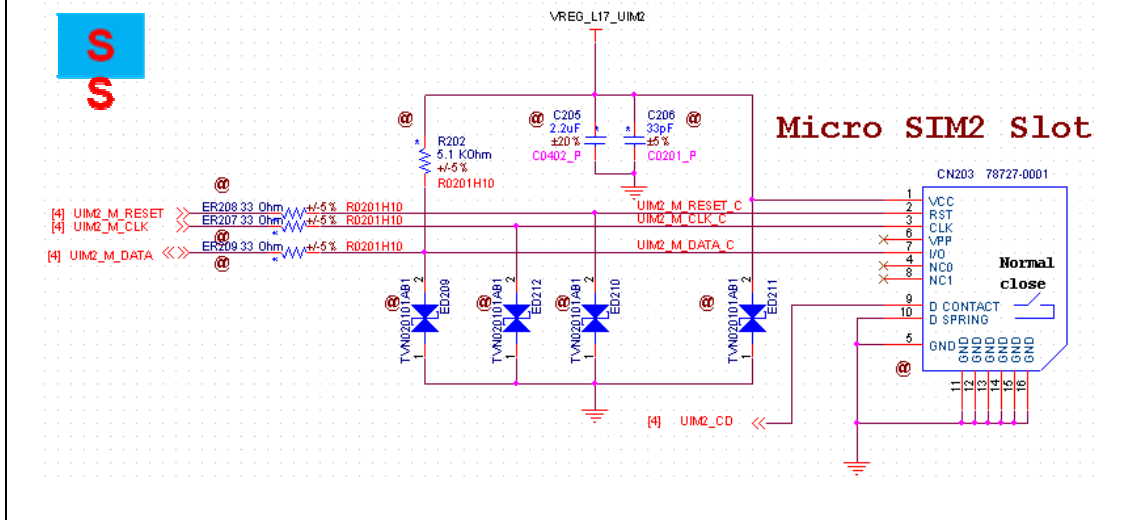
PM-0480-BV (Report No.: EN/2013/40003) – Single SIM slot (SS)

PM-0481-BV (Report No.: EN/2013/70006) – Dual SIM slot (DS)

**Difference:** The difference between PM-0480-BV and PM-0481-BV is only in SIM slot design.

Function	Difference between SS vs DS
Baseband	Yes
Audio	No
Video	No
Camera	No
EMC/ESD	No
RF	No
Antenna	No
Mechanical	Yes

1. Baseband & Mechanical : Only SIM slot different between SS & DS, SS doesn't insert switch key and DS have insert

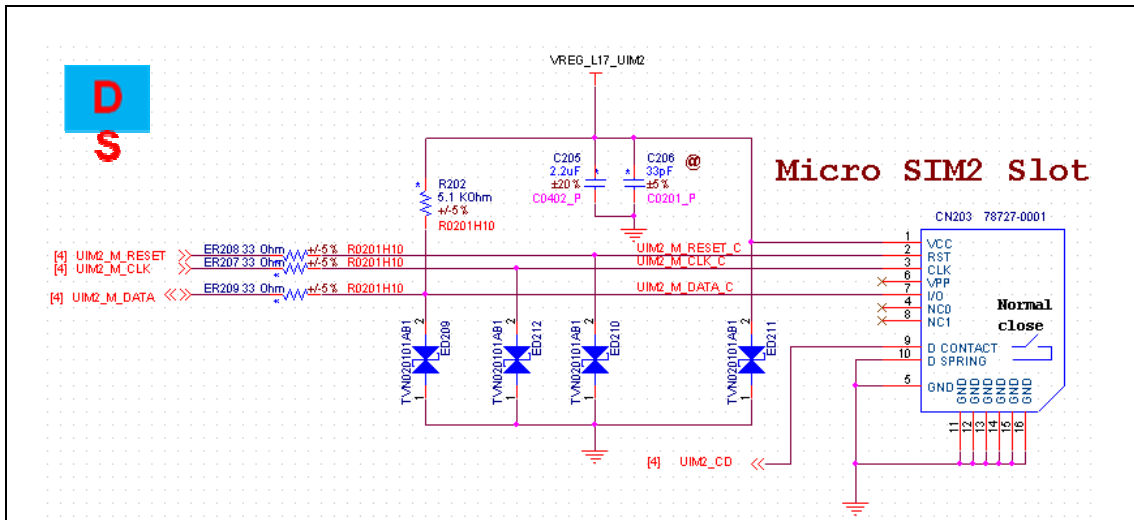


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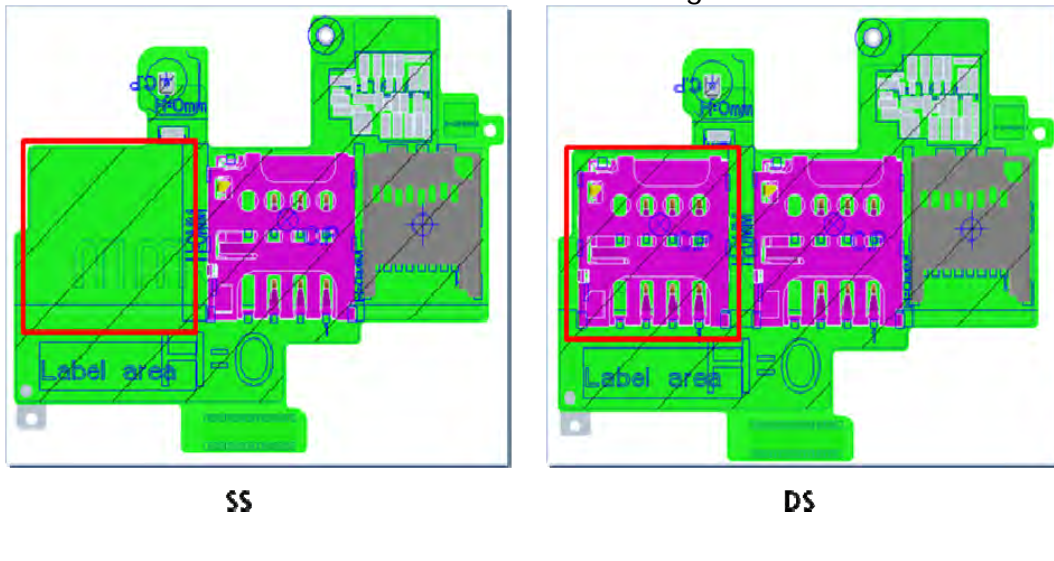
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SIM Board difference:

The difference locations are shown in below region.



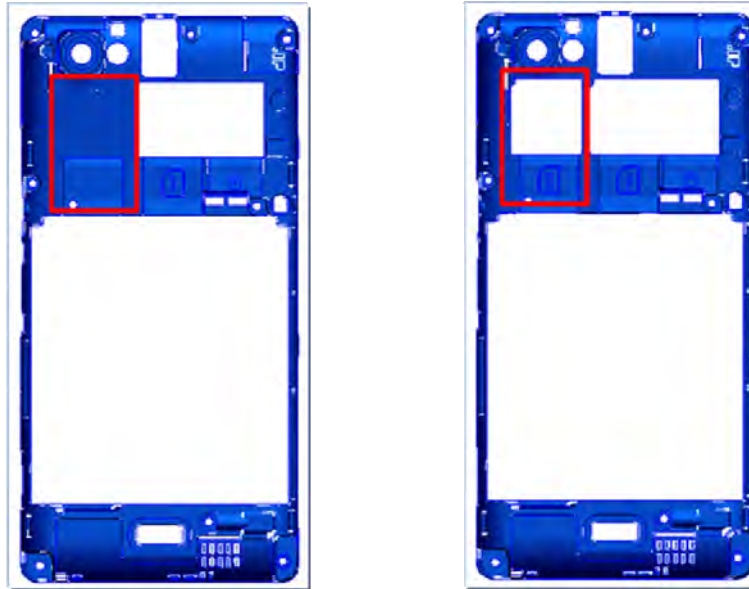
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Frame cover difference:

The difference locations are shown in below red region.



SS

DS

2. The RF matching, SCH and layout are the same between SS & DS included BT/WLAN/GPS/WWAN
3. The Antenna matching, SCH, Layout and pattern are the same between SS & DS included BT/WLAN/GPS/WWAN
4. Other portion's SCH and Layout are the same between SS & DS included Audio, Video, Camera and EMC/ESD.

**Mesurement:** PM-0480-BV was performed for all test items, PM-0481-BV is only performed spot check on highest SAR position for each bands, check whether SAR values are within 20% deviation from original one. When the spot check value is over 20% deviation, we performed for all test items on this band.

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**Type No.: PM-0480-BV**

Max. SAR (1 g) (Unit: W/Kg)					
Mode	Band	Position	Channel	Measured	Reported
Head	GSM 850	RE Cheek	251	0.41	0.43
	GSM 1900	RE Cheek	810	0.48	0.49
	WCDMA Band II	RE Cheek	9538	1.05	1.15
	WCDMA Band IV	RE Cheek	1412	0.95	0.99
	WCDMA Band V	LE Cheek	4233	0.52	0.53
	WLAN802.11 b	RE Cheek	1	0.64	0.65
	WLAN802.11 n (20M) 5.2G	RE Tilt	48	0.38	0.39
	WLAN802.11a 5.3G	RE Tilt	60	0.56	0.58
	WLAN802.11n (20M) 5.5G	RE Tilt	100	0.61	0.63
	WLAN802.11n (40M) 5.8G	LE Tilt	151	0.37	0.37
Body worn (speech mode)	GSM 850	Back side - with headset (MH410C)	190	0.44	0.46
	GSM 1900	Back side - with headset (MH410C)	661	0.34	0.36
	WCDMA Band II	Front side - with headset (MH410C)	9400	0.58	0.58
	WCDMA Band IV	Front side - with headset (MH410C)	1412	0.52	0.55
	WCDMA Band V	Back side - with headset (MH410C)	4183	0.29	0.30

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Max. SAR (1 g) (Unit: W/Kg)					
Mode	Band	Position	Channel	Measured	Reported
Hotspot mode	GPRS 850 1Dn4UP	Back side	251	0.87	0.89
	GPRS 1900 1Dn4UP	Front side - with headset (MH410C)	810	1.22	1.34
	WCDMA Band II	Bottom side	9538	1.07	1.18
	WCDMA Band IV	Front side	1412	1.01	1.06
	WCDMA Band V	Back side	4233	0.91	0.93
	WLAN802.11b	Back side	11	0.18	0.18
	WLAN802.11n(20M) 5.2G	Top side	48	0.15	0.15
	WLAN802.11a 5.3G	Top side	60	0.21	0.22
	WLAN802.11a 5.5G	Back side	116	0.31	0.31
	WLAN802.11n (20M) 5.8G	Back side	149	0.11	0.11

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Max. reported SAR WWAN and WLAN DTS 2.4 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.431	0.650	1.08	-	-
GPRS 850 (1Dn4UP)	Hotspot	Back	0.893	0.181	1.07	-	-
GSM 1900	Head	Right cheek	0.493	0.650	1.14	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.338	0.128	1.47	-	-
WCDMA Band II	Head	Right cheek	1.154	0.650	<b>1.80</b>	84.4	0.029
WCDMA Band II	Hotspot	Back	1.121	0.181	1.30	-	-
WCDMA Band IV	Head	Right cheek	0.993	0.650	<b>1.64</b>	82.3	0.026
WCDMA Band IV	Hotspot	Front	1.058	0.128	1.19	-	-
WCDMA Band V	Head	Right cheek	0.349	0.650	1.00	-	-
WCDMA Band V	Hotspot	Back	0.931	0.181	1.11	-	-

Note:  
 We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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Max. reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Left tilt	0.345	0.372	0.72	-	-
GPRS 850 (1Dn4UP)	Hotspot	Back	0.893	0.112	1.01	-	-
GSM 1900	Head	Right cheek	0.493	0.28	0.77	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.338	0.05	1.39	-	-
WCDMA Band II	Head	Right cheek	1.154	0.28	1.43	-	-
WCDMA Band II	Hotspot	Back	1.121	0.112	1.23	-	-
WCDMA Band IV	Head	Right cheek	0.993	0.28	1.27	-	-
WCDMA Band IV	Hotspot	Front	1.058	0.05	1.11	-	-
WCDMA Band V	Head	Left cheek	0.531	0.288	0.82	-	-
WCDMA Band V	Hotspot	Back	0.931	0.112	1.04	-	-

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Max. reported SAR WWAN and WLAN UNII 5 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR <1.6W/kg	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN			
GSM 850	Head	Right cheek	0.431	0.593	1.02	-	-
GPRS 850 (1Dn4UP)	Hotspot	Back	0.893	0.313	1.21	-	-
GSM 1900	Head	Right cheek	0.493	0.593	1.09	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Back	1.206	0.313	1.52	-	-
WCDMA Band II	Head	Right cheek	1.154	0.593	<b>1.75</b>	92.1	0.025
WCDMA Band II	Hotspot	Back	1.121	0.313	1.43	-	-
WCDMA Band IV	Head	Right cheek	0.993	0.593	1.59	-	-
WCDMA Band IV	Hotspot	Back	0.954	0.313	1.27	-	-
WCDMA Band V	Head	Left cheek	0.531	0.585	1.12	-	-
WCDMA Band V	Hotspot	Back	0.931	0.313	1.24	-	-

Note:  
We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is less than 0.04. According to KDB447498 D01v05 simultaneous transmission SAR evaluation is not required.

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Max. reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	Bluetooth	<1.6W/kg		
GPRS 850 (1Dn4UP)	Hotspot	Back	0.893	0.184	1.08	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.338	0.184	1.52	-	-
WCDMA Band II	Hotspot	Back	1.121	0.184	1.30	-	-
WCDMA Band IV	Hotspot	Front	1.058	0.184	1.24	-	-
WCDMA Band V	Hotspot	Back	0.931	0.184	1.12	-	-

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**Type No.: PM-0481-BV**

Max. SAR (1 g) (Unit: W/Kg)					
Mode	Band	Position	Channel	Measured	Reported
Head	GSM 850	RE Cheek	251	0.37	0.38
	GSM 1900	RE Cheek	810	0.44	0.44
	WCDMA Band II	RE Cheek	9538	0.97	1.04
	WCDMA Band IV	RE Cheek	1412	0.79	0.82
	WCDMA Band V	LE Cheek	4233	0.44	0.44
	WLAN802.11b	RE Cheek	1	0.50	0.53
	WLAN802.11n(20M) 5.2G	RE Tilt	48	0.36	0.37
	WLAN802.11a 5.3G	RE Tilt	60	0.53	0.56
	WLAN802.11n(20M) 5.5G	RE Tilt	100	0.54	0.55
	WLAN802.11n(40M) 5.8G	LE Tilt	151	0.29	0.30

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Max. SAR (1 g) (Unit: W/Kg)					
Mode	Band	Position	Channel	Measured	Reported
Hotspot mode	GPRS 850 1Dn4UP	Back side	251	0.82	0.84
	GPRS 1900 1Dn4UP	Front side - with headset (MH410C)	810	1.25	1.25
	WCDMA Band II	Bottom side	9538	1.03	1.11
	WCDMA Band IV	Front side	1412	0.98	1.01
	WCDMA Band V	Back side	4233	0.86	0.86
	WLAN802.11b	Back side	11	0.14	0.15
	WLAN802.11n(20M) 5.2G	Top side	48	0.12	0.13
	WLAN802.11n(20M) 5.3G	Top side	64	0.18	0.18
	WLAN802.11n(20M) 5.5G	Back side	100	0.33	0.33
	WLAN802.11n(40M) 5.8G	Back side	151	0.13	0.13

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Max. reported SAR WWAN and WLAN DTS 2.4 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.379	0.527	0.91	-	-
GPRS 850 (1Dn4UP)	Hotspot	Back	0.836	0.15	0.99	-	-
GSM 1900	Head	Right cheek	0.437	0.527	0.96	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.25	-	-	-	-
WCDMA Band II	Head	Right cheek	1.037	0.527	1.56	-	-
	Hotspot	Bottom	1.106	-	-	-	-
WCDMA Band IV	Head	Right cheek	0.816	0.527	1.34	-	-
	Hotspot	Front	1.005	-	-	-	-
WCDMA Band V	Head	Right cheek	-	0.527	-	-	-
	Hotspot	Back	0.863	0.15	1.01	-	-

Max. reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.379	0.216	0.60	-	-
GPRS 850 (1Dn4UP)	Hotspot	Back	0.836	0.13	0.97	-	-
GSM 1900	Head	Right cheek	0.437	0.216	0.65	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.25	0.035	1.29	-	-
WCDMA Band II	Head	Right cheek	1.037	0.216	1.25	-	-
	Hotspot	Bottom	1.106	-	-	-	-
WCDMA Band IV	Head	Right cheek	0.816	0.216	1.03	-	-
	Hotspot	Front	1.005	0.035	1.04	-	-
WCDMA Band V	Head	Left cheek	0.44	0.229	0.67	-	-
	Hotspot	Back	0.863	0.13	0.99	-	-

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Max. reported SAR WWAN and WLAN UNII 5 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.379	0.226	0.61	-	-
GPRS 850 (1Dn4UP)	Hotspot	Back	0.836	0.333	1.17	-	-
GSM 1900	Head	Right cheek	0.437	0.226	0.66	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.25	0.019	1.27	-	-
WCDMA Band II	Head	Right cheek	1.037	0.226	1.26	-	-
	Hotspot	Bottom	1.106	-	-	-	-
WCDMA Band IV	Head	Right cheek	0.816	0.226	1.04	-	-
	Hotspot	Front	1.005	0.019	1.02	-	-
WCDMA Band V	Head	Left cheek	0.44	0.533	0.97	-	-
	Hotspot	Back	0.863	0.333	1.20	-	-

Max. reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	Bluetooth	<1.6W/kg		
GPRS 850 (1Dn4UP)	Hotspot	Back	0.836	0.214	1.05	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.25	0.214	1.46	-	-
WCDMA Band II	Hotspot	Bottom	1.106	-	-	-	-
WCDMA Band IV	Hotspot	Front	1.005	0.214	1.22	-	-
WCDMA Band V	Hotspot	Back	0.863	0.214	1.08	-	-

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**#. GSM/GPRS/EDGE conducted power table:**
**Type No.: PM-0480-BV**

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power	
				Avg.(dBm)	Source-based time average power Avg.(dBm)
GSM 850 (GMSK)	824.2	128	33.5	33.30	24.27
	836.6	190	33.5	33.30	24.27
	848.8	251	33.5	33.30	24.27
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	30	28.5	28
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850 (GMSK)	824.2	128	33.30	29.80	28.20	28.00
	836.6	190	33.40	29.60	28.30	27.90
	848.8	251	33.30	29.70	28.30	27.90
Source-based time average power						
GPRS 850 (GMSK)	824.2	128	24.27	23.78	23.94	24.99
	836.6	190	24.37	23.58	24.04	24.89
	848.8	251	24.27	23.68	24.04	24.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	27	26.5	26.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 5)	824.2	128	26.80	26.60	26.50	26.30
	836.6	190	26.80	26.60	26.40	26.30
	848.8	251	26.80	26.60	26.40	26.40
Source-based time average power						
EDGE 850 (MCS 5)	824.2	128	17.77	20.58	22.24	23.29
	836.6	190	17.77	20.58	22.14	23.29
	848.8	251	17.77	20.58	22.14	23.39
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	30	28.5	28
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 4)	824.2	128	33.40	29.60	27.90	27.60
	836.6	190	33.50	29.40	27.70	27.50
	848.8	251	33.50	29.50	27.80	27.50
Source-based time average power						
EDGE 850 (MCS 4)	824.2	128	24.37	23.58	23.64	24.59
	836.6	190	24.47	23.38	23.44	24.49
	848.8	251	24.47	23.48	23.54	24.49
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	27	26.5	26.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 9)	824.2	128	26.70	26.60	26.50	26.40
	836.6	190	26.70	26.60	26.40	26.40
	848.8	251	26.70	26.60	26.40	26.30
Source-based time average power						
EDGE 850 (MCS 9)	824.2	128	17.67	20.58	22.24	23.39
	836.6	190	17.67	20.58	22.14	23.39
	848.8	251	17.67	20.58	22.14	23.29
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power	Source-based time average power
				Avg.(dBm)	Avg.(dBm)
GSM 1900 (GMSK)	1850.2	512	30.5	30.40	21.37
	1880	661	30.5	30.30	21.27
	1909.8	810	30.5	30.40	21.37
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	30	28.5	28
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	30.50	29.80	28.50	28.00
	1880	661	30.30	29.80	28.30	27.80
	1909.8	810	30.50	29.60	28.40	27.60
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	21.47	23.78	24.24	24.99
	1880	661	21.27	23.78	24.04	24.79
	1909.8	810	21.47	23.58	24.14	24.59
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			26	25.5	25.5	25
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 5)	1850.2	512	25.80	25.50	25.20	25.00
	1880	661	25.60	25.30	25.00	24.80
	1909.8	810	25.40	25.10	25.10	24.70
Source-based time average power						
EDGE 1900 (MCS 5)	1850.2	512	16.77	19.48	20.94	21.99
	1880	661	16.57	19.28	20.74	21.79
	1909.8	810	16.37	19.08	20.84	21.69
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	30	28.5	28
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 4)	1850.2	512	30.30	29.40	28.40	27.70
	1880	661	30.20	29.20	28.20	27.50
	1909.8	810	30.30	29.30	28.10	27.50
Source-based time average power						
EDGE 1900 (MCS 4)	1850.2	512	21.27	23.38	24.14	24.69
	1880	661	21.17	23.18	23.94	24.49
	1909.8	810	21.27	23.28	23.84	24.49
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			26	25.5	25.5	25
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 9)	1850.2	512	25.50	25.50	25.30	25.00
	1880	661	25.40	25.20	25.00	24.80
	1909.8	810	25.20	25.00	24.80	24.60
Source-based time average power						
EDGE 1900 (MCS 9)	1850.2	512	16.47	19.48	21.04	21.99
	1880	661	16.37	19.18	20.74	21.79
	1909.8	810	16.17	18.98	20.54	21.59
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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**Type No.: PM-0481-BV**

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power	
				Avg. (dBm)	Source-based time average power Avg. (dBm)
GSM 850 (GMSK)	824.2	128	33.5	33.20	24.17
	836.6	190	33.5	33.40	24.37
	848.8	251	33.5	33.40	24.37
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	30	28.5	28
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850 (GMSK)	824.2	128	33.30	29.90	28.50	27.90
	836.6	190	33.50	29.80	28.40	27.80
	848.8	251	33.50	29.90	28.50	27.90
Source-based time average power						
GPRS 850 (GMSK)	824.2	128	24.27	23.88	24.24	24.89
	836.6	190	24.47	23.78	24.14	24.79
	848.8	251	24.47	23.88	24.24	24.89
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	27	26.5	26.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 5)	824.2	128	26.90	26.60	26.40	26.10
	836.6	190	26.90	26.60	26.30	26.10
	848.8	251	26.90	26.70	26.30	26.20
Source-based time average power						
EDGE 850 (MCS 5)	824.2	128	17.87	20.58	22.14	23.09
	836.6	190	17.87	20.58	22.04	23.09
	848.8	251	17.87	20.68	22.04	23.19
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	30	28.5	28.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 4)	824.2	128	33.20	29.40	28.30	27.80
	836.6	190	33.20	29.40	28.40	27.80
	848.8	251	33.50	29.40	28.30	27.80
Source-based time average power						
EDGE 850 (MCS 4)	824.2	128	24.17	23.38	24.04	24.79
	836.6	190	24.17	23.38	24.14	24.79
	848.8	251	24.47	23.38	24.04	24.79
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	27	26.5	26.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (MCS 9)	824.2	128	26.60	26.50	26.10	26.00
	836.6	190	26.60	26.50	26.10	26.00
	848.8	251	26.60	26.50	26.20	26.00
Source-based time average power						
EDGE 850 (MCS 9)	824.2	128	17.57	20.48	21.84	22.99
	836.6	190	17.57	20.48	21.84	22.99
	848.8	251	17.57	20.48	21.94	22.99
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power	Source-based time average power
				Avg.(dBm)	Avg.(dBm)
GSM 1900 (GMSK)	1850.2	512	30.5	30.20	21.17
	1880	661	30.5	30.10	21.07
	1909.8	810	30.5	30.50	21.47
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	30	28.5	28
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	30.40	29.70	28.20	27.80
	1880	661	30.40	29.80	28.30	28.00
	1909.8	810	30.50	29.80	28.50	28.00
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	21.37	23.68	23.94	24.79
	1880	661	21.37	23.78	24.04	24.99
	1909.8	810	21.47	23.78	24.24	24.99
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			26	25.5	25.5	25
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 5)	1850.2	512	25.60	25.40	25.10	25.00
	1880	661	25.70	25.30	25.00	25.00
	1909.8	810	25.80	25.50	25.20	25.00
Source-based time average power						
EDGE 1900 (MCS 5)	1850.2	512	16.57	19.38	20.84	21.99
	1880	661	16.67	19.28	20.74	21.99
	1909.8	810	16.77	19.48	20.94	21.99
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	30	28.5	28
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 4)	1850.2	512	30.10	29.40	28.00	27.60
	1880	661	30.00	29.50	28.00	27.60
	1909.8	810	30.10	29.50	28.00	27.70
Source-based time average power						
EDGE 1900 (MCS 4)	1850.2	512	21.07	23.38	23.74	24.59
	1880	661	20.97	23.48	23.74	24.59
	1909.8	810	21.07	23.48	23.74	24.69
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			26	25.5	25.5	25
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (MCS 9)	1850.2	512	26.00	25.00	25.30	24.60
	1880	661	25.90	25.00	25.30	24.50
	1909.8	810	25.80	25.10	25.40	24.60
Source-based time average power						
EDGE 1900 (MCS 9)	1850.2	512	16.97	18.98	21.04	21.59
	1880	661	16.87	18.98	21.04	21.49
	1909.8	810	16.77	19.08	21.14	21.59
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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### #. WCDMA Band II / Band IV / Band V / HSDPA / HSUPA conducted power table:

#### Type No.: PM-0480-BV

Band	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Rel99 AV(dBm)	HSDPA mode AV(dBm)				HSUPA mode AV(dBm)				
				SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5
WCDMA Band II Rel 6	9262	24.5	24.40	24.50	24.28	24.02	24.09	24.32	22.37	23.38	22.5	24.21
	9400	24.5	24.50	24.39	24.36	23.94	23.95	24.48	22.55	23.5	22.6	24.34
	9538	24.5	24.09	23.95	23.94	23.42	23.54	24.03	22.07	23.11	22.11	23.94
WCDMA Band IV Rel 6	1312	24.5	24.29	24.00	24.17	23.52	23.59	24.21	22.26	23.27	22.39	24.1
	1412	24.5	24.30	24.40	24.16	23.95	23.96	24.28	22.35	23.3	22.4	24.14
	1513	24.5	24.48	24.32	24.33	23.79	23.91	24.42	22.46	23.5	22.5	24.33
WCDMA Band V Rel 6	4132	24.5	24.47	24.26	24.40	23.8	23.85	24.43	22.49	23.47	22.54	24.29
	4183	24.5	24.44	24.30	24.33	23.82	23.86	24.37	22.45	23.43	22.51	24.2
	4233	24.5	24.40	24.48	24.27	23.99	24.05	24.32	22.36	23.4	22.44	24.21

#### Type No.: PM-0481-BV

Band	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Rel99 AV(dBm)	HSDPA mode AV(dBm)				HSUPA mode AV(dBm)				
				SUB-1	SUB-2	SUB-3	SUB-4	SUB-1	SUB-2	SUB-3	SUB-4	SUB-5
WCDMA Band II Rel 6	9262	24.5	24.24	24.41	24.12	23.93	24	24.16	22.21	23.22	22.34	24.05
	9400	24.5	24.49	24.38	24.35	23.93	23.94	24.47	22.54	23.49	22.59	24.33
	9538	24.5	24.19	24.05	24.04	23.52	23.64	24.13	22.17	23.21	22.21	24.04
WCDMA Band IV Rel 6	1312	24.5	24.43	24.14	24.31	23.66	23.73	24.35	22.4	23.41	22.53	24.24
	1412	24.5	24.38	24.48	24.24	24.03	24.04	24.36	22.43	23.38	22.48	24.22
	1513	24.5	24.33	24.17	24.18	23.64	23.76	24.27	22.31	23.35	22.35	24.18
WCDMA Band V Rel 6	4132	24.5	24.48	24.27	24.41	23.81	23.86	24.44	22.5	23.48	22.55	24.3
	4183	24.5	24.47	24.33	24.36	23.85	23.89	24.40	22.48	23.46	22.54	24.23
	4233	24.5	24.48	24.50	24.35	24.01	24.07	24.40	22.44	23.48	22.52	24.29

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## HSDPA

SUB-TEST	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

## HSUPA

SUB-TEST	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1)	$\beta_{ec}$	$\beta_{ed}$ (Note 5) (Note 6)	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15	15/15	64	11/15	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}$ : 47/15 $\beta_{ed2}$ : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	15/15	64	15/15	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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### #. WLAN802.11 a/b/g/n (20M/40M) conducted power table:

#### Type No.: PM-0480-BV

802.11b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)			
CH	Frequency (MHz)		Data Rate (Mbps)			
			1	2	5.5	11
1	2412	15.0	14.96	14.93	14.90	14.87
6	2437	15.0	14.99	14.95	14.91	14.88
11	2462	15.0	14.95	14.91	14.88	14.85

802.11g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)							
CH	Frequency (MHz)		Data Rate (Mbps)							
			6	9	12	18	24	36	48	54
1	2412	12.5	12.12	12.06	12.00	11.98	11.94	11.90	11.87	11.85
6	2437	12.5	12.45	12.39	12.33	12.30	12.24	12.20	12.16	12.13
11	2462	12.5	12.40	12.34	12.28	12.21	12.15	12.11	12.07	12.04

802.11n (20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)							
CH	Frequency (MHz)		Data Rate (Mbps)							
			6.5	13	19.5	26	39	52	58.5	65
1	2412	12.5	12.30	12.27	12.25	12.23	12.21	12.19	12.17	12.15
6	2437	12.5	12.33	12.30	12.28	12.26	12.23	12.21	12.19	12.17
11	2462	12.5	12.35	12.32	12.29	12.27	12.25	12.22	12.20	12.18

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802.11a		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)							
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)							
CH	Frequency (MHz)		6	9	12	18	24	36	48	54
36	5180	13.0	12.95	12.93	12.92	12.90	12.88	12.86	12.84	12.81
40	5200	13.0	12.88	12.86	12.85	12.83	12.80	12.78	12.76	12.74
44	5220	13.0	12.86	12.84	12.82	12.79	12.76	12.74	12.72	12.71
48	5240	13.0	12.84	12.82	12.80	12.79	12.77	12.74	12.72	12.69
52	5260	13.0	12.85	12.83	12.81	12.79	12.76	12.74	12.71	12.69
56	5280	13.0	12.88	12.83	12.80	12.78	12.76	12.73	12.72	12.70
60	5300	13.0	12.85	12.82	12.80	12.79	12.77	12.74	12.72	12.69
64	5320	13.0	12.82	12.80	12.77	12.76	12.74	12.73	12.71	12.68
100	5500	13.0	12.89	12.87	12.84	12.83	12.80	12.79	12.77	12.74
104	5520	13.0	12.84	12.82	12.81	12.80	12.77	12.75	12.73	12.71
108	5540	13.0	12.85	12.83	12.81	12.79	12.76	12.73	12.72	12.70
112	5560	13.0	12.95	12.93	12.90	12.89	12.86	12.84	12.81	12.79
116	5580	13.0	12.97	12.95	12.94	12.91	12.88	12.86	12.83	12.80
120	5600	13.0	12.93	12.91	12.89	12.86	12.84	12.82	12.81	12.78
124	5620	13.0	12.94	12.91	12.89	12.86	12.83	12.81	12.80	12.77
128	5640	13.0	12.92	12.90	12.87	12.84	12.83	12.80	12.79	12.77
132	5660	13.0	12.95	12.93	12.90	12.89	12.86	12.84	12.81	12.79
136	5680	13.0	12.95	12.92	12.89	12.86	12.84	12.82	12.81	12.78
140	5700	13.0	12.96	12.93	12.90	12.89	12.86	12.84	12.81	12.79
149	5745	13.0	12.96	12.94	12.91	12.88	12.86	12.83	12.80	12.78
153	5765	13.0	12.82	12.80	12.77	12.76	12.74	12.73	12.71	12.68
157	5785	13.0	12.85	12.83	12.81	12.79	12.76	12.74	12.71	12.69
161	5805	13.0	12.87	12.85	12.83	12.80	12.78	12.76	12.74	12.71
165	5825	13.0	12.84	12.82	12.79	12.76	12.74	12.72	12.71	12.68

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802.11n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)							
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)							
CH	Frequency (MHz)		6.5	13	19.5	26	39	52	58.5	65
36	5180	13.0	12.96	12.94	12.92	12.91	12.89	12.88	12.85	12.84
44	5220	13.0	12.97	12.95	12.93	12.92	12.90	12.88	12.86	12.85
48	5240	13.0	12.95	12.93	12.92	12.90	12.88	12.86	12.85	12.84
52	5260	13.0	12.94	12.92	12.91	12.89	12.88	12.85	12.84	12.83
60	5300	13.0	12.94	12.92	12.91	12.89	12.88	12.85	12.84	12.83
64	5320	13.0	12.90	12.88	12.86	12.85	12.84	12.83	12.81	12.80
100	5500	13.0	12.91	12.89	12.88	12.85	12.84	12.83	12.81	12.80
116	5580	13.0	12.97	12.95	12.93	12.92	12.90	12.88	12.86	12.84
140	5700	13.0	12.96	12.94	12.92	12.90	12.89	12.88	12.86	12.84
149	5745	13.0	12.97	12.95	12.93	12.92	12.91	12.88	12.86	12.85
157	5785	13.0	12.96	12.94	12.92	12.91	12.89	12.88	12.85	12.84
165	5825	13.0	12.93	12.92	12.91	12.89	12.88	12.85	12.84	12.83

802.11n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)							
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)							
CH	Frequency (MHz)		13.5	27	40.5	54	81	108	121.5	135
38	5190	12.0	11.88	11.86	11.85	11.83	11.81	11.79	11.77	11.75
46	5230	12.0	11.85	11.84	11.82	11.80	11.77	11.74	11.72	11.70
54	5270	12.0	11.94	11.92	11.90	11.88	11.85	11.83	11.80	11.79
62	5310	12.0	11.91	11.88	11.86	11.85	11.83	11.81	11.79	11.77
102	5510	12.0	11.79	11.77	11.74	11.72	11.70	11.68	11.67	11.65
118	5590	12.0	11.97	11.94	11.92	11.90	11.88	11.85	11.84	11.82
134	5670	12.0	11.92	11.89	11.86	11.85	11.83	11.81	11.79	11.77
151	5755	12.0	11.95	11.92	11.90	11.88	11.85	11.83	11.80	11.79
159	5795	12.0	11.96	11.94	11.92	11.90	11.88	11.85	11.84	11.82

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**Type No.: PM-0481-BV**

802.11b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)			
CH	Frequency (MHz)		Data Rate (Mbps)			
			1	2	5.5	11
1	2412	15.0	14.77	14.75	14.73	14.72
6	2437	15.0	14.96	14.94	14.90	14.87
11	2462	15.0	14.80	14.78	14.75	14.74

802.11g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)							
CH	Frequency (MHz)		Data Rate (Mbps)							
			6	9	12	18	24	36	48	54
1	2412	12.5	12.10	12.05	11.99	11.97	11.93	11.89	11.86	11.83
6	2437	12.5	12.42	12.35	12.32	12.29	12.22	12.17	12.15	12.12
11	2462	12.5	12.35	12.32	12.26	12.19	12.14	12.10	12.06	12.02

802.11n (20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)							
CH	Frequency (MHz)		Data Rate (Mbps)							
			6.5	13	19.5	26	39	52	58.5	65
1	2412	12.5	12.25	12.26	12.23	12.20	12.19	12.16	12.15	12.10
6	2437	12.5	12.30	12.28	12.26	12.25	12.21	12.18	12.16	12.15
11	2462	12.5	12.33	12.31	12.28	12.25	12.22	12.20	12.19	12.16

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802.11a		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)							
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)							
CH	Frequency (MHz)		6	9	12	18	24	36	48	54
36	5180	13.0	12.92	12.91	12.90	12.89	12.87	12.83	12.82	12.78
40	5200	13.0	12.80	12.79	12.78	12.77	12.75	12.74	12.71	12.70
44	5220	13.0	12.82	12.81	12.79	12.77	12.75	12.72	12.69	12.66
48	5240	13.0	12.77	12.75	12.74	12.73	12.72	12.71	12.69	12.66
52	5260	13.0	12.82	12.80	12.78	12.77	12.75	12.73	12.70	12.66
56	5280	13.0	12.85	12.82	12.79	12.77	12.74	12.70	12.69	12.65
60	5300	13.0	12.81	12.78	12.77	12.75	12.72	12.70	12.67	12.65
64	5320	13.0	12.80	12.78	12.74	12.72	12.70	12.69	12.66	12.62
100	5500	13.0	12.88	12.85	12.82	12.80	12.77	12.75	12.72	12.70
104	5520	13.0	12.80	12.79	12.77	12.75	12.72	12.70	12.67	12.62
108	5540	13.0	12.84	12.82	12.79	12.77	12.74	12.70	12.66	12.65
112	5560	13.0	12.92	12.88	12.87	12.85	12.82	12.79	12.75	12.71
116	5580	13.0	12.95	12.93	12.90	12.88	12.85	12.84	12.80	12.77
132	5660	13.0	12.90	12.89	12.88	12.85	12.82	12.80	12.79	12.77
136	5680	13.0	12.92	12.90	12.88	12.85	12.82	12.80	12.76	12.75
140	5700	13.0	12.95	12.91	12.88	12.85	12.82	12.83	12.80	12.77
149	5745	13.0	12.92	12.91	12.88	12.85	12.83	12.82	12.79	12.75
153	5765	13.0	12.76	12.74	12.70	12.69	12.68	12.66	12.62	12.61
157	5785	13.0	12.80	12.79	12.77	12.74	12.72	12.70	12.69	12.65
161	5805	13.0	12.80	12.77	12.74	12.73	12.71	12.70	12.68	12.67
165	5825	13.0	12.80	12.78	12.77	12.75	12.72	12.70	12.67	12.63

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802.11n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)								
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)								
CH	Frequency (MHz)		6.5	13	19.5	26	39	52	58.5	65	
36	5180	13.0	12.92	12.89	12.87	12.85	12.84	12.82	12.77	12.75	
44	5220	13.0	12.95	12.92	12.91	12.88	12.85	12.84	12.82	12.80	
48	5240	13.0	12.92	12.88	12.87	12.85	12.82	12.80	12.77	12.75	
52	5260	13.0	12.91	12.88	12.86	12.82	12.80	12.77	12.74	12.73	
60	5300	13.0	12.92	12.90	12.88	12.85	12.84	12.80	12.78	12.77	
64	5320	13.0	12.89	12.87	12.85	12.81	12.77	12.75	12.74	12.72	
100	5500	13.0	12.89	12.86	12.84	12.83	12.82	12.80	12.78	12.74	
116	5580	13.0	12.95	12.93	12.91	12.90	12.87	12.83	12.80	12.79	
140	5700	13.0	12.94	12.92	12.90	12.88	12.84	12.83	12.81	12.80	
149	5745	13.0	12.92	12.91	12.89	12.86	12.85	12.84	12.83	12.80	
157	5785	13.0	12.90	12.88	12.85	12.83	12.82	12.81	12.79	12.77	
165	5825	13.0	12.90	12.88	12.85	12.83	12.80	12.77	12.76	12.75	

802.11n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power (dBm)								
5.2G/5.3G/5.5G/5.8G			Data Rate (Mbps)								
CH	Frequency (MHz)		13.5	27	40.5	54	81	108	121.5	135	
38	5190	12.0	11.87	11.85	11.83	11.80	11.78	11.74	11.72	11.70	
46	5230	12.0	11.83	11.80	11.77	11.76	11.75	11.73	11.71	11.68	
54	5270	12.0	11.90	11.88	11.85	11.82	11.81	11.79	11.77	11.75	
62	5310	12.0	11.88	11.85	11.84	11.82	11.80	11.77	11.75	11.72	
102	5510	12.0	11.77	11.75	11.72	11.70	11.68	11.65	11.64	11.63	
134	5670	12.0	11.90	11.87	11.85	11.81	11.77	11.76	11.75	11.72	
151	5755	12.0	11.90	11.88	11.86	11.82	11.80	11.77	11.75	11.72	
159	5795	12.0	11.90	11.86	11.85	11.84	11.83	11.82	11.79	11.75	

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### #. Bluetooth conducted power table:

#### Type No.: PM-0480-BV

Frequency (MHz)	Peak (dBm)		
	BDR	4DPSK	8DPSK
2402	8.41	9.41	9.5
2441	8.38	9.39	9.48
2480	8.13	9.13	9.22

Frequency (MHz)	Peak (dBm)
	BT4.0
2402	1.26
2442	1.46
2480	0.98

#### Type No.: PM-0481-BV

Frequency (MHz)	Peak (dBm)		
	1M	2M	3M
2402	7.93	8.88	8.97
2441	8.04	9.97	10.11
2480	7.78	9.02	9.1

Frequency (MHz)	Peak (dBm)
	BT4.0
2402	1.21
2442	1.24
2480	0.79

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## 1.4 Test Environment

Ambient Temperature :  $22 \pm 2^{\circ} \text{C}$

Tissue Simulating Liquid:  $22 \pm 2^{\circ} \text{C}$

## 1.5 Operation Description

### General:

1. The EUT is controlled by using a Radio Communication Tester (R&S CMU200), and the communication between the EUT and the tester is established by air link.
2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
3. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
4. Testing head SAR at lowest, middle and highest channel for all bands with Left Tilt /Left Cheek/Right Tilt/Right Cheek conditions.
5. Testing body-worn speech mode SAR by separating the EUT and the phantom **15mm** distance when performing GSM850, GSM1900, WCDMA Band II, WCDMA Band IV and WCDMA Band V. (Both front side & back side)
6. Testing hotspot mode SAR by separating the EUT and the phantom **10mm** distance.
  - #. The SAR testing for portable devices with wireless router capability is referred as test guidance of **KDB 941225 D06v01** (SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities).
  - #. The following procedures are applicable when the overall device length and width are  $\geq 9 \text{ cm} \times 5 \text{ cm}$  respectively. A test separation of 10 mm is required. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25 mm from that surface or edge, for the data modes, wireless technologies and frequency bands supporting hotspot mode.
  - #. For WLAN (15mm separation): the testing device support mobile hotspot function, the separation distance is **10mm (No need to perform SAR testing with**

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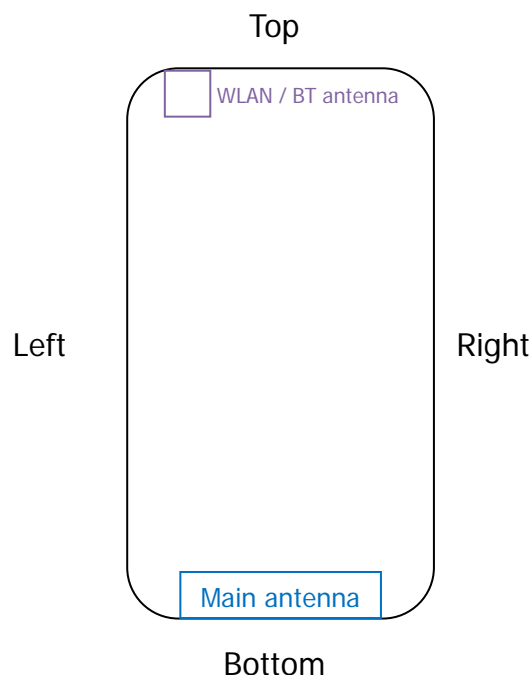
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**Body worn accessory (15mm separation distance) due to the hotspot mode(10mm separation distance) is more conservative than Body worn accessory mode.).**

- #. The hotspot mode is only supported in 2.4G and the last band of 5G (5745 MHz ~ 5825 MHz). And it is not capable of operating hotspot on 5G (5250 MHz ~ 5350 MHz and 5470 MHz ~ 5725 MHz). Additional test on non-supported mode is for self-verification only.

Test configurations:

- (1) Front side
- (2) Back side
- (3) Top side.(WWAN antenna to edge distance >25mm\_ No SAR measurement is necessary for this configuration)
- (4) Bottom side. (WLAN antenna to edge distance >25mm\_ No SAR measurement is necessary for this configuration)
- (5) Right side. (WLAN antenna to edge distance >25mm\_ No SAR measurement is necessary for this configuration)
- (6) Left side.



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7. **For FCC:** According to **KDB447498 D01v05r01** – The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, SAR evaluation is not required.

**(PM-0480-BV: Max power of Bluetooth = 9.5dBm)**

**(PM-0481-BV: Max power of Bluetooth = 10.11dBm)**

When SAR evaluation is not required to be measured, per FCC KDB447498 D01v05r01, the following equation must be used to estimate the 1g SAR for simultaneous transmission assessment involving that transmitter.

Estimated SAR =  $[\sqrt{f(\text{GHz})}/7.5] \cdot [(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})]$

**Type No.: PM-0480-BV**

Mode	Frequency (MHz)	Maximum Power (dBm)	Separation Distance (Body) (mm)	Estimated SAR (Body) (W/kg)
Bluetooth	2402	9.5	10	0.184

**Type No.: PM-0481-BV**

Mode	Frequency (MHz)	Maximum Power (dBm)	Separation Distance (Body) (mm)	Estimated SAR (Body) (W/kg)
Bluetooth	2441	10.11	10	0.214

**For IC:** SAR evaluation is required if the separation distance between the user and the radiating element of the device is less than or equal to 20 cm, except when the device operates as follows:

- from 3 kHz up to 1 GHz inclusively, and with output power (i.e. the higher of the conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 200 mW for general public use and 1000 mW for controlled use;
- above 1 GHz and up to 2.2 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 100 mW for general public use and

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- 500 mW for controlled use;
- above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use;
  - above 3 GHz and up to 6 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 10 mW for general public use and 50 mW for controlled use.
8. According to **KDB248227 D01v01r02** -SAR is not required for 802.11 g/HT20 channels when the maximum average output power is higher than that measured on the corresponding 802.11b channels but increase less than 1/4 dB.
9. Using **KDB941225 D01v02** to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

**Additional configuration (Head):**

10. For highest SAR configuration in this band repeated with external Memory card inside.

**Additional configuration (Body):**

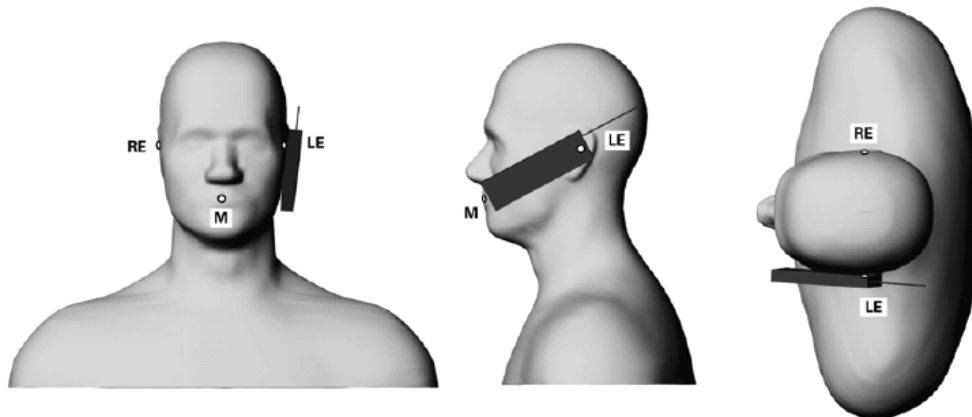
11. For highest SAR configuration in this band repeated with external Memory card inside.
12. For highest SAR configuration in this band repeated with Headset (MH410C).

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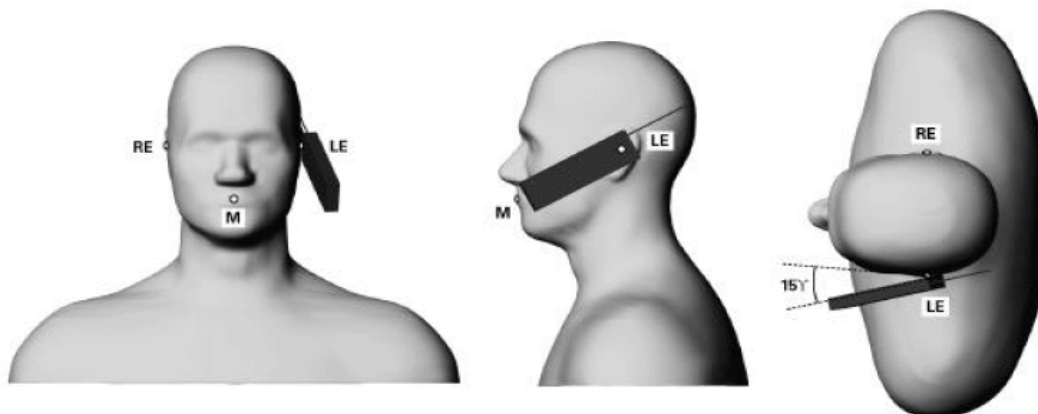
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## 1.6 Positioning Procedure



Phone position 1, "cheek" or "touch" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.



Phone position 2, "tilted position." The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for phone positioning.

### Cheek/Touch Position:

The handset was brought toward the mouth of the head phantom by pivoting against the ear reference point until any point of the mouthpiece or keypad touched the phantom.

### Ear/Tilt Position:

With the phone aligned in the Cheek/Touch position, the handset was tilted away from the mouth with respect to the test device reference point by 15 degrees.

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## 1.7 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
3. The generation of a high-resolution mesh within the measured volume.
4. The interpolation of all measured values from the measurement grid to the high-resolution grid.
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface.
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for

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most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans.

The routines are verified and optimized for the grid dimensions used in these cube measurements. The measured volume of 30x30x30mm contains about 30g of tissue. The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is then moved around until the highest averaged SAR is found.

If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

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## 1.8 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

### 1.8.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field ( $E$ ) and the temperature gradient ( $\delta T / \delta t$ ) in the liquid.

$$SAR = \frac{\sigma}{\rho} |E|^2 = c \frac{\delta T}{\delta t}$$

Whereby  $\sigma$  is the conductivity,  $\rho$  the density and  $c$  the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

- The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.

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- The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures (~ 2% for  $c$ ; much better for  $\rho$ ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed  $\pm 5\%$ .
- Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about  $\pm 10\%$  (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is  $\pm 5\%$  (RSS) when the same liquid is used for the calibration and for actual measurements and  $\pm 7-9\%$  (RSS) when not, which is in good agreement with the estimates given in [2].

### 1.8.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

- The setup must enable accurate determination of the incident power.

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- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

## References

- [1] N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
- [2] K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, "Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954-1962, Oct. 1996.
- [3] K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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## 1.9 The SAR Measurement System

A block diagram of the SAR measurement system is given in Fig. a. This SAR measurement system uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model ES3DV3 and EX3DV4 field probes are used to determine the internal electric fields. The SAR can be obtained from the equation  $SAR = \sigma (|E_i|^2) / \rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.

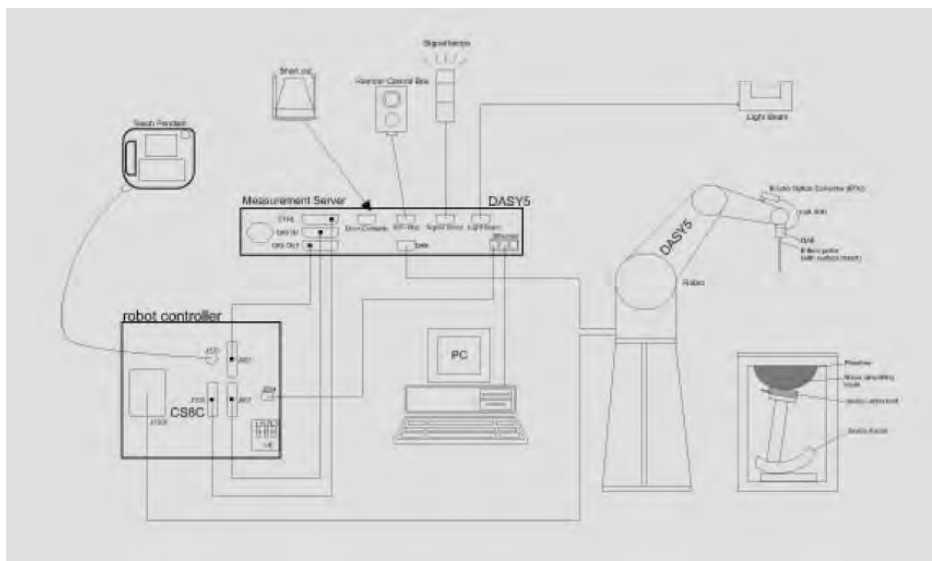


Fig. a A block diagram of the SAR measurement system

The DASY 5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- Data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

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- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating WindowsXP
- DASY 5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validate the proper functioning of the system.


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## 1.10 System Components

### ES3DV3 / EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL835/1750/1900/2450/5200/5500/5800MHZ Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 4 GHz, Linearity: $\pm 0.2$ dB (ES3DV3) 10 MHz to > 6 GHz, Linearity: $\pm 0.6$ dB (EX3DV4)	
Directivity	$\pm 0.3$ dB in HSL (rotation around probe axis) $\pm 0.5$ dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 $\mu$ W/g to > 100 mW/g Linearity: $\pm 0.2$ dB (noise: typically < 1 $\mu$ W/g)	
Dimensions	Tip diameter: 4 mm (ES3DV3) Tip diameter: 2.5 mm (EX3DV4)	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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### SAM PHANTOM V4.0C

Construction:	<p>The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50361 and IEC 62209.</p> <p>It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.</p>	
Shell Thickness:	2 ± 0.2 mm	
Filling Volume:	Approx. 25 liters	
Dimensions:	<p>Height: 210 mm;</p> <p>Length: 1000 mm;</p> <p>Width: 500 mm</p>	

### DEVICE HOLDER

Construction	<p>In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).</p>	 <p style="text-align: center;">Device Holder</p>
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### 1.11 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% (according to KDB865664 D01) from the target SAR values.

These tests were done at 835/1750/1900/2450/5200/5500/5800 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1. During the tests, the ambient temperature of the laboratory was 21.7°C, the relative humidity was 62% and the liquid depth above the ear reference points was  $\geq 15 \text{ cm} \pm 5 \text{ mm}$  (frequency  $\leq 3 \text{ GHz}$ ) or  $\geq 10 \text{ cm} \pm 5 \text{ mm}$  (frequency  $> 3 \text{ GHz}$ ) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

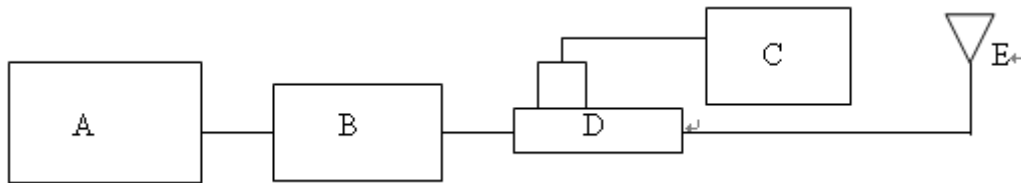
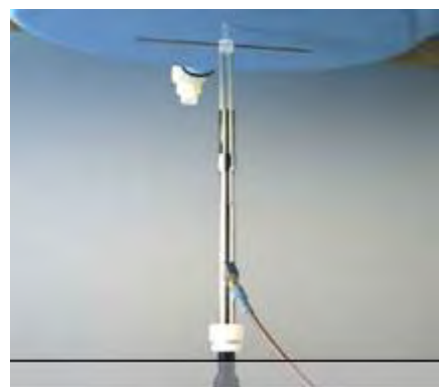


Fig. b The block diagram of system verification

- A. Signal Generator
- B. Amplifier
- C. Power Sensor
- D. Dual Directional Coupling
- E. Reference Dipole Antenna



Photograph of the Dipole Antenna

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**Type No.: PM-0480-BV**

Validation Kit	S/N	Frequency (MHz)		Target SAR (1g) (Pin=250mW) (mW/g)	Measured SAR (1g)(mW/g)	Deviation (%)	Measured Date
D835V2	4d063	835	Head	2.36	2.34	0.85%	May 04,2013
			Body	2.46	2.43	1.22%	
D1750V2	1008	1750	Head	8.76	8.47	3.31%	May 06,2013
			Body	9.03	9.25	-2.44%	
D1900V2	5d018	1900	Head	9.88	9.84	0.40%	May 08,2013
			Body	10.2	10.1	0.98%	
D2450V2	869	2450	Head	13.8	13.2	4.35%	May 10,2013
			Body	13	12.4	4.62%	
D5GHzV2	1040	5200	Head	8.2	8.18	0.24%	May 12,2013
			Body	7.37	7.31	0.81%	May 17,2013
D5GHzV2	1040	5500	Head	8.82	8.65	1.93%	May 15,2013
			Body	7.87	7.94	-0.89%	May 18,2013
D5GHzV2	1040	5800	Head	8.23	7.84	4.74%	May 20,2013
			Body	7.44	7.36	1.08%	

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**Type No.: PM-0481-BV**

Validation Kit	S/N	Frequency (MHz)		Target SAR (1g) (Pin=250mW) (mW/g)	Measured SAR (1g)(mW/g)	Deviation (%)	Measured Date
D835V2	4d063	835	Head	2.47	2.46	0.40%	Jul. 12,2013
			Body	2.41	2.44	-1.24%	
D1750V2	1008	1750	Head	9.04	8.87	1.88%	
			Body	9.46	9.08	4.02%	
D1900V2	5d027	1900	Head	9.71	10.1	-4.02%	
			Body	10.1	9.81	2.87%	
D2450V2	727	2450	Head	13.7	13.9	-1.46%	Jul. 18,2013
			Body	13.2	13.1	0.76%	
D5GHzV2	1104	5200	Head	8.27	7.89	4.59%	Jul. 16,2013
			Body	7.64	7.93	-3.80%	
D5GHzV2	1104	5300	Head	8.51	8.14	4.35%	Jul. 18,2013
			Body	7.77	7.59	2.32%	
D5GHzV2	1104	5600	Head	8.62	8.34	3.25%	Jul. 20,2013
			Body	8.25	8.3	-0.61%	Jul. 22,2013
D5GHzV2	1104	5800	Head	8.09	7.73	4.45%	Jul. 22,2013
			Body	7.6	7.57	0.39%	

Table 1. System validation (follow manufacture target value)

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### 1.12 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was  $\geq 15 \text{ cm} \pm 5 \text{ mm}$  (frequency  $\leq 3 \text{ GHz}$ ) or  $\geq 10 \text{ cm} \pm 5 \text{ mm}$  (frequency  $> 3 \text{ GHz}$ ) during all tests. (Appendix Fig. 2)

#### Type No.: PM-0480-BV

Measured Frequency (MHz)	Tissue Type	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Measurement Date
824.2	Head	41.556	0.899	41.62	0.88	-0.15%	2.13%	May 04,2013
826.4		41.545	0.899	41.596	0.883	-0.12%	1.82%	
835		41.5	0.9	41.49	0.891	0.02%	1.00%	
836.6		41.500	0.902	41.466	0.894	0.08%	0.86%	
846.6		41.500	0.912	41.345	0.904	0.37%	0.93%	
848.8		41.500	0.915	41.321	0.906	0.43%	0.97%	
824.2	Body	55.242	0.969	56.444	0.974	-2.18%	-0.50%	
826.4		55.234	0.969	56.43	0.976	-2.17%	-0.69%	
835		55.2	0.97	56.373	0.985	-2.12%	-1.55%	
836.6		55.195	0.972	56.36	0.987	-2.11%	-1.55%	
846.6		55.164	0.984	56.29	0.997	-2.04%	-1.29%	
848.8		55.158	0.987	56.275	0.999	-2.03%	-1.22%	
1712.4	Head	40.138	1.349	41.825	1.333	-4.20%	1.21%	May 06,2013
1732.4		40.107	1.361	41.774	1.35	-4.16%	0.80%	
1750		40.079	1.371	41.721	1.365	-4.10%	0.44%	
1752.6		40.075	1.373	41.71	1.367	-4.08%	0.40%	
1712.4	Body	53.531	1.465	52.796	1.439	1.37%	1.75%	
1732.4		53.478	1.477	52.753	1.46	1.36%	1.17%	
1750		53.432	1.488	52.711	1.477	1.35%	0.77%	
1752.6		53.425	1.490	52.702	1.48	1.35%	0.68%	

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Measured Frequency (MHz)	Tissue Type	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Measurement Date
1850.2	Head	40.000	1.400	41.227	1.334	-3.07%	4.71%	May 08,2013
1852.4		40.000	1.400	41.222	1.336	-3.06%	4.57%	
1880		40.000	1.400	41.162	1.361	-2.91%	2.79%	
1900		40.000	1.400	41.096	1.379	-2.74%	1.50%	
1907.6		40.000	1.400	41.068	1.387	-2.67%	0.93%	
1909.8		40.000	1.400	41.06	1.389	-2.65%	0.79%	
1850.2	Body	53.300	1.520	51.516	1.478	3.35%	2.76%	
1852.4		53.300	1.520	51.51	1.481	3.36%	2.57%	
1880		53.300	1.520	51.425	1.51	3.52%	0.66%	
1900		53.300	1.520	51.361	1.531	3.64%	-0.72%	
1907.6		53.300	1.520	51.337	1.54	3.68%	-1.32%	
1909.8		53.300	1.520	51.333	1.542	3.69%	-1.45%	
2412	Head	39.268	1.766	39.077	1.758	0.49%	0.47%	May 10,2013
2437		39.223	1.788	38.983	1.786	0.61%	0.14%	
2450		39.2	1.8	38.954	1.803	0.63%	-0.17%	
2462		39.185	1.813	38.925	1.817	0.66%	-0.22%	
2412	Body	52.751	1.914	54.466	1.89	-3.25%	1.24%	
2437		52.717	1.938	54.387	1.923	-3.17%	0.75%	
2450		52.7	1.95	54.364	1.942	-3.16%	0.41%	
2462		52.685	1.967	54.336	1.959	-3.13%	0.41%	

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Measured Frequency (MHz)	Tissue Type	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Measurement Date
5180	Head	36.009	4.635	36.261	4.551	-0.70%	1.80%	May 12,2013
5190		35.997	4.645	35.245	4.564	2.09%	1.74%	
5200		35.986	4.655	36.224	4.577	-0.66%	1.68%	
5220		35.963	4.676	36.183	4.603	-0.61%	1.55%	
5230		35.951	4.686	36.163	4.616	-0.59%	1.49%	
5240		35.940	4.696	36.144	4.629	-0.57%	1.43%	
5260		35.917	4.717	36.107	4.656	-0.53%	1.28%	
5270		35.906	4.727	36.08	4.669	-0.49%	1.22%	
5280		35.894	4.737	36.068	4.682	-0.48%	1.16%	
5300		35.871	4.758	36.028	4.709	-0.44%	1.02%	
5310		35.860	4.768	36.011	4.722	-0.42%	0.96%	
5320		35.849	4.778	35.983	4.735	-0.37%	0.90%	
5180		Body	49.041	5.276	49.602	5.273	-1.14%	
5190	49.028		5.288	49.578	5.288	-1.12%	-0.01%	
5200	49.014		5.299	49.549	5.303	-1.09%	-0.07%	
5220	48.987		5.323	49.516	5.337	-1.08%	-0.27%	
5230	48.974		5.334	49.501	5.351	-1.08%	-0.31%	
5240	48.960		5.346	49.48	5.363	-1.06%	-0.32%	
5260	48.933		5.369	49.432	5.391	-1.02%	-0.40%	
5270	48.919		5.381	49.414	5.404	-1.01%	-0.43%	
5280	48.906		5.393	49.382	5.418	-0.97%	-0.47%	
5300	48.879		5.416	49.321	5.443	-0.91%	-0.50%	
5310	48.865		5.428	49.302	5.465	-0.89%	-0.69%	
5320	48.851		5.439	48.28	5.477	1.17%	-0.69%	

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Measured Frequency (MHz)	Tissue Type	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Measurement Date
5500	Head	35.643	4.963	35.612	4.978	0.09%	-0.31%	May 15,2013
5510		35.631	4.973	35.598	4.992	0.09%	-0.39%	
5580		35.551	5.045	35.456	5.088	0.27%	-0.86%	
5590		35.540	5.055	35.438	5.101	0.29%	-0.91%	
5620		35.506	5.086	36.371	5.143	-2.44%	-1.13%	
5670		35.449	5.137	35.263	5.212	0.52%	-1.46%	
5700		35.414	5.168	35.202	5.254	0.60%	-1.67%	
5500	Body	48.607	5.650	48.911	5.734	-0.63%	-1.49%	May 18,2013
5510		48.594	5.661	48.881	5.746	-0.59%	-1.50%	
5580		48.499	5.743	48.734	5.86	-0.49%	-2.04%	
5590		48.485	5.755	48.72	5.874	-0.48%	-2.07%	
5620		48.444	5.790	48.664	5.907	-0.45%	-2.02%	
5670		48.376	5.848	48.541	5.991	-0.34%	-2.44%	
5700		48.336	5.883	48.527	6.038	-0.40%	-2.63%	
5745	Head	35.363	5.214	35.122	5.317	0.68%	-1.98%	May 20,2013
5755		35.351	5.224	35.09	5.331	0.74%	-2.05%	
5785		35.317	5.255	35.031	5.373	0.81%	-2.25%	
5795		35.306	5.265	35.014	5.387	0.83%	-2.32%	
5800		35.3	5.27	34.999	5.394	0.85%	-2.35%	
5805		35.294	5.275	34.992	5.401	0.86%	-2.39%	
5825		35.271	5.296	34.957	5.431	0.89%	-2.56%	
5745	Body	48.275	5.936	48.419	6.087	-0.30%	-2.55%	
5755		48.261	5.947	48.385	6.104	-0.26%	-2.63%	
5785		48.220	5.982	48.331	6.167	-0.23%	-3.08%	
5795		48.207	5.994	48.322	6.183	-0.24%	-3.15%	
5800		48.2	6	48.322	6.19	-0.25%	-3.17%	
5805		48.193	6.006	48.312	6.197	-0.25%	-3.18%	
5825		48.166	6.029	48.294	6.221	-0.27%	-3.18%	

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**Type No.: PM-0481-BV**

Measured Frequency (MHz)	Tissue Type	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Measurement Date
835	Head	41.5	0.9	41.904	0.896	-0.97%	0.44%	Jul. 12,2013
846.6		41.500	0.912	41.766	0.908	-0.64%	0.49%	
848.8		41.500	0.915	41.742	0.91	-0.58%	0.53%	
1732.4		40.107	1.361	41.77	1.351	-4.15%	0.72%	
1750		40.079	1.371	41.717	1.365	-4.09%	0.44%	
1900		40.000	1.400	41.052	1.38	-2.63%	1.43%	
1907.6		40.000	1.400	41.024	1.388	-2.56%	0.86%	
1909.8		40.000	1.400	41.015	1.39	-2.54%	0.71%	
835	Body	55.2	0.97	56.365	0.985	-2.11%	-1.55%	
846.6		55.164	0.984	56.284	0.997	-2.03%	-1.29%	
848.8		55.158	0.987	56.269	0.999	-2.02%	-1.22%	
1732.4		53.478	1.477	52.361	1.442	2.09%	2.39%	
1750		53.432	1.488	52.309	1.457	2.10%	2.11%	
1900		53.300	1.520	52.023	1.537	2.40%	-1.12%	
1907.6		53.300	1.520	51.997	1.546	2.44%	-1.71%	
1909.8		53.300	1.520	51.99	1.548	2.46%	-1.84%	

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Measured Frequency (MHz)	Tissue Type	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Measurement Date
2412	Head	39.268	1.766	39.253	1.769	0.04%	-0.16%	Jul. 18,2013
2450		39.2	1.8	39.129	1.813	0.18%	-0.72%	
2450	Body	52.7	1.95	53.768	1.939	-2.03%	0.56%	
2462		52.685	1.967	53.742	1.956	-2.01%	0.56%	
5180	Head	36.009	4.635	36.254	4.547	-0.68%	1.89%	Jul. 16,2013
5190		35.997	4.645	36.234	4.56	-0.66%	1.82%	
5200		35.986	4.655	36.213	4.574	-0.63%	1.74%	
5220		35.963	4.676	36.172	4.6	-0.58%	1.61%	
5230		35.951	4.686	36.152	4.613	-0.56%	1.55%	
5240		35.940	4.696	36.131	4.626	-0.53%	1.49%	
5180	Body	49.041	5.276	49.516	5.249	-0.97%	0.51%	Jul. 18,2013
5200		49.014	5.299	49.469	5.279	-0.93%	0.38%	
5220		48.987	5.323	49.428	5.313	-0.90%	0.18%	
5230		48.974	5.334	49.418	5.327	-0.91%	0.14%	
5240		48.960	5.346	49.401	5.34	-0.90%	0.11%	
5260	Head	35.917	4.717	36.09	4.653	-0.48%	1.35%	Jul. 18,2013
5300		35.871	4.758	36.009	4.705	-0.38%	1.10%	
5310		35.860	4.768	35.988	4.719	-0.36%	1.02%	
5320	35.849	4.778	35.968	4.732	-0.33%	0.96%		
5300	Body	48.879	5.416	49.244	5.419	-0.75%	-0.05%	
5310		48.865	5.428	49.217	5.436	-0.72%	-0.15%	
5320		48.851	5.439	49.196	5.453	-0.71%	-0.25%	

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Measured Frequency (MHz)	Tissue Type	Target Dielectric Constant, $\epsilon_r$	Target Conductivity, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon_r$	Measured Conductivity, $\sigma$ (S/m)	% dev $\epsilon_r$	% dev $\sigma$	Measurement Date
5500	Head	35.643	4.963	35.599	4.974	0.12%	-0.23%	Jul. 20,2013
5510		35.631	4.973	35.579	4.988	0.15%	-0.31%	
5580		35.551	5.045	35.435	5.084	0.33%	-0.78%	
5600		35.529	5.065	35.394	5.111	0.38%	-0.91%	
5670		35.449	5.137	35.251	5.146	0.56%	-0.18%	
5500	Body	48.607	5.650	48.831	5.709	-0.46%	-1.05%	Jul. 22,2013
5510		48.594	5.661	48.802	5.721	-0.43%	-1.05%	
5580		48.499	5.743	48.652	5.835	-0.32%	-1.60%	
5600		48.471	5.766	48.631	5.859	-0.33%	-1.61%	
5745	Head	35.363	5.214	35.097	5.312	0.75%	-1.89%	Jul. 22,2013
5755		35.351	5.224	35.077	5.326	0.78%	-1.95%	
5785		35.317	5.255	35.015	5.369	0.86%	-2.18%	
5800		35.3	5.27	34.985	5.39	0.89%	-2.28%	
5825		35.271	5.296	34.934	5.425	0.96%	-2.44%	
5745	Body	48.275	5.936	48.334	6.061	-0.12%	-2.11%	Jul. 22,2013
5755		48.261	5.947	48.299	6.078	-0.08%	-2.20%	
5795		48.207	5.994	48.244	6.157	-0.08%	-2.72%	
5800		48.2	6	48.242	6.164	-0.09%	-2.73%	

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid:

Frequency (MHz)	Mode	Ingredient						Total amount
		DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	
850	Head	—	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.0L(Kg)
	Body	—	631.68 g	11.72 g	1.2 g	—	600 g	1.0L(Kg)
1900	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
	Body	300.67 g	716.56 g	4.0 g	—	—	—	1.0L(Kg)
2450	Head	550ml	450ml	—	—	—	—	1.0L(Kg)
	Body	301.7ml	698.3ml	—	—	—	—	1.0L(Kg)

Simulating Liquids for 5 GHz, Manufactured by SPEAG:

Ingredients	Water	Esters, Emulsifiers, Inhibitors	Sodium and Salt
(% by weight)	60-80	20-40	0-1.5

Table 3. Recipes for tissue simulating liquid

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### 1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter.

Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over a 10 grams of tissue (defined as a tissue volume in the shape of a cube).

Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

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(2) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube).

Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR (Brain)	1.60 m W/g	8.00 m W/g
Spatial Average SAR (Whole Body)	0.08 m W/g	0.40 m W/g
Spatial Peak SAR (Hands/Feet/Ankle/Wrist)	4.00 m W/g	20.00 m W/g

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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## 2. Summary of Results

Type No.: PM-0480-BV

### GSM 850 MHz

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GSM (Head)	RE Cheek	-	128	824.2	33.5	33.3	4.71%	0.385	0.403	118
	RE Cheek	-	190	836.6	33.5	33.3	4.71%	0.408	0.427	119
	RE Cheek	-	251	848.8	33.5	33.3	4.71%	0.412	0.431	120
	RE Tilt	-	190	836.6	33.5	33.3	4.71%	0.293	0.307	121
	LE Cheek	-	190	836.6	33.5	33.3	4.71%	0.407	0.426	122
	LE Tilt	-	190	836.6	33.5	33.3	4.71%	0.329	0.345	123
GSM (Body-worn speech mode)	Front	15	190	836.6	33.5	33.3	4.71%	0.399	0.418	124
	Back	15	190	836.6	33.5	33.3	4.71%	0.439	0.460	125
GPRS (Hotspot) (1Dn4UP)	Front side	10	190	836.6	28	27.9	2.33%	0.528	0.540	126
	Back side	10	128	824.2	28	28	0.00%	0.709	0.709	127
	Back side	10	190	836.6	28	27.9	2.33%	0.786	0.804	128
	Back side	10	251	848.8	28	27.9	2.33%	0.873	0.893	129
	Back side*	10	251	848.8	28	27.9	2.33%	0.867	0.887	130
	Bottom side	10	190	836.6	28	27.9	2.33%	0.063	0.064	131
	Right side	10	190	836.6	28	27.9	2.33%	0.434	0.444	132
	Left side	10	190	836.6	28	27.9	2.33%	0.427	0.437	133

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

- # Using KDB941225 D03v01 and KDB941225 D04v01 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power for EDGE mode is lower than that in the GPRS mode.
- # According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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**GSM 1900 MHz**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GSM (Head)	RE Cheek	-	512	1850.2	30.5	30.4	2.33%	0.397	0.406	134
	RE Cheek	-	661	1880	30.5	30.3	4.71%	0.463	0.485	135
	RE Cheek	-	810	1909.8	30.5	30.4	2.33%	0.482	0.493	136
	RE Tilt	-	661	1880	30.5	30.3	4.71%	0.115	0.120	137
	LE Cheek	-	661	1880	30.5	30.3	4.71%	0.393	0.412	138
	LE Tilt	-	661	1880	30.5	30.3	4.71%	0.127	0.133	139
GSM (Body-worn speech mode)	Front side	15	661	1880	30.5	30.3	4.71%	0.294	0.308	140
	Back side	15	661	1880	30.5	30.3	4.71%	0.342	0.358	141
GPRS (Hotspot) (1Dn4UP)	Front side	10	512	1850.2	28	28	0.00%	0.934	0.934	142
	Front side	10	661	1880	28	27.8	4.71%	0.977	1.023	143
	Front side	10	810	1909.8	28	27.6	9.65%	1.17	1.283	144
	Front side -with Memory card	10	810	1909.8	28	27.6	9.65%	1.16	1.272	145
	Front side -with headset (MH410C)	10	810	1909.8	28	27.6	9.65%	1.19	1.305	146
	Front side -with headset (MH410C)*	10	810	1909.8	28	27.6	9.65%	1.22	1.338	147
	Back side	10	512	1850.2	28	28	0.00%	0.97	0.970	149
	Back side	10	661	1880	28	27.8	4.71%	1.11	1.162	150
	Back side	10	810	1909.8	28	27.6	9.65%	1.1	1.206	151
	Bottom side	10	512	1850.2	28	28	0.00%	0.905	0.905	152
	Bottom side	10	661	1880	28	27.8	4.71%	1	1.047	153
	Bottom side	10	810	1909.8	28	27.6	9.65%	1.13	1.239	154
	Right side	10	661	1880	28	27.8	4.71%	0.292	0.306	155
	Left side	10	661	1880	28	27.8	4.71%	0.298	0.312	156

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

# Using KDB941225 D03v01 and KDB941225 D04v01 to exclude SAR test requirements for EDGE modes due to the source-based time-averaged output power for EDGE mode is lower than that in the GPRS mode.

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WCDMA Band II**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	RE Cheek	-	9262	1852.4	24.5	24.40	2.33%	0.817	0.836	157
	RE Cheek	-	9400	1880	24.5	24.50	0.00%	0.863	0.863	158
	RE Cheek	-	9538	1907.6	24.5	24.09	9.90%	0.991	1.089	159
	RE Cheek*	-	9538	1907.6	24.5	24.09	9.90%	1.05	1.154	160
	RE Cheek -with Memory card	-	9538	1907.6	24.5	24.09	9.90%	0.983	1.080	162
	RE Tilt	-	9400	1880	24.5	24.50	0.00%	0.207	0.207	163
	LE Cheek	-	9400	1880	24.5	24.50	0.00%	0.726	0.726	164
	LE Tilt	-	9400	1880	24.5	24.50	0.00%	0.228	0.228	165
Body-worn speech mode	Front side	15	9400	1880	24.5	24.50	0.00%	0.583	0.583	166
	Back side	15	9400	1880	24.5	24.50	0.00%	0.505	0.505	167
Hotspot	Front side	10	9262	1852.4	24.5	24.40	2.33%	0.902	0.923	168
	Front side	10	9400	1880	24.5	24.50	0.00%	0.944	0.944	169
	Front side	10	9538	1907.6	24.5	24.09	9.90%	0.968	1.064	170
	Back side	10	9262	1852.4	24.5	24.40	2.33%	0.956	0.978	171
	Back side	10	9400	1880	24.5	24.50	0.00%	1	1.000	172
	Back side	10	9538	1907.6	24.5	24.09	9.90%	1.02	1.121	173
	Bottom side	10	9262	1852.4	24.5	24.40	2.33%	0.9	0.921	174
	Bottom side	10	9400	1880	24.5	24.50	0.00%	0.967	0.967	175
	Bottom side	10	9538	1907.6	24.5	24.09	9.90%	1.07	1.176	176
	Bottom side*	10	9538	1907.6	24.5	24.09	9.90%	1.07	1.176	177
	Right side	10	9400	1880	24.5	24.50	0.00%	0.284	0.284	178
Left side	10	9400	1880	24.5	24.50	0.00%	0.256	0.256	179	

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

# Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WCDMA Band IV**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	RE Cheek	-	1312	1712.4	24.5	24.29	4.95%	0.899	0.944	180
	RE Cheek	-	1412	1732.4	24.5	24.30	4.71%	0.948	0.993	181
	RE Cheek*	-	1412	1732.4	24.5	24.30	4.71%	0.937	0.981	182
	RE Cheek	-	1513	1752.6	24.5	24.48	0.46%	0.847	0.851	183
	RE Tilt	-	1412	1732.4	24.5	24.30	4.71%	0.27	0.283	184
	LE Cheek	-	1412	1732.4	24.5	24.30	4.71%	0.743	0.778	185
	LE Tilt	-	1412	1732.4	24.5	24.30	4.71%	0.266	0.279	186
Body-worn speech mode	Front side	15	1412	1732.4	24.5	24.30	4.71%	0.521	0.546	187
	Back side	15	1412	1732.4	24.5	24.30	4.71%	0.493	0.516	188
Hotspot	Front side	10	1312	1712.4	24.5	24.29	4.95%	1	1.050	189
	Front side	10	1412	1732.4	24.5	24.30	4.71%	1.01	1.058	190
	Front side*	10	1412	1732.4	24.5	24.30	4.71%	0.948	0.993	191
	Front side	10	1513	1752.6	24.5	24.48	0.46%	0.932	0.936	192
	Back side	10	1312	1712.4	24.5	24.29	4.95%	0.909	0.954	193
	Back side	10	1412	1732.4	24.5	24.30	4.71%	0.891	0.933	194
	Back side	10	1513	1752.6	24.5	24.48	0.46%	0.887	0.891	195
	Bottom side	10	1312	1712.4	24.5	24.29	4.95%	0.847	0.889	196
	Bottom side	10	1412	1732.4	24.5	24.30	4.71%	0.939	0.983	197
	Bottom side	10	1513	1752.6	24.5	24.48	0.46%	0.913	0.917	198
	Right side	10	1412	1732.4	24.5	24.30	4.71%	0.23	0.241	199
	Left side	10	1412	1732.4	24.5	24.30	4.71%	0.276	0.289	200

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

# Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WCDMA Band V**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	RE Cheek	-	4183	836.6	24.5	24.44	1.39%	0.344	0.349	201
	RE Tilt	-	4183	836.6	24.5	24.44	1.39%	0.242	0.245	202
	LE Cheek	-	4132	826.4	24.5	24.47	0.69%	0.38	0.383	203
	LE Cheek	-	4183	836.6	24.5	24.44	1.39%	0.345	0.350	204
	LE Cheek	-	4233	846.6	24.5	24.40	2.33%	0.519	0.531	205
	LE Tilt	-	4183	836.6	24.5	24.44	1.39%	0.261	0.265	206
Body-worn speech mode	Front side	15	4183	836.6	24.5	24.44	1.39%	0.227	0.230	207
	Back side	15	4183	836.6	24.5	24.44	1.39%	0.293	0.297	208
Hotspot	Front side	10	4183	836.6	24.5	24.44	1.39%	0.476	0.483	209
	Back side	10	4132	826.4	24.5	24.47	0.69%	0.747	0.752	210
	Back side	10	4183	836.6	24.5	24.44	1.39%	0.649	0.658	211
	Back side	10	4233	846.6	24.5	24.40	2.33%	0.91	0.931	212
	Back side*	10	4233	846.6	24.5	24.40	2.33%	0.905	0.926	213
	Bottom side	10	4183	836.6	24.5	24.44	1.39%	0.055	0.056	214
	Right side	10	4183	836.6	24.5	24.44	1.39%	0.434	0.440	215
	Left side	10	4183	836.6	24.5	24.44	1.39%	0.403	0.409	216

\* - repeated at the highest SAR measurement according to the FCC KDB 865664

- # Using KDB941225 D01v02 to exclude SAR test requirements for HSPA modes due to the maximum average output power of HSPA active is higher than that measured without HSPA using 12.2kbps RMC but increase less than 1/4 dB.
- # According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WLAN802.11 b**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	1	2412	15	14.96	0.93%	0.644	0.650	217
	RE Cheek	-	6	2437	15	14.99	0.23%	0.569	0.570	218
	RE Cheek	-	11	2462	15	14.95	1.16%	0.63	0.637	219
	RE Cheek -with Memory card	-	1	2412	15	14.96	0.93%	0.625	0.631	220
	RE Tilt	-	6	2437	15	14.99	0.23%	0.452	0.453	221
	LE Cheek	-	6	2437	15	14.99	0.23%	0.298	0.299	222
	LE Tilt	-	6	2437	15	14.99	0.23%	0.275	0.276	223
Hotspot	Front side	10	6	2437	15	14.99	0.23%	0.128	0.128	224
	Back side	10	1	2412	15	14.96	0.93%	0.148	0.149	225
	Back side	10	6	2437	15	14.99	0.23%	0.148	0.148	226
	Back side	10	11	2462	15	14.95	1.16%	0.179	0.181	227
	Top side	10	6	2437	15	14.99	0.23%	0.103	0.103	228
	Left side	10	6	2437	15	14.99	0.23%	0.089	0.089	229

- # Using KDB248227 D01v01r02 -SAR is not required for 802.11 g/HT20 channels when the maximum average output power is higher than that measured on the corresponding 802.11b channels but increase less than 1/4 dB.
- # According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WLAN802.11 a 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	36	5180	13	12.95	1.16%	0.268	0.271	230
	RE Cheek	-	44	5220	13	12.86	3.28%	0.266	0.275	231
	RE Tilt	-	36	5180	13	12.95	1.16%	0.262	0.265	232
	LE Cheek	-	36	5180	13	12.95	1.16%	0.183	0.185	233
	LE Tilt	-	36	5180	13	12.95	1.16%	0.231	0.234	234
Hotspot	Front side	10	36	5180	13	12.95	1.16%	0.033	0.033	235
	Back side	10	36	5180	13	12.95	1.16%	0.101	0.102	236
	Top side	10	36	5180	13	12.95	1.16%	0.136	0.138	237
	Top side	10	44	5220	13	12.86	3.28%	0.143	0.148	238
	Left side	10	36	5180	13	12.95	1.16%	0.046	0.047	239

# As per KDB248227 D01v01r02 , when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.

# As per KDB248227 D01v01r02 , when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".

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**WLAN802.11 n (20M) 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	36	5180	13	12.96	0.93%	0.244	0.246	240
	RE Tilt	-	36	5180	13	12.96	0.93%	0.289	0.292	241
	RE Tilt	-	48	5240	13	12.95	1.16%	0.384	0.388	242
	LE Cheek	-	36	5180	13	12.96	0.93%	0.221	0.223	243
	LE Tilt	-	36	5180	13	12.96	0.93%	0.28	0.283	244
Hotspot	Front side	10	36	5180	13	12.96	0.93%	0.02	0.020	245
	Back side	10	36	5180	13	12.96	0.93%	0.071	0.072	246
	Top side	10	36	5180	13	12.96	0.93%	0.095	0.096	247
	Top side	10	48	5240	13	12.95	1.16%	0.152	0.154	248
	Left side	10	36	5180	13	12.96	0.93%	0.032	0.032	249

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WLAN802.11 n (40M) 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	38	5190	12	11.88	2.80%	0.189	0.194	250
	RE Tilt	-	38	5190	12	11.88	2.80%	0.24	0.247	251
	RE Tilt	-	46	5230	12	11.85	3.51%	0.273	0.283	252
	LE Cheek	-	38	5190	12	11.88	2.80%	0.162	0.167	253
	LE Tilt	-	38	5190	12	11.88	2.80%	0.215	0.221	254
Hotspot	Front side	10	38	5190	12	11.88	2.80%	0.023	0.024	255
	Back side	10	38	5190	12	11.88	2.80%	0.059	0.061	256
	Top side	10	38	5190	12	11.88	2.80%	0.084	0.086	257
	Top side	10	46	5230	12	11.85	3.51%	0.105	0.109	258
	Left side	10	38	5190	12	11.88	2.80%	0.033	0.034	259

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WLAN802.11 a 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	56	5280	13	12.88	2.80%	0.396	0.407	260
	RE Tilt	-	56	5280	13	12.88	2.80%	0.465	0.478	261
	RE Tilt	-	60	5300	13	12.85	3.51%	0.563	0.583	262
	LE Cheek	-	56	5280	13	12.88	2.80%	0.348	0.358	263
	LE Tilt	-	56	5280	13	12.88	2.80%	0.435	0.447	264
Hotspot	Front side	10	56	5280	13	12.88	2.80%	0.037	0.038	265
	Back side	10	56	5280	13	12.88	2.80%	0.169	0.174	266
	Top side	10	56	5280	13	12.88	2.80%	0.177	0.182	267
	Top side	10	60	5300	13	12.85	3.51%	0.208	0.215	268
	Left side	10	56	5280	13	12.88	2.80%	0.082	0.084	269

# As per KDB248227 D01v01r02 , when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.

# As per KDB248227 D01v01r02 , when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".

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**WLAN802.11 n (20M) 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	52	5260	13	12.94	1.39%	0.344	0.349	270
	RE Tilt	-	52	5260	13	12.94	1.39%	0.409	0.415	271
	RE Tilt	-	64	5320	13	12.9	2.33%	0.524	0.536	272
	LE Cheek	-	52	5260	13	12.94	1.39%	0.312	0.316	273
	LE Tilt	-	52	5260	13	12.94	1.39%	0.372	0.377	274
Hotspot	Front side	10	52	5260	13	12.94	1.39%	0.032	0.032	275
	Back side	10	52	5260	13	12.94	1.39%	0.137	0.139	276
	Top side	10	52	5260	13	12.94	1.39%	0.151	0.153	277
	Top side	10	64	5320	13	12.9	2.33%	0.207	0.212	278
	Left side	10	52	5260	13	12.94	1.39%	0.051	0.052	279

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WLAN802.11 n (40M) 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	54	5270	12	11.94	1.39%	0.28	0.284	280
	RE Tilt	-	54	5270	12	11.94	1.39%	0.331	0.336	281
	RE Tilt	-	62	5310	12	11.91	2.09%	0.342	0.349	282
	LE Cheek	-	54	5270	12	11.94	1.39%	0.248	0.251	283
	LE Tilt	-	54	5270	12	11.94	1.39%	0.291	0.295	284
Hotspot	Front side	10	54	5270	12	11.94	1.39%	0.034	0.034	285
	Back side	10	54	5270	12	11.94	1.39%	0.112	0.114	286
	Top side	10	54	5270	12	11.94	1.39%	0.13	0.132	287
	Top side	10	62	5310	12	11.91	2.09%	0.145	0.148	288
	Left side	10	54	5270	12	11.94	1.39%	0.048	0.049	289

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WLAN802.11 a 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	100	5500	13	12.89	2.57%	0.429	0.440	290
	RE Cheek	-	116	5580	13	12.97	0.69%	0.407	0.410	291
	RE Cheek	-	124	5620	13	12.94	1.39%	0.585	0.593	292
	RE Cheek	-	140	5700	13	12.96	0.93%	0.461	0.465	293
	RE Tilt	-	100	5500	13	12.89	2.57%	0.503	0.516	294
	RE Tilt	-	116	5580	13	12.97	0.69%	0.466	0.469	295
	RE Tilt	-	124	5620	13	12.94	1.39%	0.532	0.539	296
	RE Tilt	-	140	5700	13	12.96	0.93%	0.492	0.497	297
	LE Cheek	-	100	5500	13	12.89	2.57%	0.42	0.431	298
	LE Cheek	-	116	5580	13	12.97	0.69%	0.508	0.512	299
	LE Cheek	-	124	5620	13	12.94	1.39%	0.577	0.585	300
	LE Cheek	-	140	5700	13	12.96	0.93%	0.496	0.501	301
	LE Tilt	-	100	5500	13	12.89	2.57%	0.494	0.507	302
	LE Tilt	-	116	5580	13	12.97	0.69%	0.496	0.499	303
	LE Tilt	-	124	5620	13	12.94	1.39%	0.607	0.615	304
	LE Tilt	-	140	5700	13	12.96	0.93%	0.44	0.444	305
Hotspot	Front side	10	116	5580	13	12.97	0.69%	0.047	0.047	306
	Back side	10	100	5500	13	12.89	2.57%	0.261	0.268	307
	Back side	10	116	5580	13	12.97	0.69%	0.311	0.313	308
	Back side	10	124	5620	13	12.94	1.39%	0.258	0.262	309
	Back side	10	140	5700	13	12.96	0.93%	0.174	0.176	310
	Back side - with Memory card	10	116	5580	13	12.97	0.69%	0.176	0.177	311
	Back side - with headset (MH410C)	10	116	5580	13	12.97	0.69%	0.205	0.206	312
	Top side	10	116	5580	13	12.97	0.69%	0.173	0.174	313
	Left side	10	116	5580	13	12.97	0.69%	0.102	0.103	314

- # As per KDB248227 D01v01r02 , when SAR at default channel where maximum power occurs is less than 0.4W/kg, SAR tests on other default channel is option.
- # As per KDB248227 D01v01r02 , when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".

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**WLAN802.11 n (20M) 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	100	5500	13	12.91	2.09%	0.516	0.527	315
	RE Cheek	-	116	5580	13	12.97	0.69%	0.5	0.503	316
	RE Cheek	-	140	5700	13	12.96	0.93%	0.432	0.436	317
	RE Tilt	-	100	5500	13	12.91	2.09%	0.614	0.627	318
	RE Tilt	-	116	5580	13	12.97	0.69%	0.576	0.580	319
	RE Tilt	-	140	5700	13	12.96	0.93%	0.459	0.463	320
	LE Cheek	-	100	5500	13	12.91	2.09%	0.544	0.555	321
	LE Cheek	-	116	5580	13	12.97	0.69%	0.547	0.551	322
	LE Cheek	-	140	5700	13	12.96	0.93%	0.479	0.483	323
	LE Tilt	-	100	5500	13	12.91	2.09%	0.535	0.546	324
	LE Tilt	-	116	5580	13	12.97	0.69%	0.595	0.599	325
	LE Tilt	-	140	5700	13	12.96	0.93%	0.38	0.384	326
Hotspot	Front side	10	116	5580	13	12.97	0.69%	0.031	0.031	327
	Back side	10	100	5500	13	12.91	2.09%	0.29	0.296	328
	Back side	10	116	5580	13	12.97	0.69%	0.203	0.204	329
	Back side	10	140	5700	13	12.96	0.93%	0.112	0.113	330
	Top side	10	116	5580	13	12.97	0.69%	0.178	0.179	331
	Left side	10	116	5580	13	12.97	0.69%	0.093	0.094	332

# As per KDB447498 D01v05r01, while the 1g/SAR at the channel of highest output power is less than 0.4 W/kg, where the transmission band corresponding to all channels is  $\geq 200$  MHz, testing for the other channels is not required

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**WLAN802.11 n (40M) 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	118	5590	12	11.97	0.69%	0.393	0.396	333
	RE Tilt	-	102	5510	12	11.79	4.95%	0.457	0.480	334
	RE Tilt	-	118	5590	12	11.97	0.69%	0.465	0.468	335
	RE Tilt	-	134	5670	12	11.92	1.86%	0.46	0.469	336
	LE Cheek	-	102	5510	12	11.79	4.95%	0.401	0.421	337
	LE Cheek	-	118	5590	12	11.97	0.69%	0.418	0.421	338
	LE Cheek	-	134	5670	12	11.92	1.86%	0.462	0.471	339
	LE Tilt	-	102	5510	12	11.79	4.95%	0.474	0.497	340
	LE Tilt	-	118	5590	12	11.97	0.69%	0.458	0.461	341
	LE Tilt	-	134	5670	12	11.92	1.86%	0.491	0.500	342
Hotspot	Front side	10	118	5590	12	11.97	0.69%	0.058	0.058	343
	Back side	10	102	5510	12	11.79	4.95%	0.161	0.169	344
	Back side	10	118	5590	12	11.97	0.69%	0.184	0.185	345
	Back side	10	134	5670	12	11.92	1.86%	0.153	0.156	346
	Top side	10	118	5590	12	11.97	0.69%	0.163	0.164	347
	Left side	10	118	5590	12	11.97	0.69%	0.085	0.086	348

# As per KDB447498 D01v05r01, while the 1g/SAR at the channel of highest output power is less than 0.4 W/kg, where the transmission band corresponding to all channels is  $\geq 200$  MHz, testing for the other channels is not required

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**WLAN802.11 a 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	149	5745	13	12.96	0.93%	0.238	0.240	349
	RE Tilt	-	149	5745	13	12.96	0.93%	0.272	0.275	350
	LE Cheek	-	149	5745	13	12.96	0.93%	0.255	0.257	351
	LE Tilt	-	149	5745	13	12.96	0.93%	0.322	0.325	352
	LE Tilt	-	157	5785	13	12.85	3.51%	0.312	0.323	353
	LE Tilt	-	161	5805	13	12.87	3.04%	0.301	0.310	354
Hotspot	Front side	10	149	5745	13	12.96	0.93%	0.05	0.050	355
	Back side	10	149	5745	13	12.96	0.93%	0.11	0.111	356
	Back side	10	157	5785	13	12.85	3.51%	0.096	0.099	357
	Back side	10	161	5805	13	12.87	3.04%	0.074	0.076	358
	Top side	10	149	5745	13	12.96	0.93%	0.047	0.047	359
	Left side	10	149	5745	13	12.96	0.93%	0.053	0.053	360

- # As per KDB248227 D01v01r02 , when SAR at default channel where maximum power occurs is less than 0.8W/kg, SAR tests on other default channel is option.
- # As per KDB248227 D01v01r02 , when the maximum average output channel in each frequency band is not include in the "default test channels", the maximum channel should be tested instead of an adjacent "default test channels".

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**WLAN802.11 n (20M) 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	149	5745	13	12.97	0.69%	0.278	0.280	361
	RE Tilt	-	149	5745	13	12.97	0.69%	0.28	0.282	362
	LE Cheek	-	149	5745	13	12.97	0.69%	0.286	0.288	363
	LE Tilt	-	149	5745	13	12.97	0.69%	0.324	0.326	364
	LE Tilt	-	157	5785	13	12.96	0.93%	0.362	0.365	365
	LE Tilt	-	165	5825	13	12.93	1.62%	0.311	0.316	366
Hotspot	Front side	10	149	5745	13	12.97	0.69%	0.031	0.031	367
	Back side	10	149	5745	13	12.97	0.69%	0.111	0.112	368
	Back side	10	157	5785	13	12.96	0.93%	0.108	0.109	369
	Back side	10	165	5825	13	12.93	1.62%	0.084	0.085	370
	Top side	10	149	5745	13	12.97	0.69%	0.07	0.070	371
	Left side	10	149	5745	13	12.97	0.69%	0.047	0.047	372

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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**WLAN802.11 n (40M) 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	159	5795	12	11.96	0.93%	0.233	0.235	373
	RE Tilt	-	159	5795	12	11.96	0.93%	0.27	0.272	374
	LE Cheek	-	159	5795	12	11.96	0.93%	0.272	0.275	375
	LE Tilt	-	151	5755	12	11.95	1.16%	0.368	0.372	376
	LE Tilt	-	159	5795	12	11.96	0.93%	0.331	0.334	377
Hotspot	Front side	10	159	5795	12	11.96	0.93%	0.026	0.026	378
	Back side	10	151	5755	12	11.95	1.16%	0.09	0.091	379
	Back side	10	159	5795	12	11.96	0.93%	0.072	0.073	380
	Top side	10	159	5795	12	11.96	0.93%	0.037	0.037	381
	Left side	10	159	5795	12	11.96	0.93%	0.031	0.031	382

# According to KDB447498 D01v05r01 the 1-g SAR for the highest output channel is less than 0.8 W/kg, where the transmission band corresponding to all channels is  $\leq 100$  MHz, testing for the other channels is not required.

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## Type No.: PM-0481-BV

### GSM 850 MHz

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GSM (Head)	RE Cheek	-	251	848.8	33.5	33.4	2.33%	0.37	0.379	383
GPRS (Hotspot) (1Dn4UP)	Back side	10	251	848.8	28	27.9	2.33%	0.817	0.836	384

### GSM 1900 MHz

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GSM (Head)	RE Cheek	-	810	1909.8	30.5	30.5	0.00%	0.437	0.437	385
GPRS (Hotspot) (1Dn4UP)	Front side -with headset (MH410C)	10	810	1909.8	28	28	0.00%	1.25	1.250	386

### WCDMA Band II

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	RE Cheek	-	9538	1907.6	24.5	24.19	7.40%	0.966	1.037	388
R99 (Hotspot)	Bottom side	10	9538	1907.6	24.5	24.19	7.40%	1.03	1.106	390

### WCDMA Band IV

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	RE Cheek	-	1412	1732.4	24.5	24.38	2.80%	0.794	0.816	391
R99 (Hotspot)	Front side	10	1412	1732.4	24.5	24.38	2.80%	0.978	1.005	392

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**WCDMA Band V**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
R99 (Head)	LE Cheek	-	4233	846.6	24.5	24.48	0.46%	0.438	0.440	393
R99 (Hotspot)	Back side	10	4233	846.6	24.5	24.48	0.46%	0.859	0.863	394

**WLAN802.11 b**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	1	2412	15	14.77	5.44%	0.5	0.527	395
Hotspot	Back side	10	11	2462	15	14.8	4.71%	0.143	0.150	396

**WLAN802.11 a 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	36	5180	13	12.92	1.86%	0.121	0.123	397
	RE Tilt	-	36	5180	13	12.92	1.86%	0.153	0.156	398
	RE Tilt	-	44	5220	13	12.82	4.23%	0.165	0.172	399
	LE Cheek	-	36	5180	13	12.92	1.86%	0.082	0.084	400
	LE Tilt	-	36	5180	13	12.92	1.86%	0.12	0.122	401
Hotspot	Front side	10	36	5180	13	12.92	1.86%	0.019	0.019	402
	Back side	10	36	5180	13	12.92	1.86%	0.078	0.079	403
	Top side	10	36	5180	13	12.92	1.86%	0.09	0.092	404
	Top side	10	44	5220	13	12.82	4.23%	0.093	0.097	405
	Left side	10	36	5180	13	12.92	1.86%	0.036	0.037	406

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**WLAN802.11 n (20M) 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Tilt	-	48	5240	13	12.92	1.86%	0.359	0.366	407
Hotspot	Top side	10	48	5240	13	12.92	1.86%	0.123	0.125	408

**WLAN802.11 n (40M) 5.2G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	38	5190	12	11.87	3.04%	0.125	0.129	409
	RE Tilt	-	38	5190	12	11.87	3.04%	0.168	0.173	410
	RE Tilt	-	46	5230	12	11.83	3.99%	0.162	0.168	411
	LE Cheek	-	38	5190	12	11.87	3.04%	0.129	0.133	412
	LE Tilt	-	38	5190	12	11.87	3.04%	0.161	0.166	413
Hotspot	Top side	10	46	5230	12	11.83	3.99%	0.088	0.092	414

**WLAN802.11 a 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Tilt	-	60	5300	13	12.81	4.47%	0.531	0.555	415
Hotspot	Top side	10	60	5300	13	12.81	4.47%	0.174	0.182	416

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**WLAN802.11 n (20M) 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	52	5260	13	12.91	2.09%	0.198	0.202	417
	RE Tilt	-	52	5260	13	12.91	2.09%	0.238	0.243	418
	RE Tilt	-	64	5320	13	12.89	2.57%	0.35	0.359	419
	LE Cheek	-	52	5260	13	12.91	2.09%	0.176	0.180	420
	LE Tilt	-	52	5260	13	12.91	2.09%	0.22	0.225	421
Hotspot	Top side	10	64	5320	13	12.89	2.57%	0.177	0.182	422

**WLAN802.11 n (40M) 5.3G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Tilt	-	62	5310	12	11.88	2.80%	0.32	0.329	423
Hotspot	Top side	10	62	5310	12	11.88	2.80%	0.149	0.153	424

**WLAN802.11 a 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	LE Cheek	-	116	5580	13	12.95	1.16%	0.527	0.533	425
Hotspot	Back side	10	116	5580	13	12.95	1.16%	0.273	0.276	426

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**WLAN802.11 n (20M) 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Tilt	-	100	5500	13	12.89	2.57%	0.538	0.552	427
Hotspot	Back side	10	100	5500	13	12.89	2.57%	0.325	0.333	428

**WLAN802.11 n (40M) 5.5G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	134	5670	12	11.9	2.33%	0.221	0.226	429
	RE Tilt	-	134	5670	12	11.9	2.33%	0.241	0.247	430
	LE Cheek	-	134	5670	12	11.9	2.33%	0.262	0.268	431
	LE Tilt	-	102	5510	12	11.77	5.44%	0.315	0.332	432
	LE Tilt	-	134	5670	12	11.9	2.33%	0.299	0.306	433
Hotspot	Back side	10	102	5510	12	11.77	5.44%	0.177	0.187	434

**WLAN802.11 a 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	LE Tilt	-	149	5745	13	12.92	1.86%	0.266	0.271	435
Hotspot	Back side	10	149	5745	13	12.92	1.86%	0.089	0.091	436

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**WLAN802.11 n (20M) 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	RE Cheek	-	149	5745	13	12.92	1.86%	0.212	0.216	437
	RE Tilt	-	149	5745	13	12.92	1.86%	0.196	0.200	438
	LE Cheek	-	149	5745	13	12.92	1.86%	0.225	0.229	439
	LE Tilt	-	149	5745	13	12.92	1.86%	0.244	0.249	440
	LE Tilt	-	157	5785	13	12.9	2.33%	0.18	0.184	441
	LE Tilt	-	165	5825	13	12.9	2.33%	0.158	0.162	442
Hotspot	Back side	10	149	5745	13	12.92	1.86%	0.094	0.096	443

**WLAN802.11 n (40M) 5.8G**

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
Head	LE Tilt	-	151	5755	12	11.9	2.33%	0.293	0.300	444
Hotspot	Front side	10	151	5755	12	11.9	2.33%	0.034	0.035	445
	Back side	10	151	5755	12	11.9	2.33%	0.127	0.130	446
	Back side	10	159	5795	12	11.9	2.33%	0.107	0.109	447
	Top side	10	151	5755	12	11.9	2.33%	0.088	0.090	448
	Left side	10	151	5755	12	11.9	2.33%	0.048	0.049	449

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### 3. Simultaneous Transmission Analysis

#### Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Head	Hot Spot
GSM850/1900 Voice + 2.4GHz Wi-Fi	Yes	No
UMTS B2/B4/B5 Voice + 2.4GHz Wi-Fi	Yes	No
GSM850/1900 Voice + 5GHz Wi-Fi	Yes	No
UMTS B2/B4/B5 Voice + 5GHz Wi-Fi	Yes	No
GPRS850/1900 Data + 2.4GHz Wi-Fi	No	Yes
UMTS B2/B4/B5 Data + 2.4GHz Wi-Fi	No	Yes
GPRS850/1900 Data + 5GHz Wi-Fi	No	Yes
UMTS B2/B4/B5 Data + 5GHz Wi-Fi	No	Yes
GSM850/1900 Data + 2.4GHz Bluetooth	No	Yes
UMTS B2/B4/B5 Data + 2.4GHz Bluetooth	No	Yes

#### Notes:

1. GSM & WCDMA share the same antenna path and cannot transmit simultaneously
2. Bluetooth, 5GHz WiFi, and 2.4GHz WiFi share the same antenna path and cannot transmit simultaneously

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## Simultaneous Transmission Combination

### Type No.: PM-0480-BV

reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR <1.6W/kg	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN			
GSM 850	Head	Right cheek	0.431	0.650	1.081	-	-
		Right tilt	0.307	0.453	0.760	-	-
		Left cheek	0.426	0.299	0.725	-	-
		Left tilt	0.345	0.276	0.621	-	-
GPRS 850 (1Dn4UP)	Hotspot	Front	0.54	0.128	0.668	-	-
		Back	0.893	0.181	1.074	-	-
		Top	-	0.103	-	-	-
		Bottom	0.064	-	-	-	-
		Right	0.444	-	-	-	-
		Left	0.437	0.089	0.526	-	-
GSM 1900	Head	Right cheek	0.493	0.650	1.143	-	-
		Right tilt	0.12	0.453	0.573	-	-
		Left cheek	0.412	0.299	0.711	-	-
		Left tilt	0.133	0.276	0.409	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.338	0.128	1.466	-	-
		Back	1.206	0.181	1.387	-	-
		Top	-	0.103	-	-	-
		Bottom	1.239	-	-	-	-
		Right	0.306	-	-	-	-
		Left	0.312	0.089	0.401	-	-

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reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band II	Head	Right cheek	1.154	0.650	<b>1.804</b>	84.4	0.029
		Right tilt	0.207	0.453	0.660	-	-
		Left cheek	0.726	0.299	1.025	-	-
		Left tilt	0.228	0.276	0.504	-	-
	Hotspot	Front	1.064	0.128	1.192	-	-
		Back	1.121	0.181	1.302	-	-
		Top	-	0.103	-	-	-
		Bottom	1.176	-	-	-	-
		Right	0.284	-	-	-	-
		Left	0.256	0.089	0.345	-	-
WCDMA Band IV	Head	Right cheek	0.993	0.650	<b>1.643</b>	82.3	0.026
		Right tilt	0.283	0.453	0.736	-	-
		Left cheek	0.778	0.299	1.077	-	-
		Left tilt	0.279	0.276	0.555	-	-
	Hotspot	Front	1.058	0.128	1.186	-	-
		Back	0.954	0.181	1.135	-	-
		Top	-	0.103	-	-	-
		Bottom	0.983	-	-	-	-
		Right	0.241	-	-	-	-
		Left	0.289	0.089	0.378	-	-

# We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.022 with less than 0.04. According to KDB447498 D01v05r01 simultaneous transmission SAR evaluation is not required.

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reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band V	Head	Right cheek	0.349	0.650	0.999	-	-
		Right tilt	0.245	0.453	0.698	-	-
		Left cheek	0.531	0.299	0.830	-	-
		Left tilt	0.265	0.276	0.541	-	-
	Hotspot	Front	0.483	0.128	0.611	-	-
		Back	0.931	0.181	1.112	-	-
		Top	-	0.103	-	-	-
		Bottom	0.056	-	-	-	-
		Right	0.44	-	-	-	-
		Left	0.409	0.089	0.498	-	-

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reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.431	0.28	0.711	-	-
		Right tilt	0.307	0.282	0.589	-	-
		Left cheek	0.426	0.288	0.714	-	-
		Left tilt	0.345	0.372	0.717	-	-
GPRS 850 (1Dn4UP)	Hotspot	Front	0.54	0.05	0.59	-	-
		Back	0.893	0.112	1.005	-	-
		Top	-	0.07	-	-	-
		Bottom	0.064	-	-	-	-
		Right	0.444	-	-	-	-
		Left	0.437	0.053	0.49	-	-
GSM 1900	Head	Right cheek	0.493	0.28	0.773	-	-
		Right tilt	0.12	0.282	0.402	-	-
		Left cheek	0.412	0.288	0.7	-	-
		Left tilt	0.133	0.372	0.505	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.338	0.05	1.388	-	-
		Back	1.206	0.112	1.318	-	-
		Top	-	0.07	-	-	-
		Bottom	1.239	-	-	-	-
		Right	0.306	-	-	-	-
		Left	0.312	0.053	0.365	-	-

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reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation								
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )	
			WWAN	WLAN	<1.6W/kg			
WCDMA Band II	Head	Right cheek	1.154	0.28	1.434	-	-	
		Right tilt	0.207	0.282	0.489	-	-	
		Left cheek	0.726	0.288	1.014	-	-	
		Left tilt	0.228	0.372	0.600	-	-	
	Hotspot	Front	1.064	0.05	1.114	-	-	
		Back	1.121	0.112	1.233	-	-	
		Top	-	0.07	-	-	-	
		Bottom	1.176	-	-	-	-	
		Right	0.284	-	-	-	-	
		Left	0.256	0.053	0.309	-	-	
	WCDMA Band IV	Head	Right cheek	0.993	0.28	1.273	-	-
			Right tilt	0.283	0.282	0.565	-	-
Left cheek			0.778	0.288	1.066	-	-	
Left tilt			0.279	0.372	0.651	-	-	
Hotspot		Front	1.058	0.05	1.108	-	-	
		Back	0.954	0.112	1.066	-	-	
		Top	-	0.07	-	-	-	
		Bottom	0.983	-	-	-	-	
		Right	0.241	-	-	-	-	
		Left	0.289	0.053	0.342	-	-	

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reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band V	Head	Right cheek	0.349	0.28	0.629	-	-
		Right tilt	0.245	0.282	0.527	-	-
		Left cheek	0.531	0.288	0.819	-	-
		Left tilt	0.265	0.372	0.637	-	-
	Hotspot	Front	0.483	0.05	0.533	-	-
		Back	0.931	0.112	1.043	-	-
		Top	-	0.07	-	-	-
		Bottom	0.056	-	-	-	-
		Right	0.44	-	-	-	-
		Left	0.409	0.053	0.462	-	-

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reported SAR WWAN and WLAN UNII 5GHz, ΣSAR evaluation							
Frequency band	Position		reported SAR / W/kg		ΣSAR	Calculated distance (mm)	SPLSR (≤0.04)
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.431	0.593	1.024	-	-
		Right tilt	0.307	0.627	0.934	-	-
		Left cheek	0.426	0.585	1.011	-	-
		Left tilt	0.345	0.615	0.96	-	-
GPRS 850 (1Dn4UP)	Hotspot	Front	0.54	0.058	0.598	-	-
		Back	0.893	0.313	1.206	-	-
		Top	-	0.215	-	-	-
		Bottom	0.064	-	-	-	-
		Right	0.444	-	-	-	-
		Left	0.437	0.103	0.54	-	-
GSM 1900	Head	Right cheek	0.493	0.593	1.086	-	-
		Right tilt	0.12	0.627	0.747	-	-
		Left cheek	0.412	0.585	0.997	-	-
		Left tilt	0.133	0.615	0.748	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.338	0.058	1.396	-	-
		Back	1.206	0.313	1.519	-	-
		Top	-	0.215	-	-	-
		Bottom	1.239	-	-	-	-
		Right	0.306	-	-	-	-
		Left	0.312	0.103	0.415	-	-

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reported SAR WWAN and WLAN UNII 5GHz, $\Sigma$ SAR evaluation								
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )	
			WWAN	WLAN	<1.6W/kg			
WCDMA Band II	Head	Right cheek	1.154	0.593	<b>1.747</b>	92.1	0.025	
		Right tilt	0.207	0.627	0.834	-	-	
		Left cheek	0.726	0.585	1.311	-	-	
		Left tilt	0.228	0.615	0.843	-	-	
	Hotspot	Front	1.064	0.058	1.122	-	-	
		Back	1.121	0.313	1.434	-	-	
		Top	-	0.215	-	-	-	
		Bottom	1.176	-	-	-	-	
		Right	0.284	-	-	-	-	
		Left	0.256	0.103	0.359	-	-	
	WCDMA Band IV	Head	Right cheek	0.993	0.593	1.586	-	-
			Right tilt	0.283	0.627	0.910	-	-
Left cheek			0.778	0.585	1.363	-	-	
Left tilt			0.279	0.615	0.894	-	-	
Hotspot		Front	1.058	0.058	1.116	-	-	
		Back	0.954	0.313	1.267	-	-	
		Top	-	0.215	-	-	-	
		Bottom	0.983	-	-	-	-	
		Right	0.241	-	-	-	-	
		Left	0.289	0.103	0.392	-	-	

# We calculate the peak location separation ratio of simultaneous transmitting antenna pair, the SPLSR value is 0.022 with less than 0.04. According to KDB447498 D01v05r01 simultaneous transmission SAR evaluation is not required.

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reported SAR WWAN and WLAN UNII 5GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band V	Head	Right cheek	0.349	0.593	0.942	-	-
		Right tilt	0.245	0.627	0.872	-	-
		Left cheek	0.531	0.585	1.116	-	-
		Left tilt	0.265	0.615	0.88	-	-
	Hotspot	Front	0.483	0.058	0.541	-	-
		Back	0.931	0.313	1.244	-	-
		Top	-	0.215	-	-	-
		Bottom	0.056	-	-	-	-
		Right	0.44	-	-	-	-
		Left	0.409	0.103	0.512	-	-

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reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	Bluetooth	<1.6W/kg		
GPRS 850 (1Dn4UP)	Hotspot	Front	0.54	0.184	0.724	-	-
		Back	0.893	0.184	1.077	-	-
		Top	-	0.184	-	-	-
		Bottom	0.064	-	-	-	-
		Right	0.444	-	-	-	-
		Left	0.437	0.184	0.621	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.338	0.184	1.522	-	-
		Back	1.206	0.184	1.39	-	-
		Top	-	0.184	-	-	-
		Bottom	1.239	-	-	-	-
		Right	0.306	-	-	-	-
		Left	0.312	0.184	0.496	-	-
WCDMA Band II	Hotspot	Front	1.064	0.184	1.248	-	-
		Back	1.121	0.184	1.305	-	-
		Top	-	0.184	-	-	-
		Bottom	1.176	-	-	-	-
		Right	0.284	-	-	-	-
		Left	0.256	0.184	0.440	-	-
WCDMA Band IV	Hotspot	Front	1.058	0.184	1.242	-	-
		Back	0.954	0.184	1.138	-	-
		Top	-	0.184	-	-	-
		Bottom	0.983	-	-	-	-
		Right	0.241	-	-	-	-
		Left	0.289	0.184	0.473	-	-

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reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	Bluetooth	<1.6W/kg		
WCDMA Band V	Hotspot	Front	0.483	0.184	0.667	-	-
		Back	0.931	0.184	1.115	-	-
		Top	-	0.184	-	-	-
		Bottom	0.056	-	-	-	-
		Right	0.44	-	-	-	-
		Left	0.409	0.184	0.593	-	-

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reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.379	0.527	0.906	-	-
		Right tilt	-	-	-	-	-
		Left cheek	-	-	-	-	-
		Left tilt	-	-	-	-	-
GPRS 850 (1Dn4UP)	Hotspot	Front	-	-	-	-	-
		Back	0.836	0.15	0.986	-	-
		Top	-	-	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	-	-	-	-
GSM 1900	Head	Right cheek	0.437	0.527	0.964	-	-
		Right tilt	-	-	-	-	-
		Left cheek	-	-	-	-	-
		Left tilt	-	-	-	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.25	-	-	-	-
		Back	-	0.15	-	-	-
		Top	-	-	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	-	-	-	-

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reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band II	Head	Right cheek	1.037	0.527	1.564	-	-
		Right tilt	-	-	-	-	-
		Left cheek	-	-	-	-	-
		Left tilt	-	-	-	-	-
	Hotspot	Front	-	-	-	-	-
		Back	-	0.15	-	-	-
		Top	-	-	-	-	-
		Bottom	1.106	-	-	-	-
		Right	-	-	-	-	-
		Left	-	-	-	-	-
WCDMA Band IV	Head	Right cheek	0.816	0.527	1.343	-	-
		Right tilt	-	-	-	-	-
		Left cheek	-	-	-	-	-
		Left tilt	-	-	-	-	-
	Hotspot	Front	1.005	-	-	-	-
		Back	-	0.15	-	-	-
		Top	-	-	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	-	-	-	-

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reported SAR WWAN and WLAN DTS 2.4GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band V	Head	Right cheek	-	0.527	-	-	-
		Right tilt	-	-	-	-	-
		Left cheek	0.44	-	-	-	-
		Left tilt	-	-	-	-	-
	Hotspot	Front	-	-	-	-	-
		Back	0.863	0.15	1.013	-	-
		Top	-	-	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	-	-	-	-

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reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.379	0.216	0.595	-	-
		Right tilt	-	0.2	-	-	-
		Left cheek	-	0.229	-	-	-
		Left tilt	-	0.3	-	-	-
GPRS 850 (1Dn4UP)	Hotspot	Front	-	0.035	-	-	-
		Back	0.836	0.13	0.966	-	-
		Top	-	0.09	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.049	-	-	-
GSM 1900	Head	Right cheek	0.437	0.216	0.653	-	-
		Right tilt	-	0.2	-	-	-
		Left cheek	-	0.229	-	-	-
		Left tilt	-	0.3	-	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.25	0.035	1.285	-	-
		Back	-	0.13	-	-	-
		Top	-	0.09	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.049	-	-	-

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reported SAR WWAN and WLAN DTS 5.8 GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band II	Head	Right cheek	1.037	0.216	1.253	-	-
		Right tilt	-	0.2	-	-	-
		Left cheek	-	0.229	-	-	-
		Left tilt	-	0.3	-	-	-
	Hotspot	Front	-	0.035	-	-	-
		Back	-	0.13	-	-	-
		Top	-	0.09	-	-	-
		Bottom	1.106	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.049	-	-	-
WCDMA Band IV	Head	Right cheek	0.816	0.216	1.032	-	-
		Right tilt	-	0.2	-	-	-
		Left cheek	-	0.229	-	-	-
		Left tilt	-	0.3	-	-	-
	Hotspot	Front	1.005	0.035	1.04	-	-
		Back	-	0.13	-	-	-
		Top	-	0.09	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.049	-	-	-

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reported SAR WWAN and WLAN DTS 5.8 GHz, ΣSAR evaluation							
Frequency band	Position		reported SAR / W/kg		ΣSAR	Calculated distance (mm)	SPLSR (≤0.04)
			WWAN	WLAN	<1.6W/kg		
WCDMA Band V	Head	Right cheek	-	0.216	-	-	-
		Right tilt	-	0.2	-	-	-
		Left cheek	0.44	0.229	0.669	-	-
		Left tilt	-	0.3	-	-	-
	Hotspot	Front	-	0.035	-	-	-
		Back	0.863	0.13	0.993	-	-
		Top	-	0.09	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.049	-	-	-

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reported SAR WWAN and WLAN UNII 5GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
GSM 850	Head	Right cheek	0.379	0.226	0.605	-	-
		Right tilt	-	0.555	-	-	-
		Left cheek	-	0.533	-	-	-
		Left tilt	-	0.332	-	-	-
GPRS 850 (1Dn4UP)	Hotspot	Front	-	0.019	-	-	-
		Back	0.836	0.333	1.169	-	-
		Top	-	0.182	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.037	-	-	-
GSM 1900	Head	Right cheek	0.437	0.226	0.663	-	-
		Right tilt	-	0.555	-	-	-
		Left cheek	-	0.533	-	-	-
		Left tilt	-	0.332	-	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.25	0.019	1.269	-	-
		Back	-	0.333	-	-	-
		Top	-	0.182	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.037	-	-	-

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reported SAR WWAN and WLAN UNII 5GHz, ΣSAR evaluation							
Frequency band	Position		reported SAR / W/kg		ΣSAR	Calculated distance (mm)	SPLSR (≤0.04)
			WWAN	WLAN	<1.6W/kg		
WCDMA Band II	Head	Right cheek	1.037	0.226	1.263	-	-
		Right tilt	-	0.555	-	-	-
		Left cheek	-	0.533	-	-	-
		Left tilt	-	0.332	-	-	-
	Hotspot	Front	-	0.019	-	-	-
		Back	-	0.333	-	-	-
		Top	-	0.182	-	-	-
		Bottom	1.106	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.037	-	-	-
WCDMA Band IV	Head	Right cheek	0.816	0.226	1.042	-	-
		Right tilt	-	0.555	-	-	-
		Left cheek	-	0.533	-	-	-
		Left tilt	-	0.332	-	-	-
	Hotspot	Front	1.005	0.019	1.024	-	-
		Back	-	0.333	-	-	-
		Top	-	0.182	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.037	-	-	-

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reported SAR WWAN and WLAN UNII 5GHz, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	WLAN	<1.6W/kg		
WCDMA Band V	Head	Right cheek	-	0.226	-	-	-
		Right tilt	-	0.555	-	-	-
		Left cheek	0.44	0.533	0.973	-	-
		Left tilt	-	0.332	-	-	-
	Hotspot	Front	-	0.019	-	-	-
		Back	0.863	0.333	1.196	-	-
		Top	-	0.182	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.037	-	-	-

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reported SAR WWAN and Bluetooth, ΣSAR evaluation							
Frequency band	Position		reported SAR / W/kg		ΣSAR	Calculated distance (mm)	SPLSR (≤0.04)
			WWAN	Bluetooth	<1.6W/kg		
GPRS 850 (1Dn4UP)	Hotspot	Front	-	0.214	-	-	-
		Back	0.836	0.214	1.05	-	-
		Top	-	0.214	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.214	-	-	-
GPRS 1900 (1Dn4UP)	Hotspot	Front	1.25	0.214	1.464	-	-
		Back	-	0.214	-	-	-
		Top	-	0.214	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.214	-	-	-
WCDMA Band II	Hotspot	Front	-	0.214	-	-	-
		Back	-	0.214	-	-	-
		Top	-	0.214	-	-	-
		Bottom	1.106	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.214	-	-	-
WCDMA Band IV	Hotspot	Front	1.005	0.214	1.219	-	-
		Back	-	0.214	-	-	-
		Top	-	0.214	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.214	-	-	-

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reported SAR WWAN and Bluetooth, $\Sigma$ SAR evaluation							
Frequency band	Position		reported SAR / W/kg		$\Sigma$ SAR	Calculated distance (mm)	SPLSR ( $\leq 0.04$ )
			WWAN	Bluetooth	<1.6W/kg		
WCDMA Band V	Hotspot	Front	-	0.214	-	-	-
		Back	0.863	0.214	1.077	-	-
		Top	-	0.214	-	-	-
		Bottom	-	-	-	-	-
		Right	-	-	-	-	-
		Left	-	0.214	-	-	-

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## 4. Instruments List

Device	Manufacturer	Type	Serial number	Date of last calibration	Date of next calibration
Dosimetric E-Field Probe	Schmid & Partner Engineering AG	ES3DV3	3071	Jun.22,2012	Jun.21,2013
		EX3DV4	3820	Dec.10,2012	Dec.09,2013
		EX3DV4	3848	Apr.30,2013	Apr.29,2014
835/1750/1900/2450 /5200/5500/5800 MHz System Validation Dipole	Schmid & Partner Engineering AG	D835V2	4d063	May25,2012	May24,2013
		D1750V2	1008	May29,2012	May28,2013
		D1900V2	5d018	Jun.21,2012	Jun.20,2013
		D2450V2	869	Jun.15,2012	Jun.14,2013
		D5GHzV2	1040	Jun.19,2012	Jun.18,2013
		D835V2	4d063	May28,2013	May27,2014
		D1750V2	1008	May29,2013	May28,2014
		D1900V2	5d027	May02,2013	May01,2014
		D2450V2	727	May02,2013	May01,2014
		D5GHzV2	1104	May07,2013	May06,2014
Data acquisition Electronics	Schmid & Partner Engineering AG	DAE4	1336	Jun.05,2012	Jun.04,2013
				May23,2013	May22,2014
Software	Schmid & Partner Engineering AG	DASY 52 V52.8	N/A	Calibration not required	Calibration not required
Phantom	Schmid & Partner Engineering AG	SAM	N/A	Calibration not required	Calibration not required
Network Analyzer	Agilent	E5071C	MY46107530	Feb.22,2013	Feb.21,2014
Dielectric Probe Kit	Agilent	85070E	MY44300677	Calibration not required	Calibration not required
Dual-directional coupler	Agilent	772D	MY46151242	Jul.05,2012	Jul.04,2013
		778D	MY48220468	Jul.04,2013	Jul.03,2014
RF Signal Generator	Agilent	N5181A	MY50141235	Mar.29,2013	Mar.28,2014
				Dec.12,2010	Dec.11,2013

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Device	Manufacturer	Type	Serial number	Date of last calibration	Date of next calibration
Power Meter	Agilent	E4417A	MY51410006	Oct.24,2011	Oct.23,2013
Power Sensor	Agilent	E9301H	MY51470002	Nov.22,2012	Nov.21,2013
Radio Communication Test	R&S	CMU200	122498	Jun.27,2012	Jun.26,2013
			113505	May14,2013	May13,2014
TECPEL	Digital thermometer	DTM-303A	TP130074	Mar.04,2013	Mar.03,2014
Power Meter	Anritsu	MA2411B	917032	Feb.08,2012	Feb.07,2014
Power Sensor	Anritsu	ML2495A	1005007	Feb.08,2012	Feb.07,2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	Apr.15,2013	Apr.14,2014
Spectrum Analyzer	Agilent	E4440A	MY45304525	Mar.15,2013	Mar.14,2014

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## 5. Measurements

**Type No.:** PM-0480-BV

Date: 2013/5/4

### RE Cheek\_CH128

Communication System: GSM; Frequency: 824.2 MHz

Medium parameters used :  $f = 824.2$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 41.62$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.410 W/kg

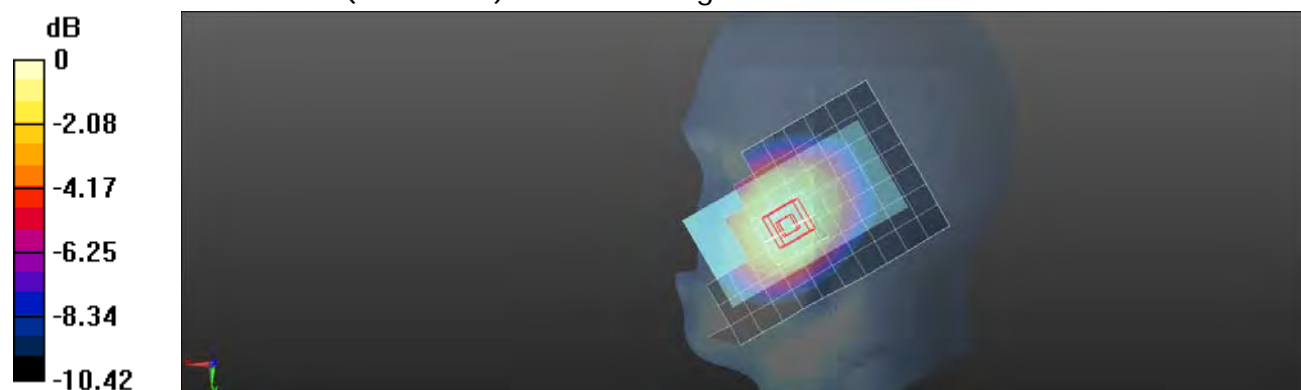
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.001 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.490 W/kg

**SAR(1 g) = 0.385 W/kg; SAR(10 g) = 0.285 W/kg**

Maximum value of SAR (measured) = 0.418 W/kg



0 dB = 0.418 W/kg = -3.79 dBW/kg

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Date: 2013/5/4

## RE Cheek\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.424 W/kg

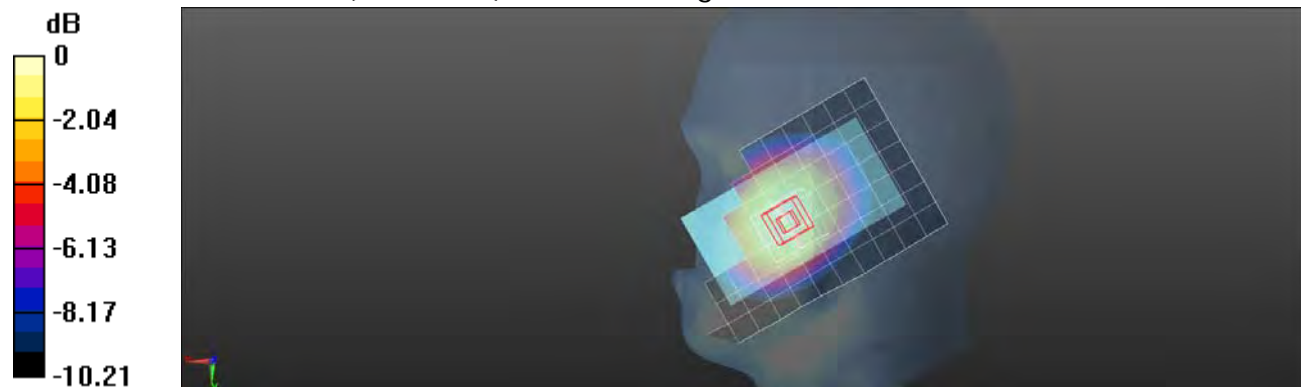
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.986 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.520 W/kg

**SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.299 W/kg**

Maximum value of SAR (measured) = 0.440 W/kg



0 dB = 0.440 W/kg = -3.57 dBW/kg

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Date: 2013/5/4

## RE Cheek\_CH251

Communication System: GSM; Frequency: 848.8 MHz

 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.906$  S/m;  $\epsilon_r = 41.321$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.437 W/kg

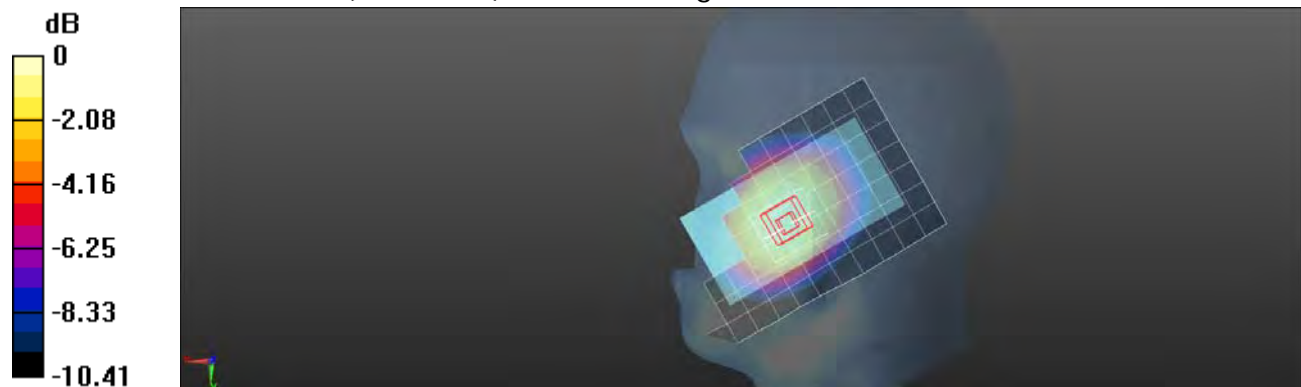
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.057 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.527 W/kg

**SAR(1 g) = 0.412 W/kg; SAR(10 g) = 0.302 W/kg**

Maximum value of SAR (measured) = 0.444 W/kg



0 dB = 0.444 W/kg = -3.53 dBW/kg

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Date: 2013/5/4

## RE Tilt\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.314 W/kg

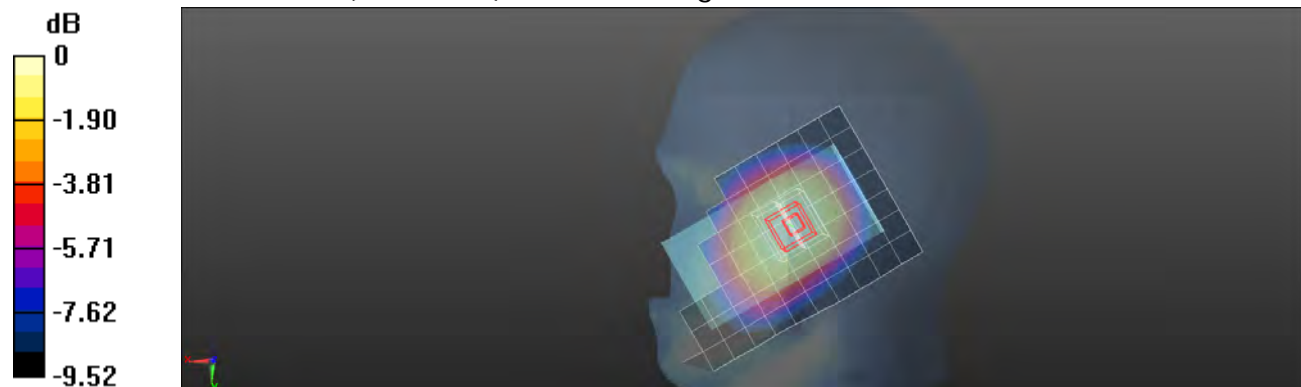
**Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.591 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.376 W/kg

**SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.217 W/kg**

Maximum value of SAR (measured) = 0.320 W/kg



0 dB = 0.320 W/kg = -4.95 dBW/kg

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Date: 2013/5/4

## LE Cheek\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.407 W/kg

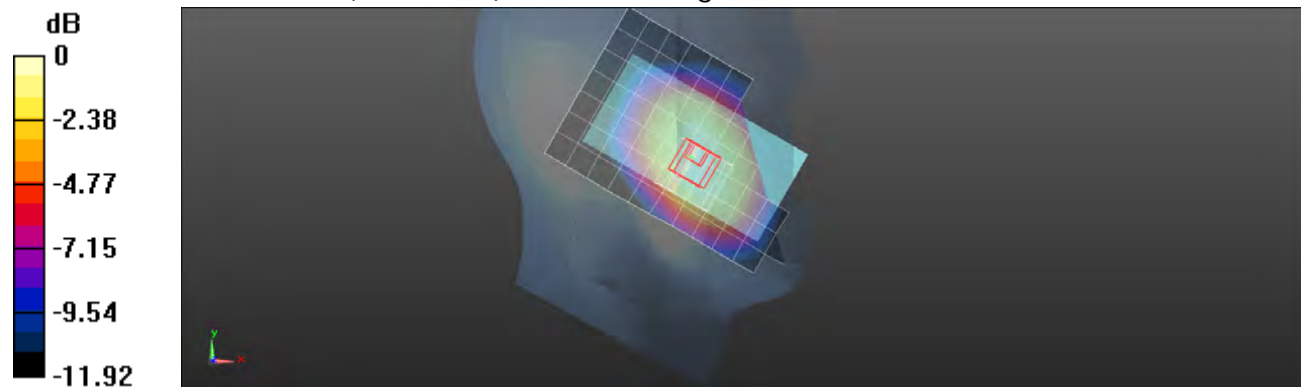
**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.304 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.534 W/kg

**SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.286 W/kg**

Maximum value of SAR (measured) = 0.445 W/kg



0 dB = 0.445 W/kg = -3.52 dBW/kg

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Date: 2013/5/4

## LE Tilt\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.349 W/kg

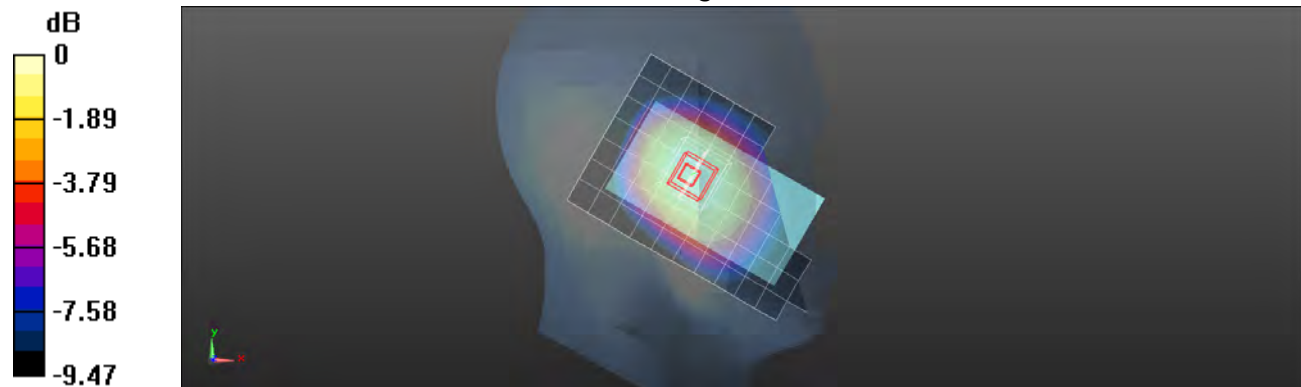
**Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.839 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.423 W/kg

**SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.242 W/kg**

Maximum value of SAR (measured) = 0.359 W/kg



0 dB = 0.359 W/kg = -4.45 dBW/kg

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Date: 2013/5/4

### Body-worn\_Speech mode\_Front side\_CH190

Communication System: GSM; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (8x12x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.400 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

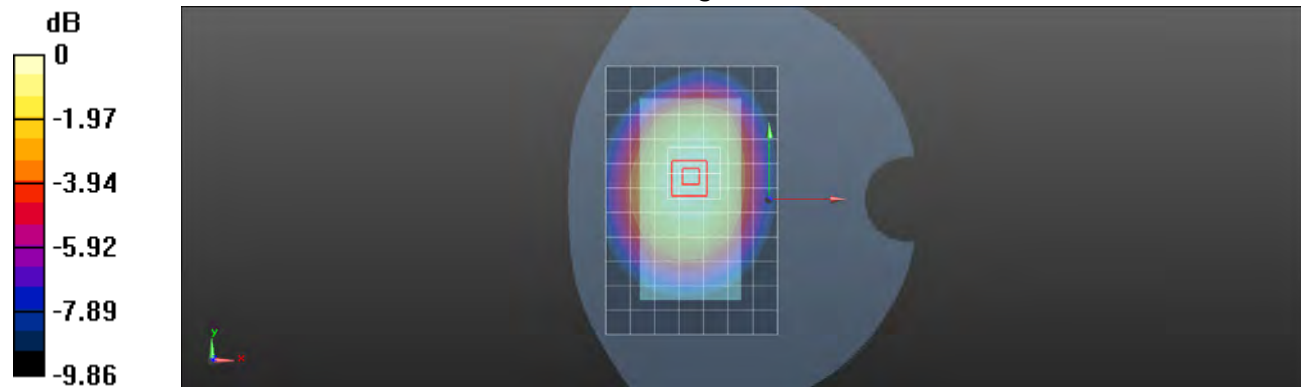
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 14.506 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.517 W/kg

**SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.293 W/kg**

Maximum value of SAR (measured) = 0.433 W/kg



0 dB = 0.433 W/kg = -3.64 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/4

### Body-worn\_Speech mode\_Back side\_CH190

Communication System: GSM; Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.478 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

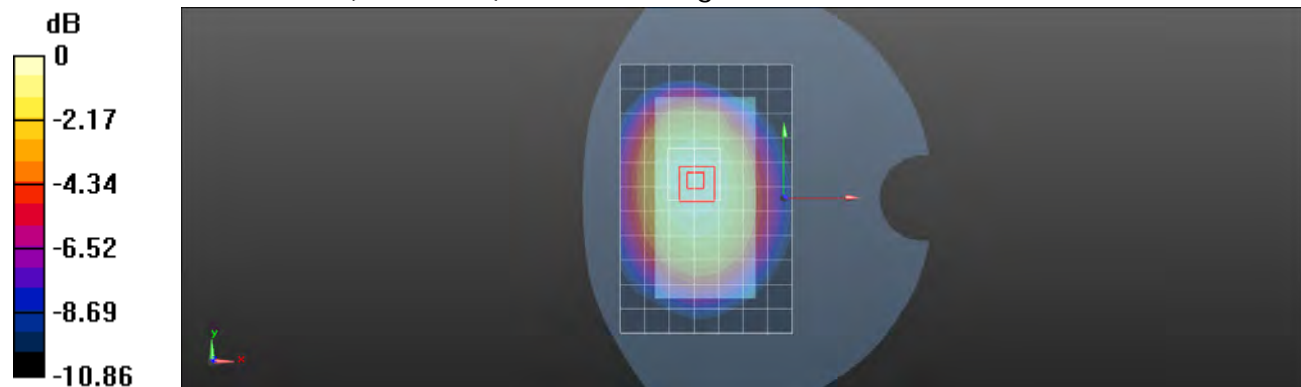
dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.272 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.575 W/kg

#### SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.479 W/kg



0 dB = 0.479 W/kg = -3.20 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/4

### Hotspot mode\_Front side\_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.573 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

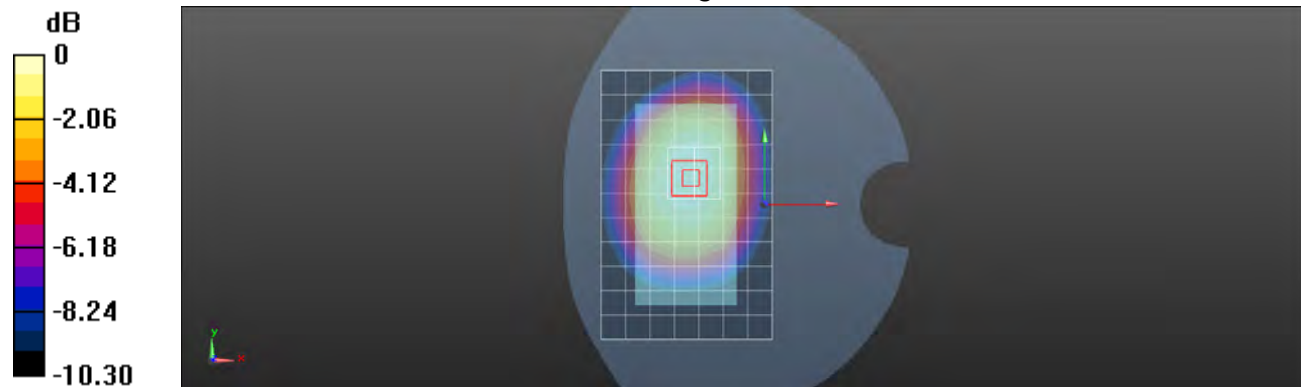
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 17.502 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.675 W/kg

#### SAR(1 g) = 0.528 W/kg; SAR(10 g) = 0.391 W/kg

Maximum value of SAR (measured) = 0.572 W/kg



0 dB = 0.572 W/kg = -2.43 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Back side\_CH128

Communication System: GPRS (Class 12); Frequency: 824.2 MHz

 Medium parameters used:  $f = 824.2$  MHz;  $\sigma = 0.974$  S/m;  $\epsilon_r = 56.444$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.831 W/kg

### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 16.533 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.944 W/kg

**SAR(1 g) = 0.709 W/kg; SAR(10 g) = 0.520 W/kg**

Maximum value of SAR (measured) = 0.834 W/kg

### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

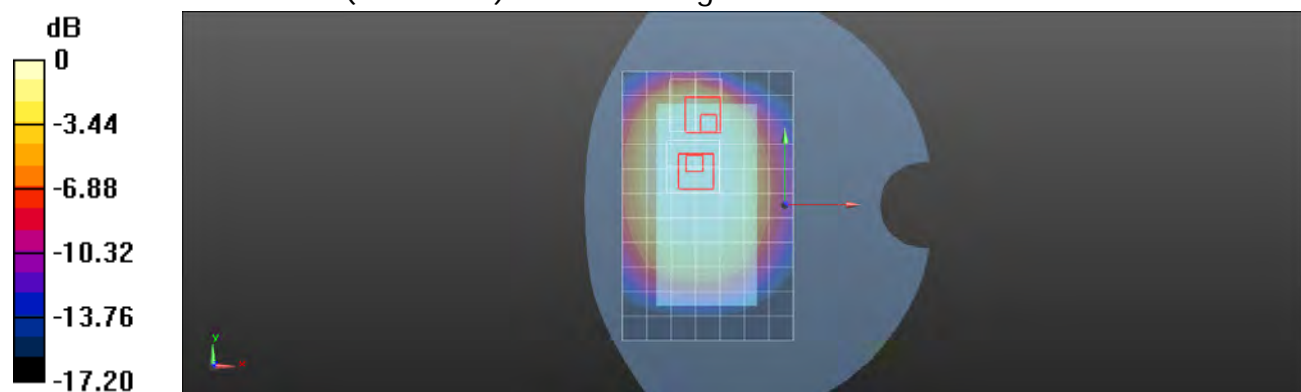
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 16.533 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.792 W/kg

**SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.311 W/kg**

Maximum value of SAR (measured) = 0.665 W/kg


 $0$  dB = 0.665 W/kg = -1.77 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Back side\_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (8x12x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.908 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 17.731 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.576 W/kg**

Maximum value of SAR (measured) = 0.922 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:

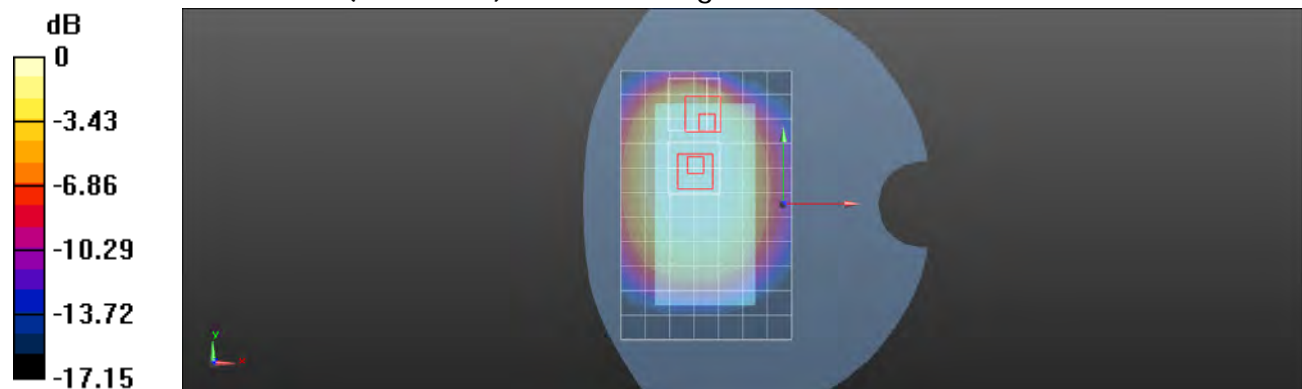
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 17.731 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.859 W/kg

**SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.343 W/kg**

Maximum value of SAR (measured) = 0.740 W/kg



0 dB = 0.740 W/kg = -1.31 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Back side\_CH251

Communication System: GPRS (Class 12); Frequency: 848.8 MHz

 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.999$  S/m;  $\epsilon_r = 56.275$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.03 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

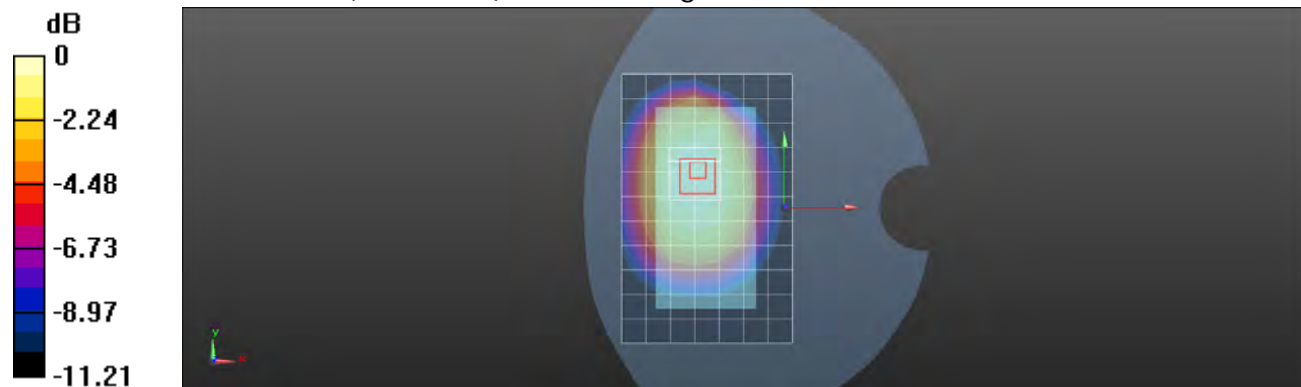
dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.511 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.16 W/kg

#### SAR(1 g) = 0.873 W/kg; SAR(10 g) = 0.640 W/kg

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/5/4

## Hotspot mode\_Back side\_CH251\_repeat SAR test at the highest SAR measurement

Communication System: GPRS (Class 12); Frequency: 848.8 MHz

 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.999$  S/m;  $\epsilon_r = 56.275$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (8x12x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.992 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.351 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.636 W/kg**

Maximum value of SAR (measured) = 1.02 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.351 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.868 W/kg

**SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.350 W/kg**

Maximum value of SAR (measured) = 0.775 W/kg



0 dB = 0.775 W/kg = -1.11 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Bottom side\_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0724 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.976 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.127 W/kg

#### SAR(1 g) = 0.063 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.0915 W/kg



0 dB = 0.0915 W/kg = -10.39 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Right side\_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.470 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

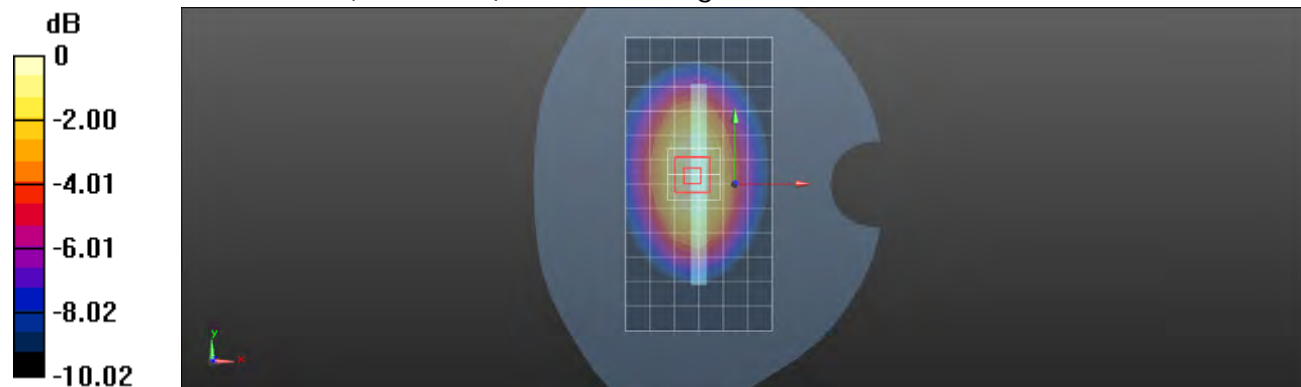
dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.577 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.606 W/kg

#### SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 0.485 W/kg



0 dB = 0.485 W/kg = -3.14 dBW/kg

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/4

### Hotspot mode\_Left side\_CH190

Communication System: GPRS (Class 12); Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.471 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

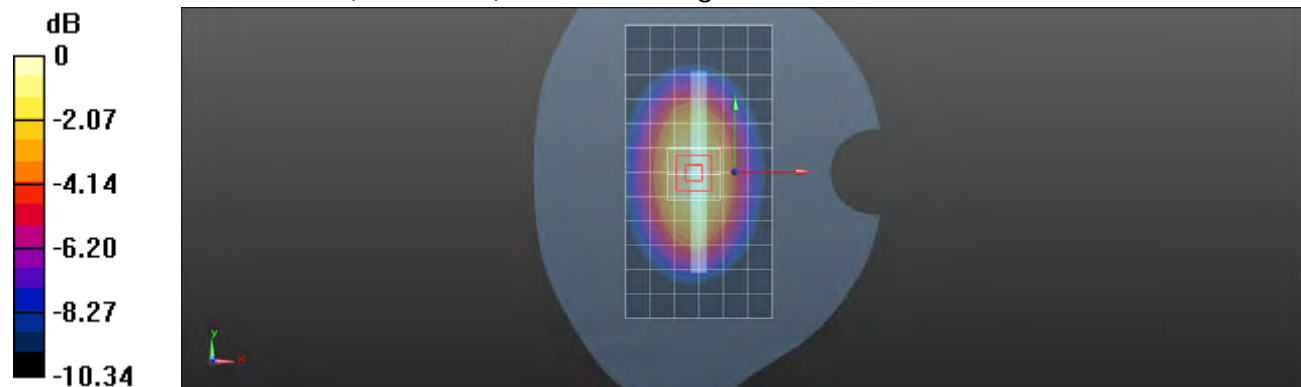
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 21.250 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.604 W/kg

**SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.289 W/kg**

Maximum value of SAR (measured) = 0.478 W/kg


 $0$  dB = 0.478 W/kg = -3.21 dBW/kg

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Date: 2013/5/8

## RE Cheek\_CH512

Communication System: GSM; Frequency: 1850.2 MHz

 Medium parameters used :  $f = 1850.2 \text{ MHz}$ ;  $\sigma = 1.334 \text{ S/m}$ ;  $\epsilon_r = 41.227$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.396 W/kg

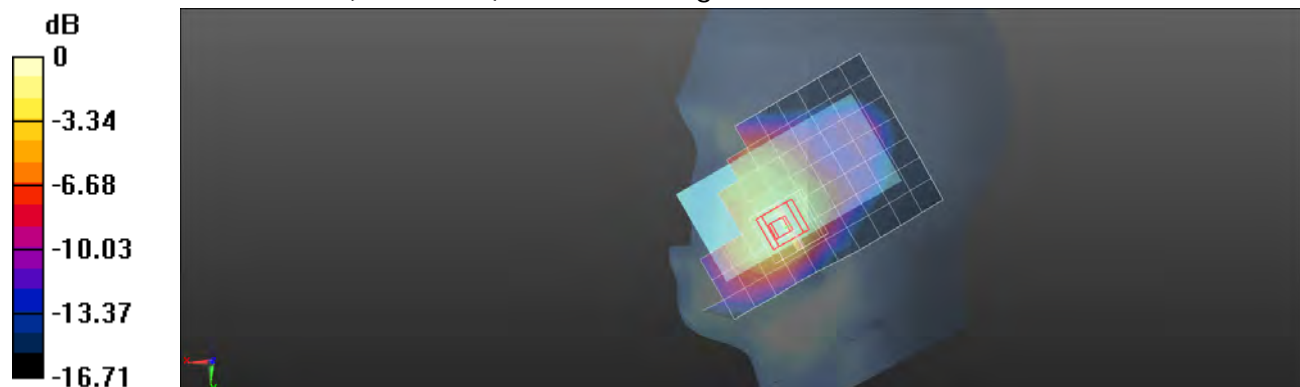
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 7.038 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.589 W/kg

**SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.250 W/kg**

Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.451 W/kg = -3.46 dBW/kg

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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## RE Cheek\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.162$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.458 W/kg

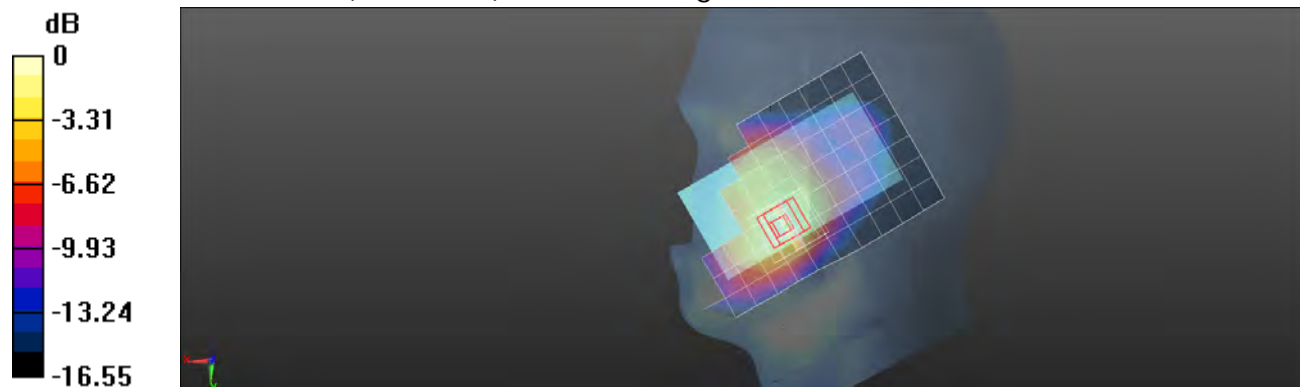
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.871 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.687 W/kg

**SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.287 W/kg**

Maximum value of SAR (measured) = 0.529 W/kg



0 dB = 0.529 W/kg = -2.77 dBW/kg

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## RE Cheek\_CH810

Communication System: GSM; Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.389$  S/m;  $\epsilon_r = 41.06$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.476 W/kg

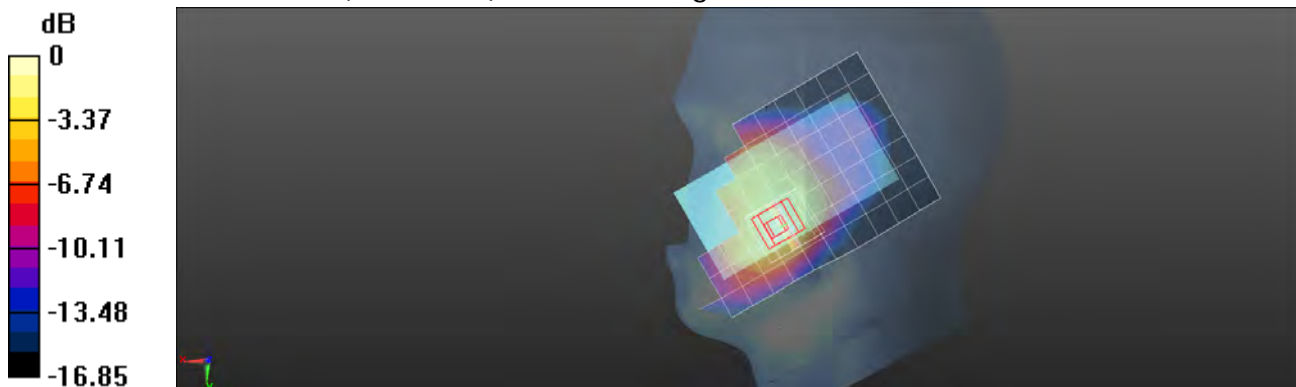
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.046 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.731 W/kg

**SAR(1 g) = 0.482 W/kg; SAR(10 g) = 0.296 W/kg**

Maximum value of SAR (measured) = 0.552 W/kg



0 dB = 0.552 W/kg = -2.58 dBW/kg

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Date: 2013/5/8

## RE Tilt\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.162$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.125 W/kg

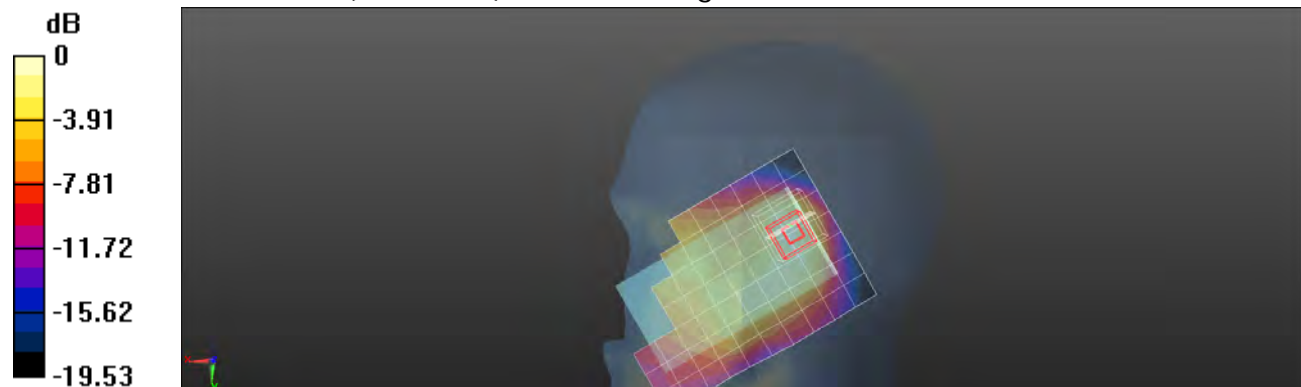
**Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.231 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.180 W/kg

**SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.067 W/kg**

Maximum value of SAR (measured) = 0.132 W/kg



0 dB = 0.132 W/kg = -8.79 dBW/kg

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Date: 2013/5/8

## LE Cheek\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.162$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.433 W/kg

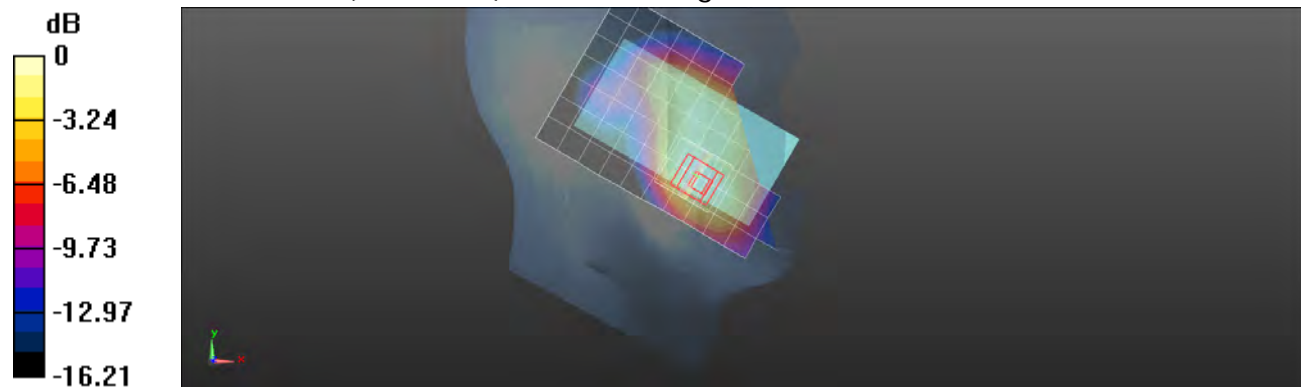
**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.795 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.623 W/kg

**SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.245 W/kg**

Maximum value of SAR (measured) = 0.432 W/kg



0 dB = 0.432 W/kg = -3.65 dBW/kg

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Date: 2013/5/8

## LE Tilt\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.162$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.135 W/kg

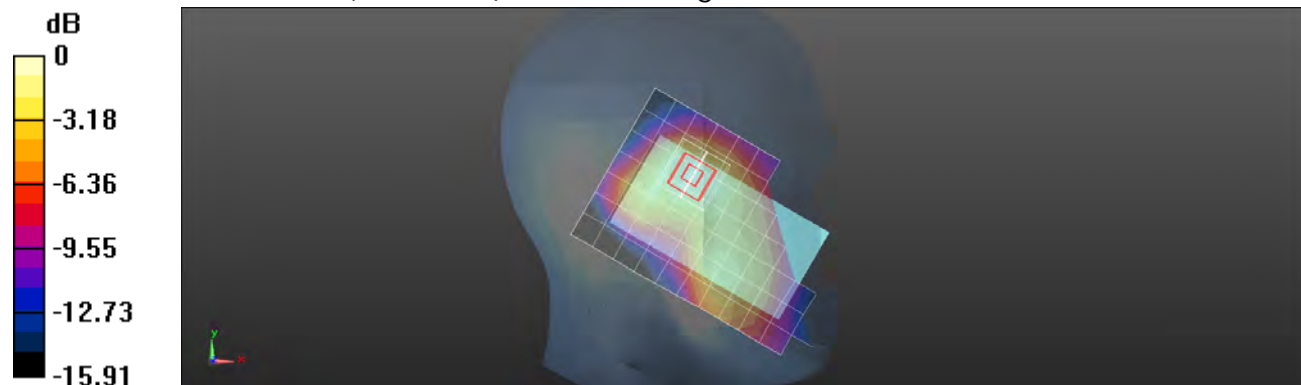
**Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.144 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.192 W/kg

**SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.080 W/kg**

Maximum value of SAR (measured) = 0.145 W/kg



0 dB = 0.145 W/kg = -8.39 dBW/kg

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Date: 2013/5/8

### Body-worn\_Speech mode\_Front side\_CH661

Communication System: GSM; Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.51 \text{ S/m}$ ;  $\epsilon_r = 51.425$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (8x12x1):** Measurement grid:

$dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.316 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.691 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.465 W/kg

**SAR(1 g) = 0.294 W/kg; SAR(10 g) = 0.184 W/kg**

Maximum value of SAR (measured) = 0.334 W/kg



0 dB = 0.334 W/kg = -4.76 dBW/kg

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Date: 2013/5/8

### Body-worn\_Speech mode\_Back side\_CH661

Communication System: GSM; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.51 \text{ S/m}$ ;  $\epsilon_r = 51.425$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 0.399 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

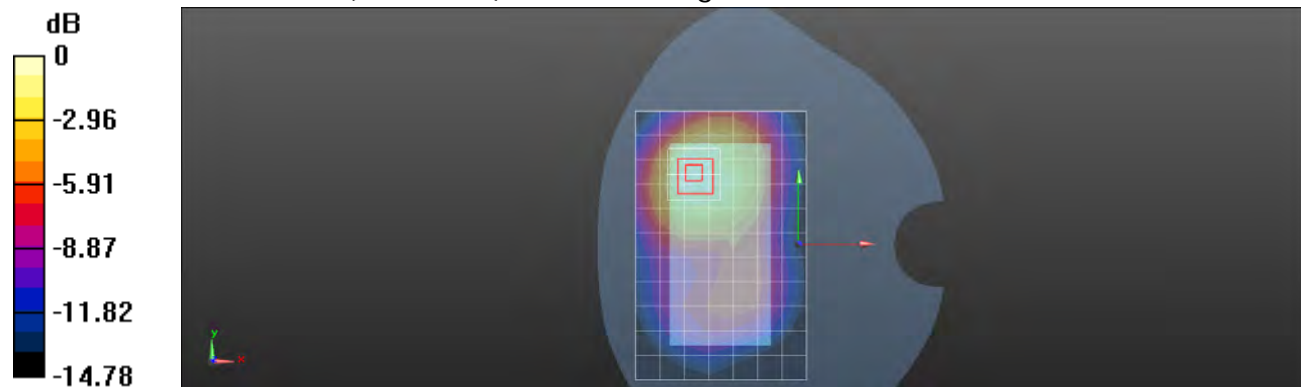
 $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 6.627 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.541 W/kg

#### SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.213 W/kg

Maximum value of SAR (measured) = 0.446 W/kg


 $0 \text{ dB} = 0.446 \text{ W/kg} = -3.51 \text{ dBW/kg}$ 

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Date: 2013/5/8

## Hotspot mode\_Front side\_CH512

Communication System: GPRS (Class 12); Frequency: 1850.2 MHz

Medium parameters used :  $f = 1850.2$  MHz;  $\sigma = 1.478$  S/m;  $\epsilon_r = 51.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.02 W/kg

### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

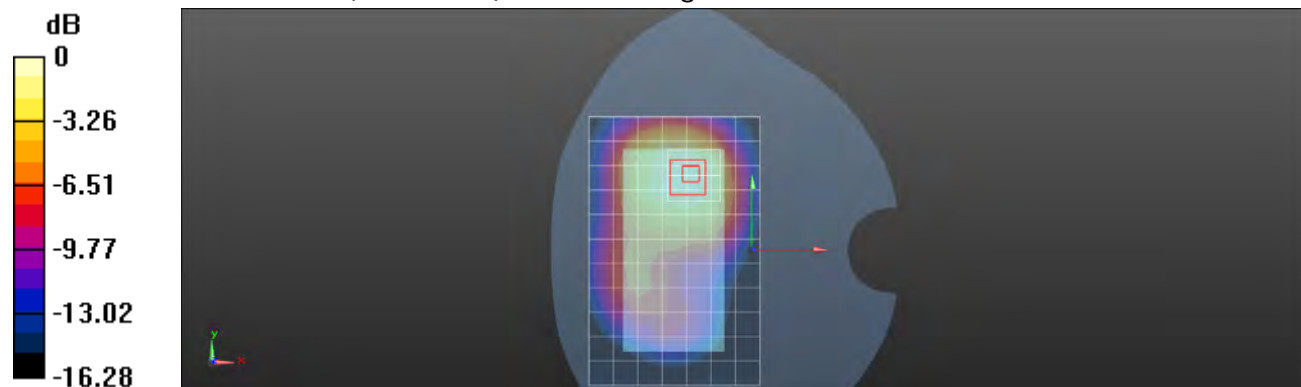
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.718 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.50 W/kg

### SAR(1 g) = 0.934 W/kg; SAR(10 g) = 0.580 W/kg

Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Front side\_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.08 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

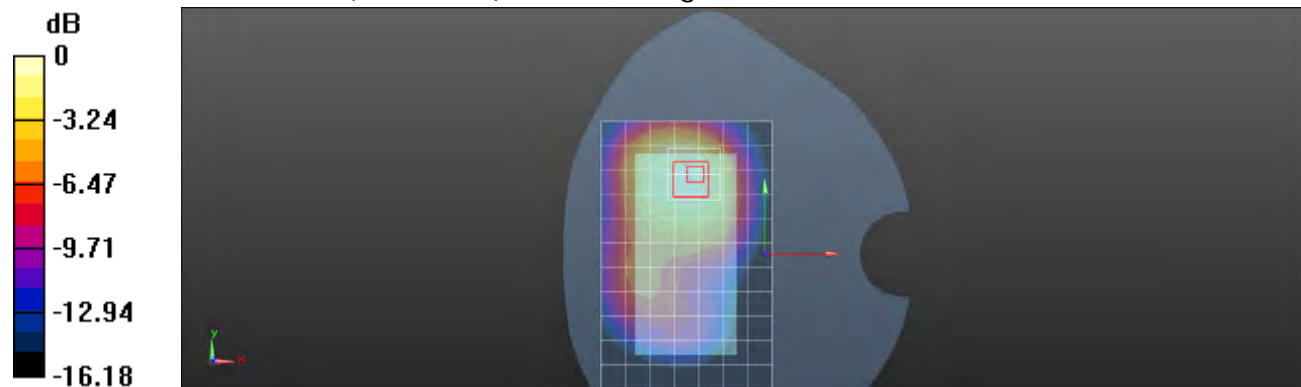
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.519 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.58 W/kg

#### SAR(1 g) = 0.977 W/kg; SAR(10 g) = 0.608 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Front side\_CH810

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 51.333$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.30 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.242 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.92 W/kg

**SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.715 W/kg**

Maximum value of SAR (measured) = 1.31 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1: Measurement grid:

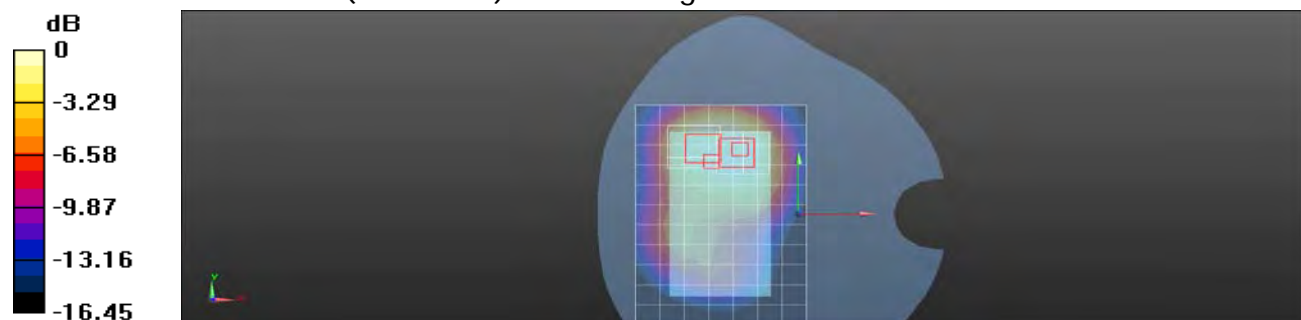
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.242 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.559 W/kg**

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2013/5/8

## Hotspot mode\_Front side\_CH810\_repeated with external Memory card inside

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 51.333$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (8x12x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.30 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.271 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.92 W/kg

**SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.713 W/kg**

Maximum value of SAR (measured) = 1.31 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:

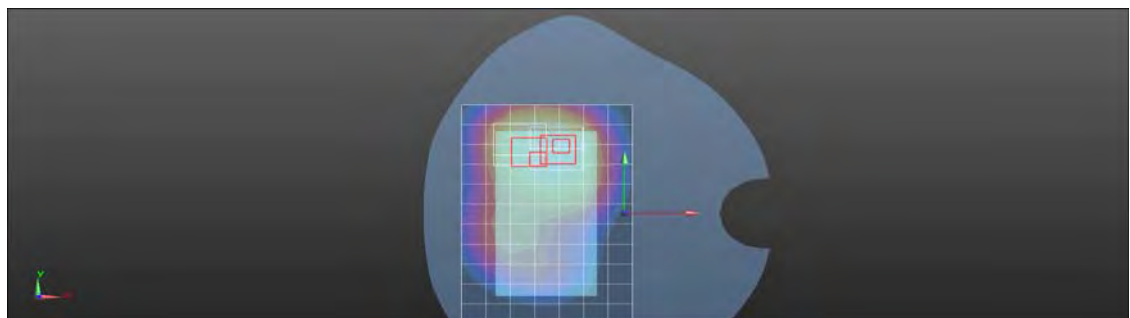
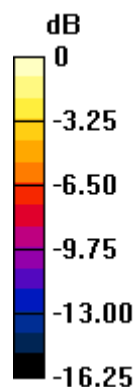
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.271 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.76 W/kg

**SAR(1 g) = 1 W/kg; SAR(10 g) = 0.583 W/kg**

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Front side\_CH810\_repeated with headset (MH410C)

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 51.333$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.32 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

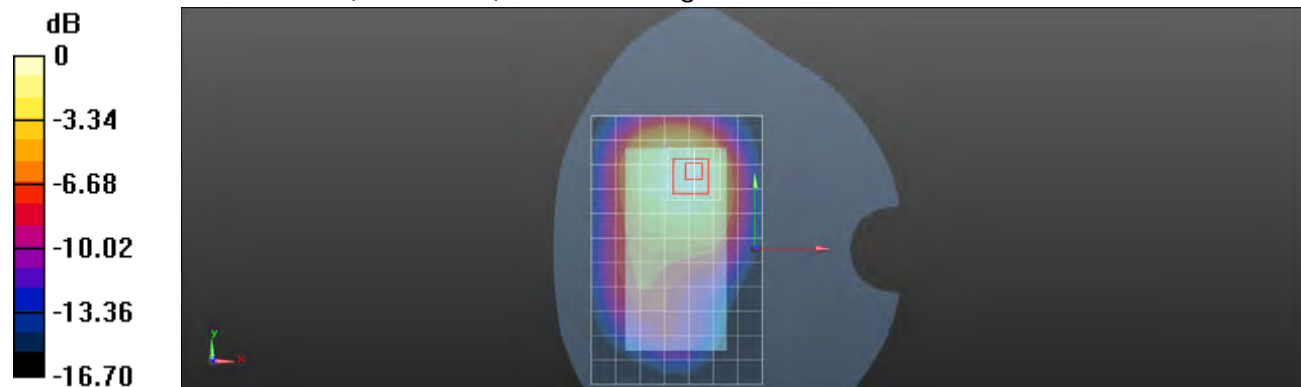
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.189 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.96 W/kg

#### SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.727 W/kg

Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

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Date: 2013/5/8

## Hotspot mode\_Front side\_CH810\_repeated with headset (MH410C)\_repeat SAR test at the highest SAR measurement

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 51.333$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (8x12x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.38 W/kg

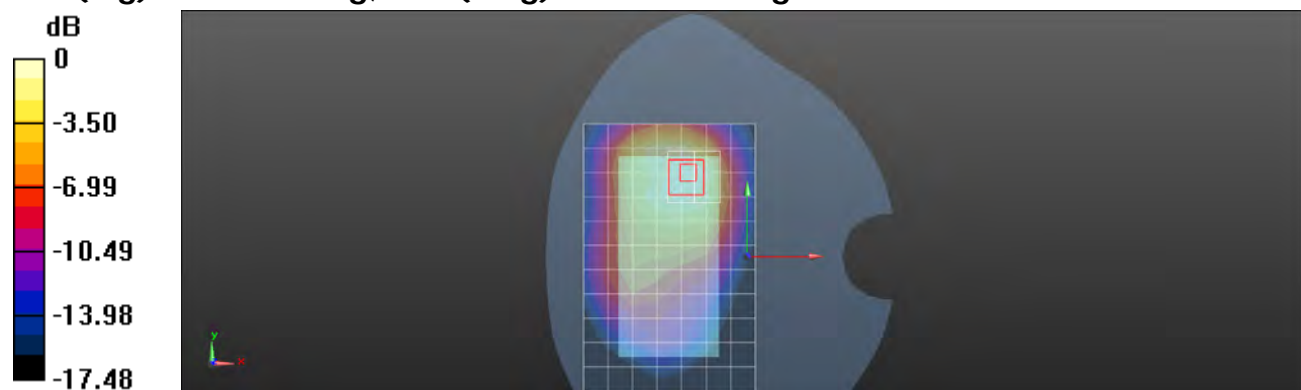
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.089 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.03 W/kg

**SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.735 W/kg**



0 dB = 1.38 W/kg = 1.40 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

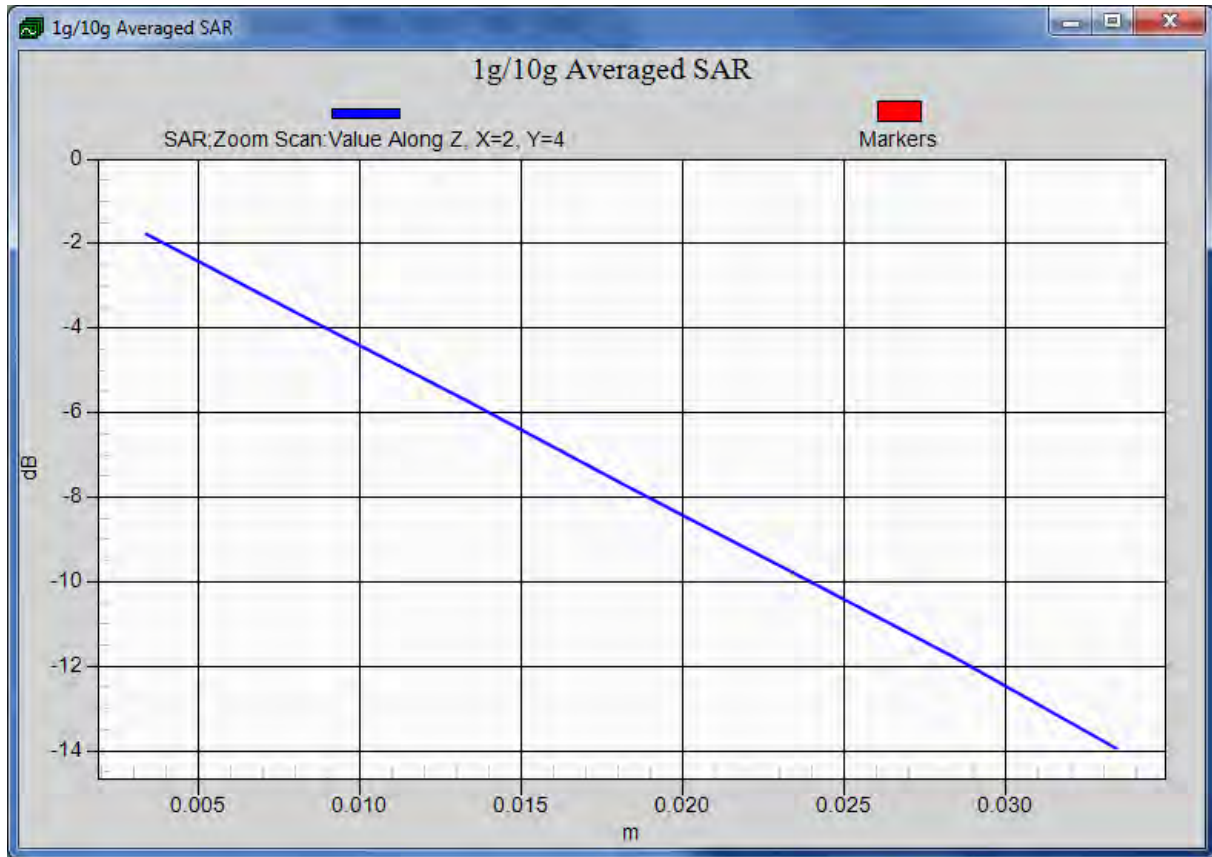
台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/8

### Hotspot mode\_Back side\_CH512

Communication System: GPRS (Class 12); Frequency: 1850.2 MHz

 Medium parameters used :  $f = 1850.2$  MHz;  $\sigma = 1.478$  S/m;  $\epsilon_r = 51.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.05 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

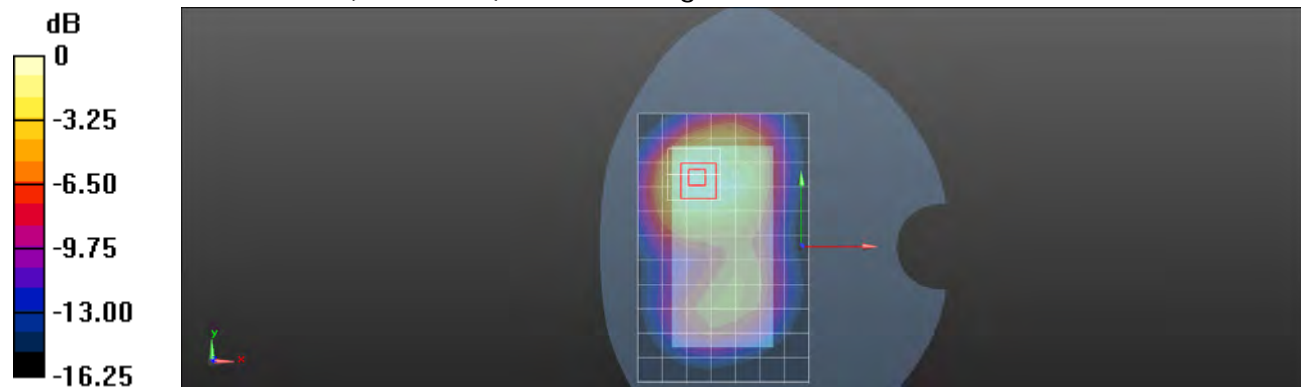
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.723 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.55 W/kg

#### SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.603 W/kg

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Back side\_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.14 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

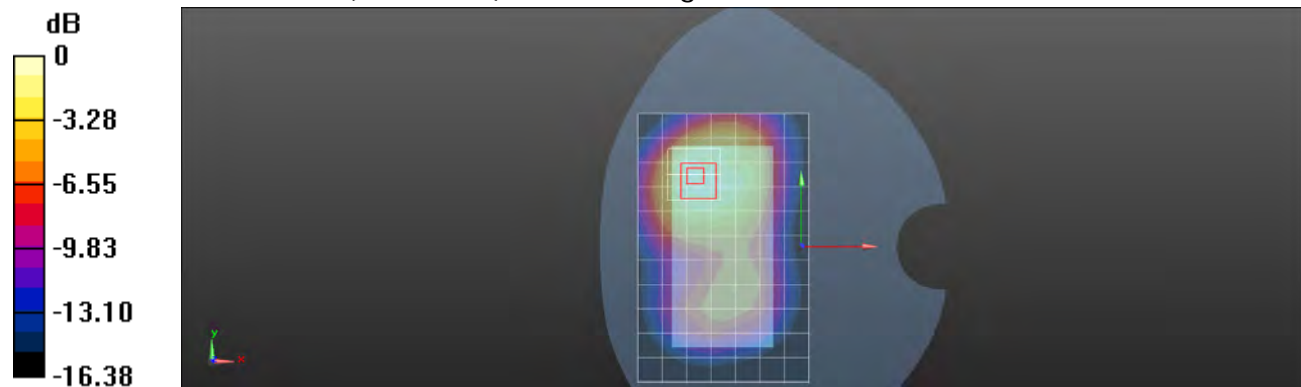
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.761 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.79 W/kg

#### SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.690 W/kg

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Back side\_CH810

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 51.333$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.22 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

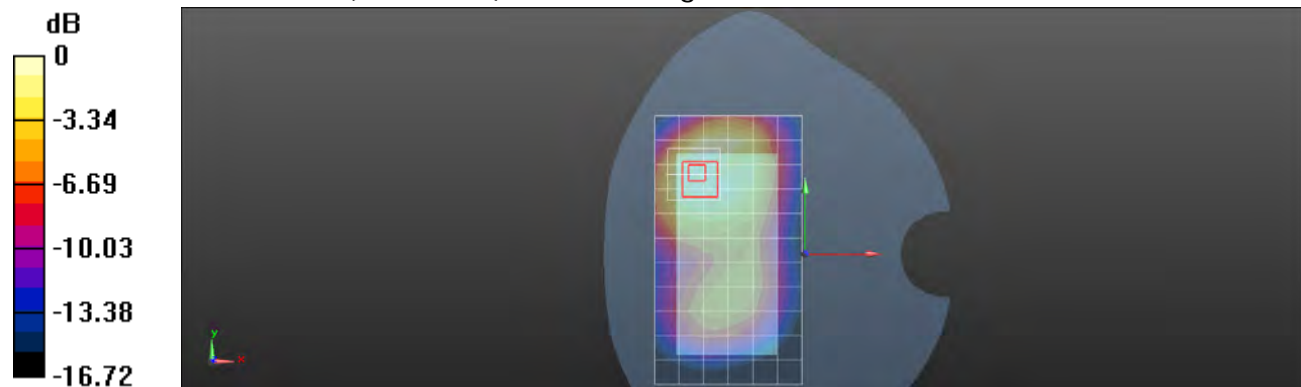
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.776 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.79 W/kg

#### SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.680 W/kg

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Bottom side\_CH512

Communication System: GPRS (Class 12); Frequency: 1850.2 MHz

 Medium parameters used :  $f = 1850.2$  MHz;  $\sigma = 1.478$  S/m;  $\epsilon_r = 51.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.992 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

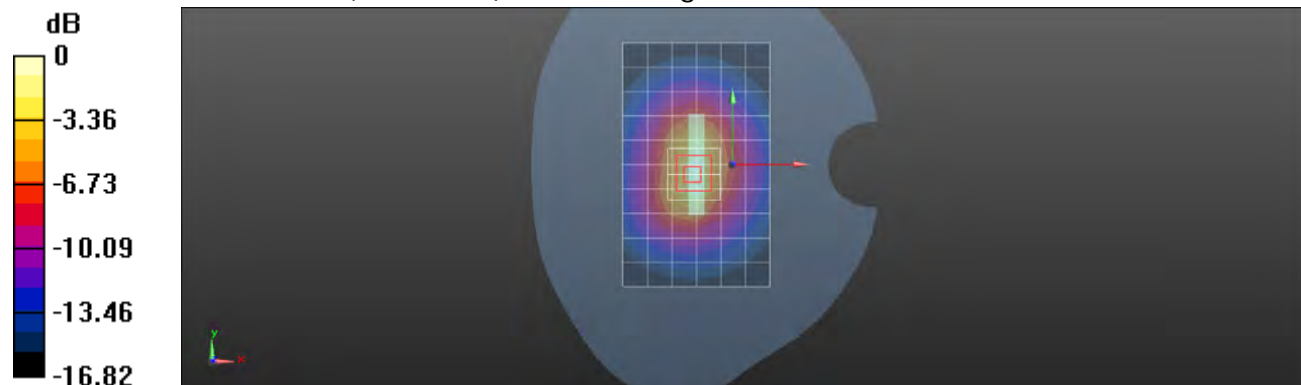
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 23.313 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.52 W/kg

#### SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.490 W/kg

Maximum value of SAR (measured) = 1.11 W/kg


 $0$  dB = 1.11 W/kg = 0.45 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Bottom side\_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.11 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

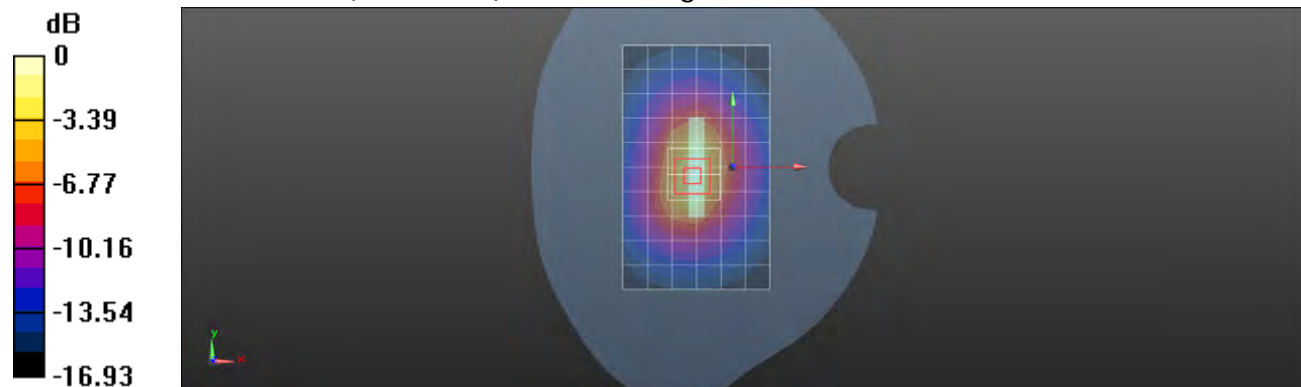
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 23.710 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.69 W/kg

#### SAR(1 g) = 1 W/kg; SAR(10 g) = 0.536 W/kg

Maximum value of SAR (measured) = 1.22 W/kg



0 dB = 1.22 W/kg = 0.86 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Bottom side\_CH810

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.542$  S/m;  $\epsilon_r = 51.333$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.25 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

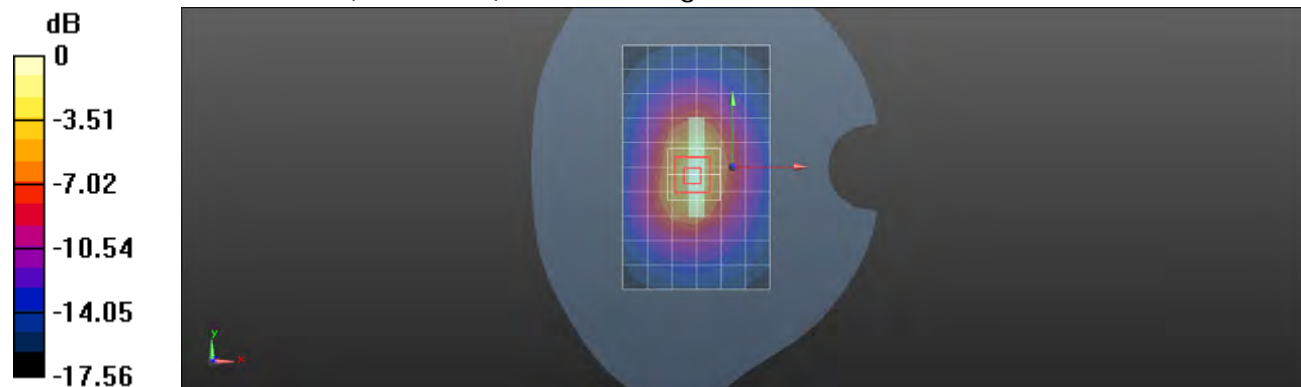
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 25.125 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.93 W/kg

#### SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.600 W/kg

Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Right side\_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.312 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

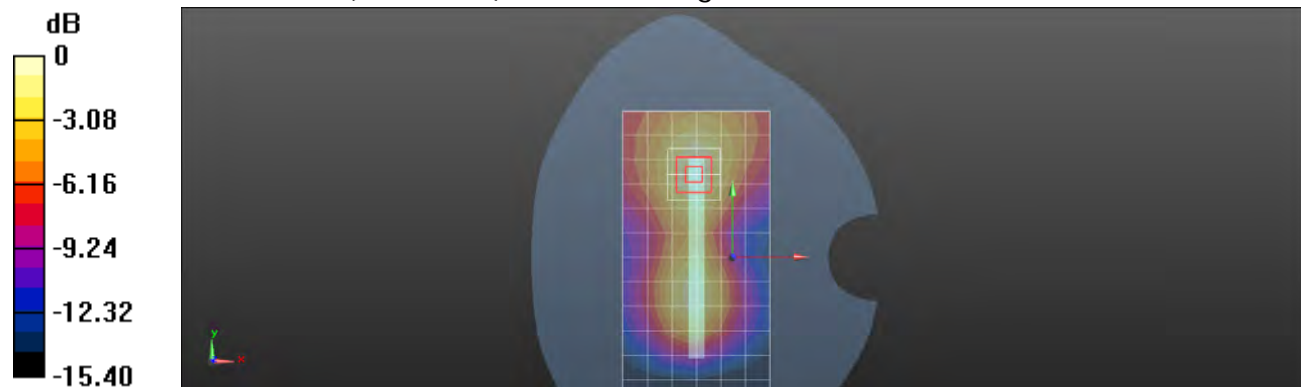
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.596 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.471 W/kg

#### SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.176 W/kg

Maximum value of SAR (measured) = 0.339 W/kg



0 dB = 0.339 W/kg = -4.70 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Left side\_CH661

Communication System: GPRS (Class 12); Frequency: 1880 MHz

Medium parameters used:  $f = 1880 \text{ MHz}$ ;  $\sigma = 1.51 \text{ S/m}$ ;  $\epsilon_r = 51.425$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

$dx=15\text{mm}$ ,  $dy=15\text{mm}$

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

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

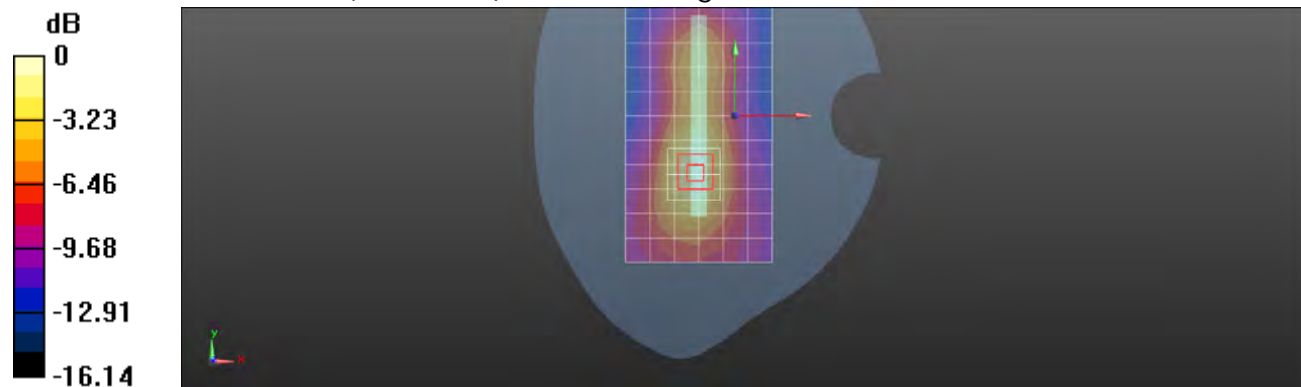
$dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 10.244 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.488 W/kg

#### SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.173 W/kg

Maximum value of SAR (measured) = 0.351 W/kg



0 dB = 0.351 W/kg = -4.55 dBW/kg

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Date: 2013/5/8

## RE Cheek\_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

Medium parameters used :  $f = 1852.4$  MHz;  $\sigma = 1.336$  S/m;  $\epsilon_r = 41.222$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.799 W/kg

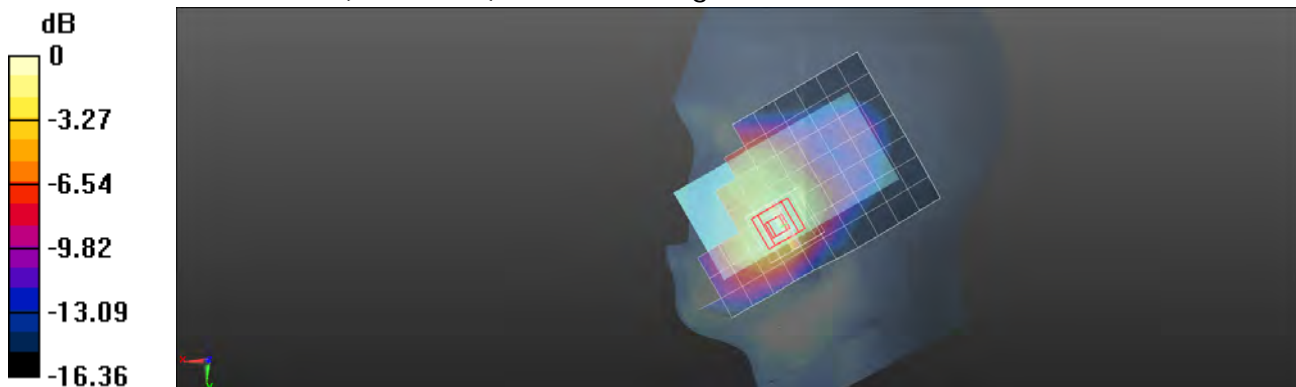
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.924 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.514 W/kg**

Maximum value of SAR (measured) = 0.927 W/kg



0 dB = 0.927 W/kg = -0.33 dBW/kg

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Date: 2013/5/8

## RE Cheek\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.162$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.836 W/kg

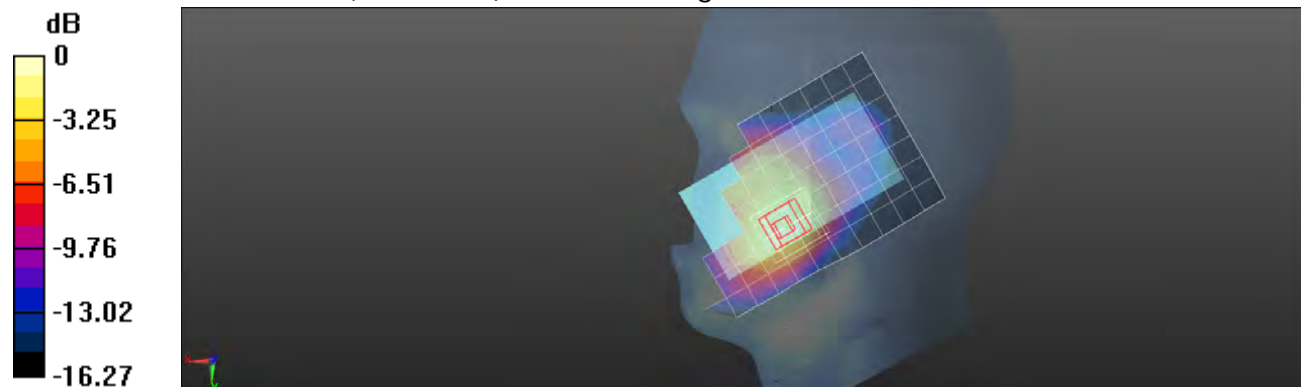
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.506 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.532 W/kg**

Maximum value of SAR (measured) = 0.989 W/kg



0 dB = 0.989 W/kg = -0.05 dBW/kg

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Date: 2013/5/8

## RE Cheek\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.387$  S/m;  $\epsilon_r = 41.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.971 W/kg

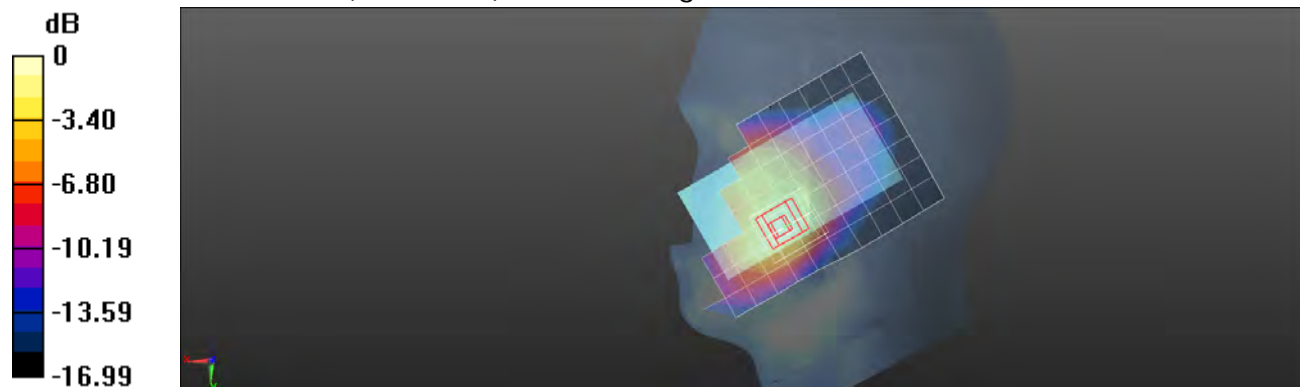
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.043 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.991 W/kg; SAR(10 g) = 0.609 W/kg**

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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Date: 2013/5/8

## RE Cheek\_CH9538\_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.387$  S/m;  $\epsilon_r = 41.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.03 W/kg

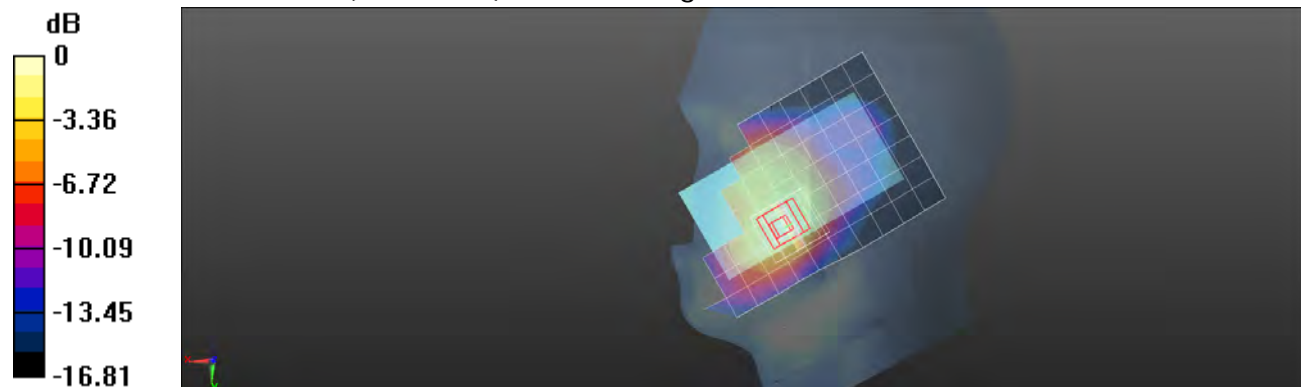
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.661 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.648 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg



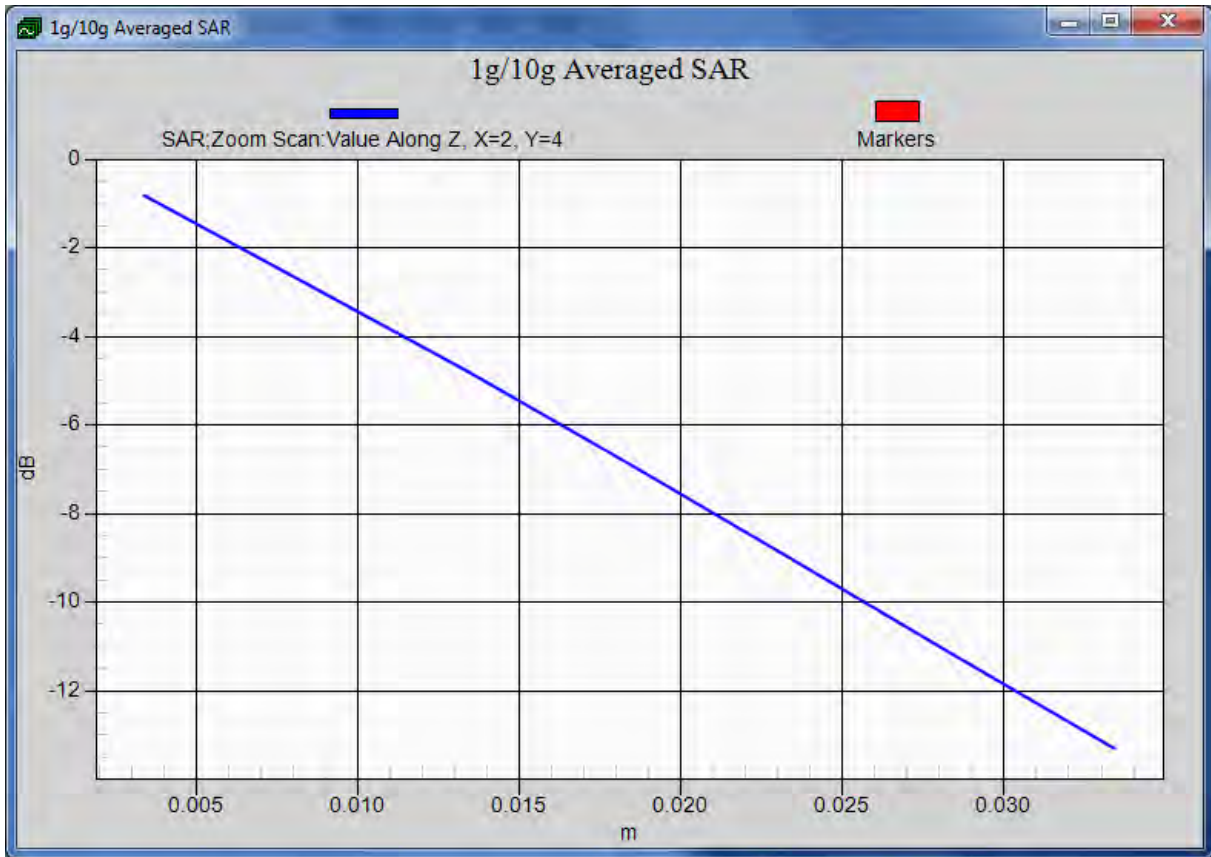
0 dB = 1.20 W/kg = 0.79 dBW/kg

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Date: 2013/5/8

## RE Cheek\_CH9538\_repeated with external Memory card inside

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.387$  S/m;  $\epsilon_r = 41.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.944 W/kg

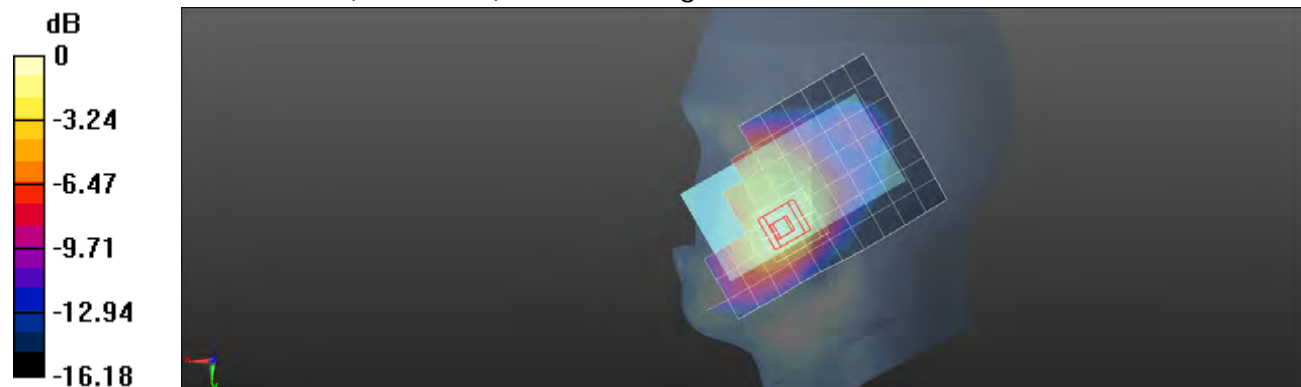
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.395 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.49 W/kg

**SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.604 W/kg**

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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## RE Tilt\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.162$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.224 W/kg

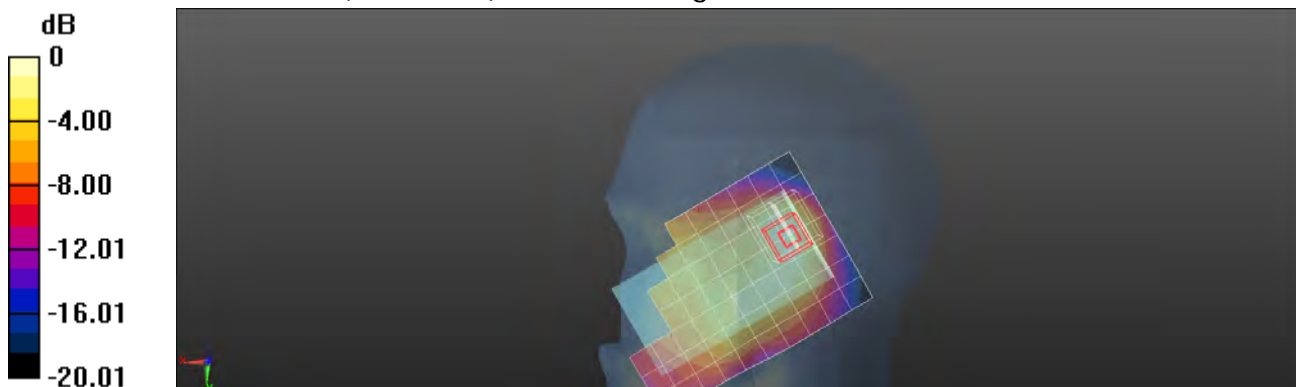
**Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.698 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.328 W/kg

**SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.120 W/kg**

Maximum value of SAR (measured) = 0.237 W/kg



0 dB = 0.237 W/kg = -6.25 dBW/kg

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Date: 2013/5/8

## LE Cheek\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.162$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.796 W/kg

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

Reference Value = 9.300 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.442 W/kg**

Maximum value of SAR (measured) = 0.825 W/kg

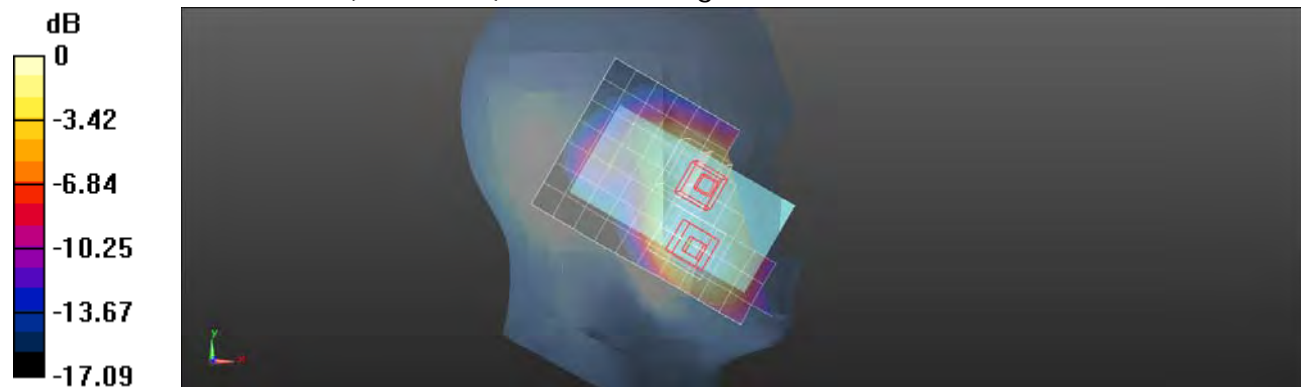
**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.300 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.717 W/kg

**SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.333 W/kg**

Maximum value of SAR (measured) = 0.548 W/kg



0 dB = 0.548 W/kg = -2.61 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Date: 2013/5/8

## LE Tilt\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.361$  S/m;  $\epsilon_r = 41.162$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.246 W/kg

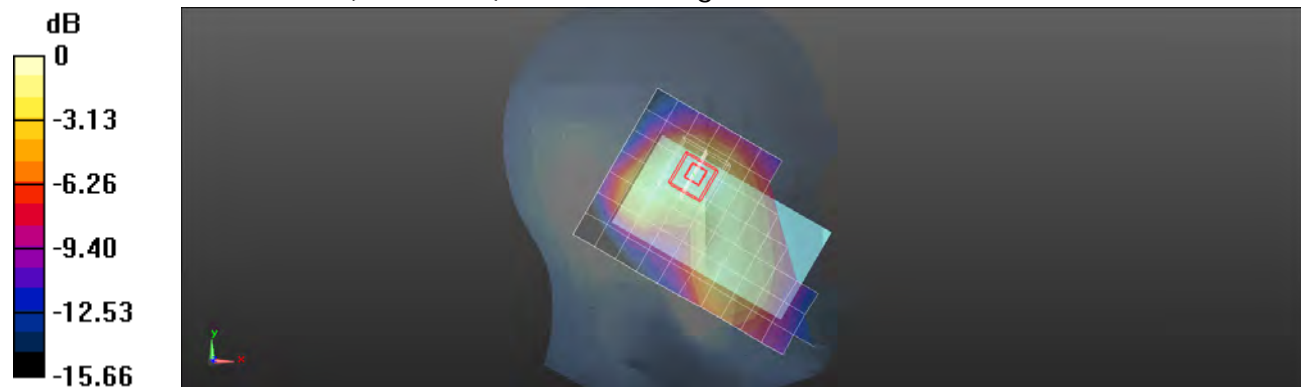
**Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.575 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.346 W/kg

**SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.144 W/kg**

Maximum value of SAR (measured) = 0.260 W/kg



0 dB = 0.260 W/kg = -5.85 dBW/kg

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Date: 2013/5/8

### Body-worn\_Speech mode\_Front side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.660 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

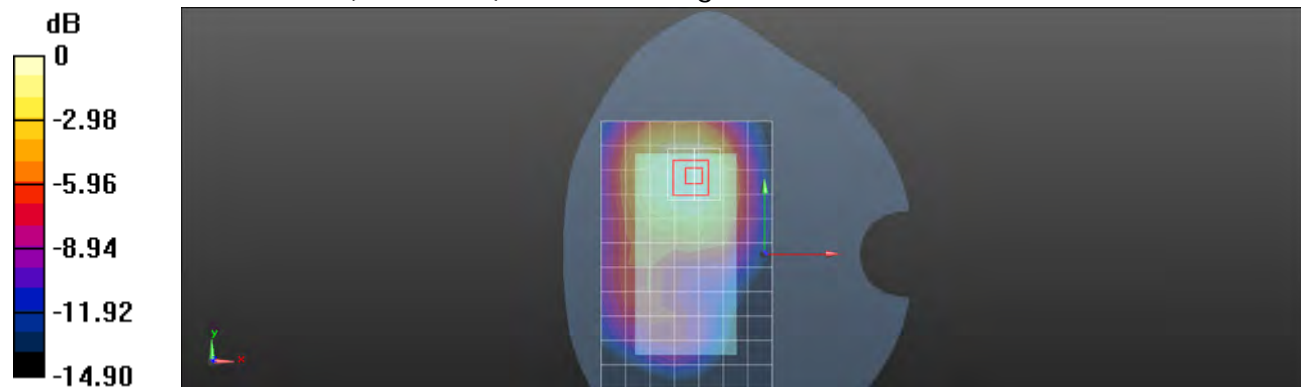
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.355 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.926 W/kg

#### SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.367 W/kg

Maximum value of SAR (measured) = 0.661 W/kg


 $0$  dB = 0.661 W/kg = -1.80 dBW/kg

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Date: 2013/5/8

### Body-worn\_Speech mode\_Back side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.545 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

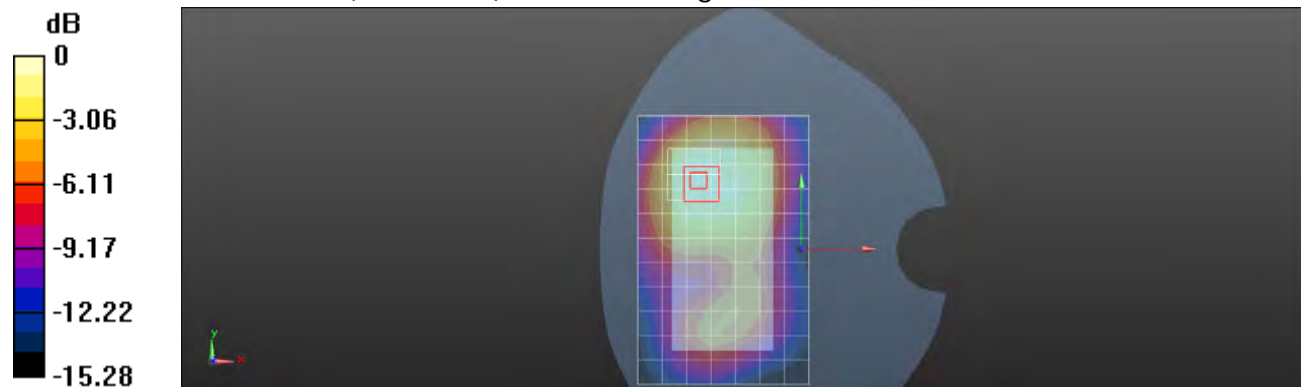
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.345 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.795 W/kg

#### SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.320 W/kg

Maximum value of SAR (measured) = 0.570 W/kg


 $0$  dB = 0.570 W/kg = -2.44 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Front side\_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

 Medium parameters used :  $f = 1852.4$  MHz;  $\sigma = 1.481$  S/m;  $\epsilon_r = 51.51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.992 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

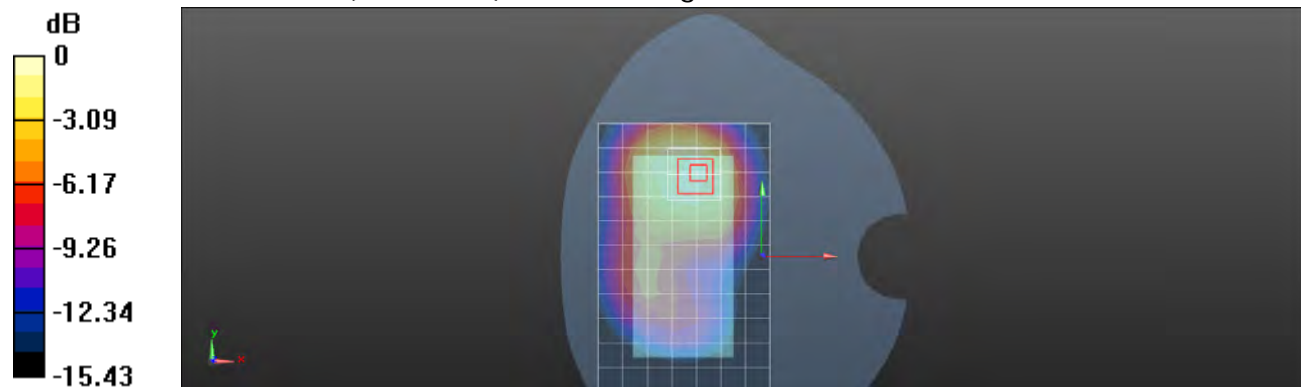
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.125 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.47 W/kg

#### SAR(1 g) = 0.902 W/kg; SAR(10 g) = 0.555 W/kg

Maximum value of SAR (measured) = 1.02 W/kg


 $0 \text{ dB} = 1.02 \text{ W/kg} = 0.09 \text{ dBW/kg}$ 

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Date: 2013/5/8

### Hotspot mode\_Front side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.04 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.451 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.55 W/kg

#### SAR(1 g) = 0.944 W/kg; SAR(10 g) = 0.577 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Front side\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 51.337$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.09 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.610 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.60 W/kg

#### SAR(1 g) = 0.968 W/kg; SAR(10 g) = 0.588 W/kg

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Back side\_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

 Medium parameters used :  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.481 \text{ S/m}$ ;  $\epsilon_r = 51.51$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 0.996 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

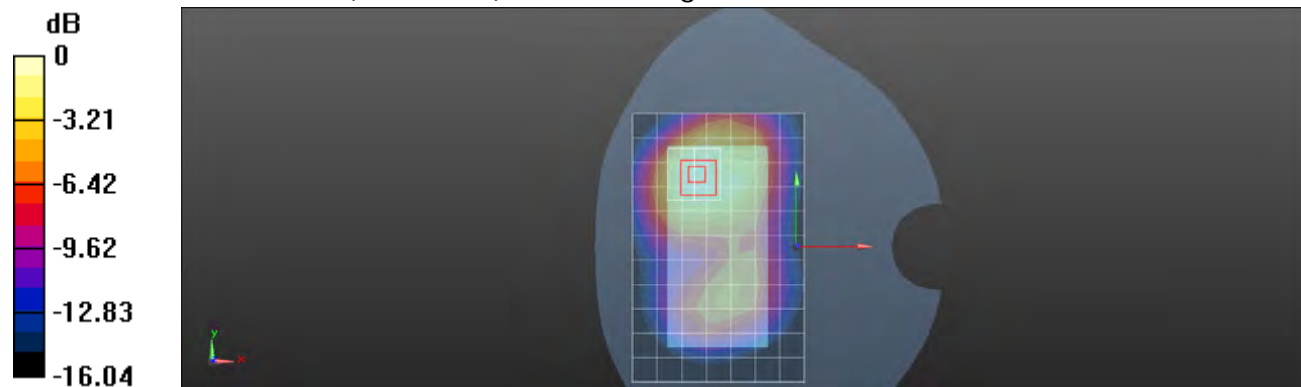
 $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 10.534 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.55 W/kg

#### SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.581 W/kg

Maximum value of SAR (measured) = 1.09 W/kg


 $0 \text{ dB} = 1.09 \text{ W/kg} = 0.37 \text{ dBW/kg}$ 

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Date: 2013/5/8

### Hotspot mode\_Back side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.04 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

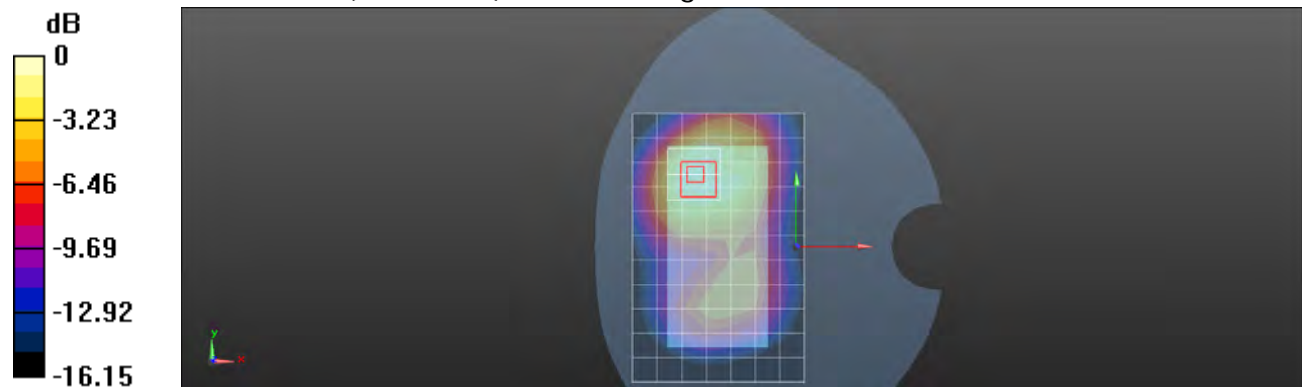
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.459 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.63 W/kg

#### SAR(1 g) = 1 W/kg; SAR(10 g) = 0.611 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Back side\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 51.337$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.07 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

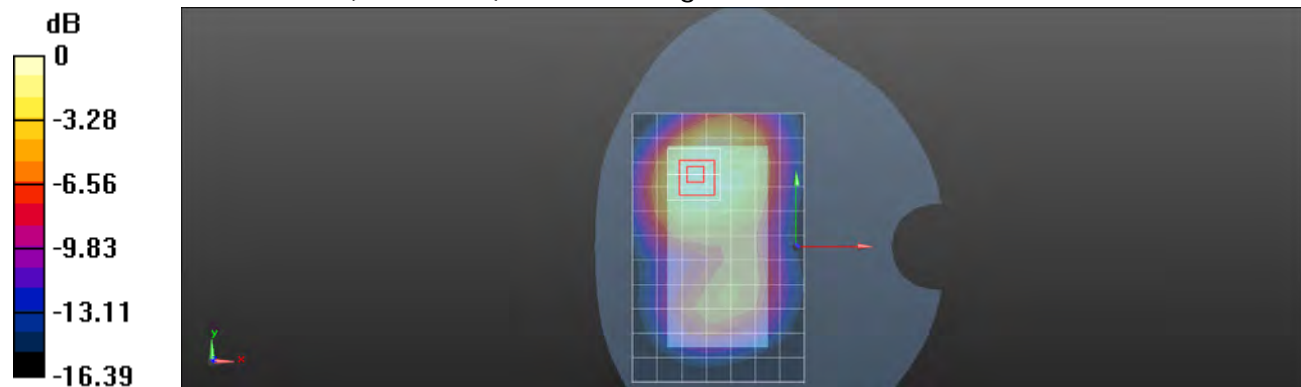
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.589 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.68 W/kg

#### SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.621 W/kg

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Bottom side\_CH9262

Communication System: WCDMA; Frequency: 1852.4 MHz

 Medium parameters used :  $f = 1852.4 \text{ MHz}$ ;  $\sigma = 1.481 \text{ S/m}$ ;  $\epsilon_r = 51.51$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (6x9x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.924 W/kg

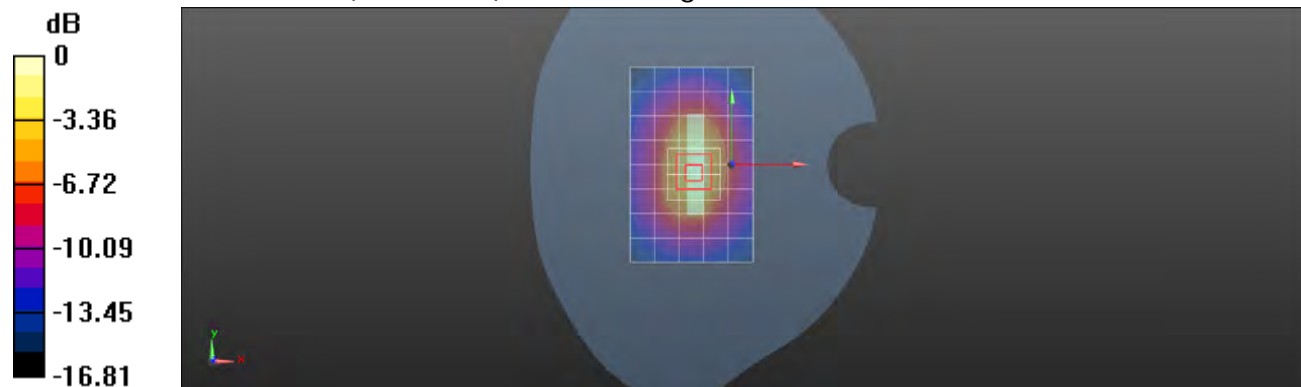
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 25.515 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.53 W/kg

**SAR(1 g) = 0.900 W/kg; SAR(10 g) = 0.485 W/kg**

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/8

### Hotspot mode\_Bottom side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.974 W/kg

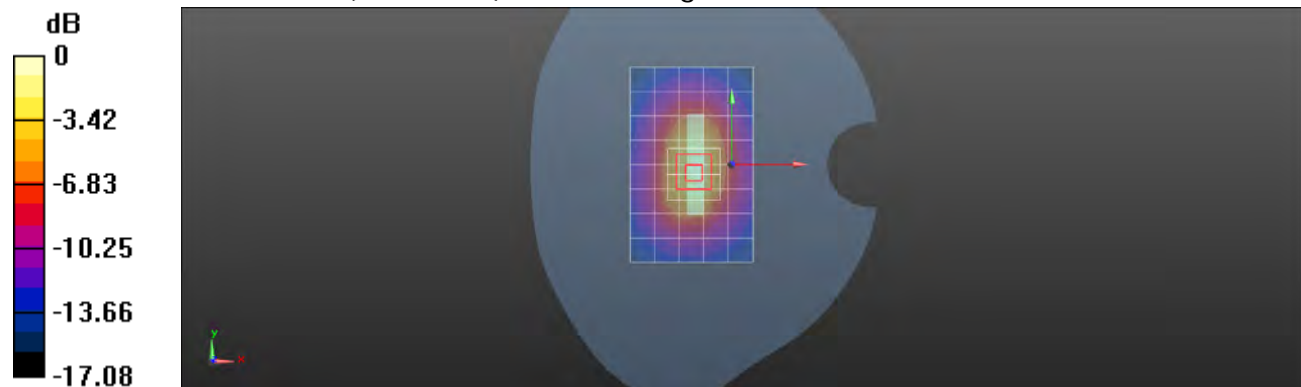
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 25.787 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 0.967 W/kg; SAR(10 g) = 0.515 W/kg**

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/8

### Hotspot mode\_Bottom side\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 51.337$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.05 W/kg

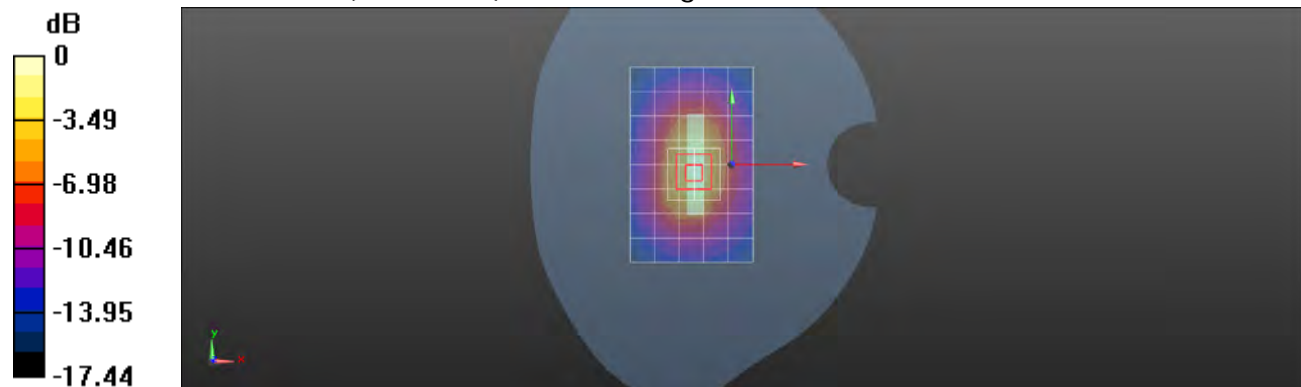
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.876 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.85 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.562 W/kg**

Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

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Date: 2013/5/8

## Hotspot mode\_Bottom side\_CH9538\_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 51.337$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

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

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

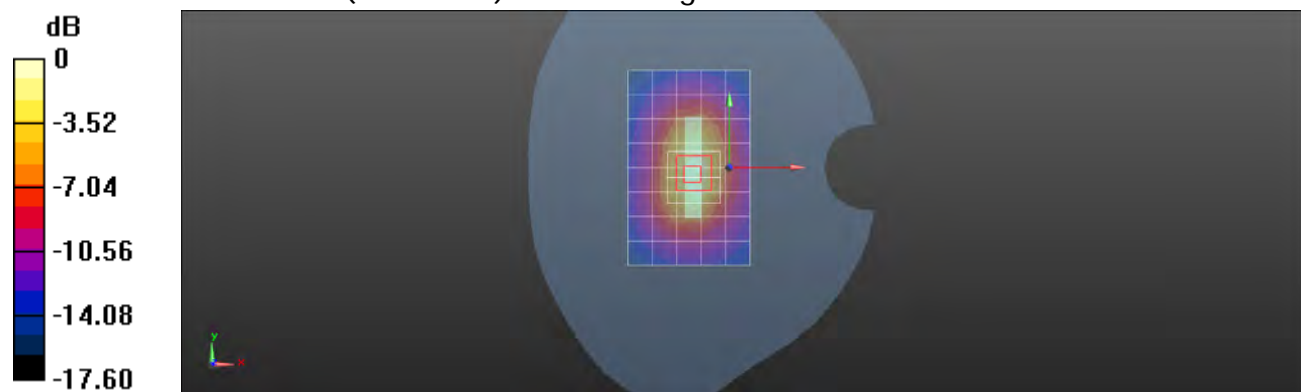
dx=8mm, dy=8mm, dz=5mm

Reference Value = 29.367 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.85 W/kg

**SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.565 W/kg**

Maximum value of SAR (measured) = 1.51 W/kg



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Date: 2013/5/8

### Hotspot mode\_Right side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.320 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

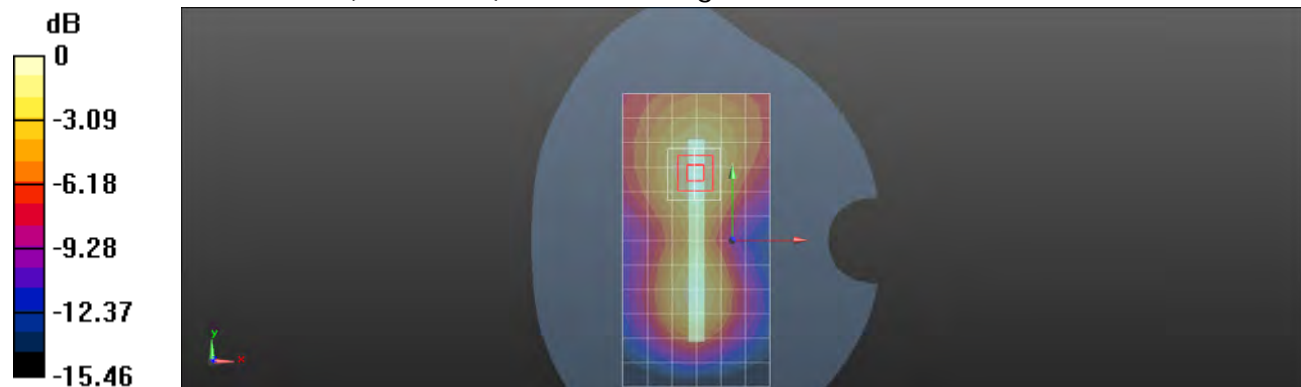
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.468 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.457 W/kg

#### SAR(1 g) = 0.284 W/kg; SAR(10 g) = 0.171 W/kg

Maximum value of SAR (measured) = 0.327 W/kg


 $0$  dB = 0.327 W/kg = -4.85 dBW/kg

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Date: 2013/5/8

### Hotspot mode\_Left side\_CH9400

Communication System: WCDMA; Frequency: 1880 MHz

 Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.51$  S/m;  $\epsilon_r = 51.425$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.292 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

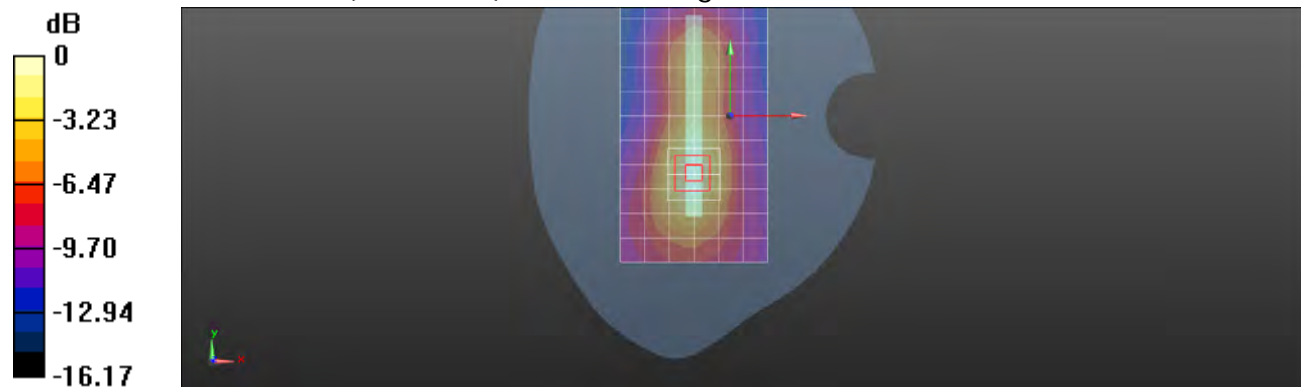
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.489 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.421 W/kg

#### SAR(1 g) = 0.256 W/kg; SAR(10 g) = 0.149 W/kg

Maximum value of SAR (measured) = 0.299 W/kg


 $0$  dB = 0.299 W/kg = -5.24 dBW/kg

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Date: 2013/5/6

## RE Cheek\_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

Medium parameters used :  $f = 1712.4$  MHz;  $\sigma = 1.333$  S/m;  $\epsilon_r = 41.825$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.854 W/kg

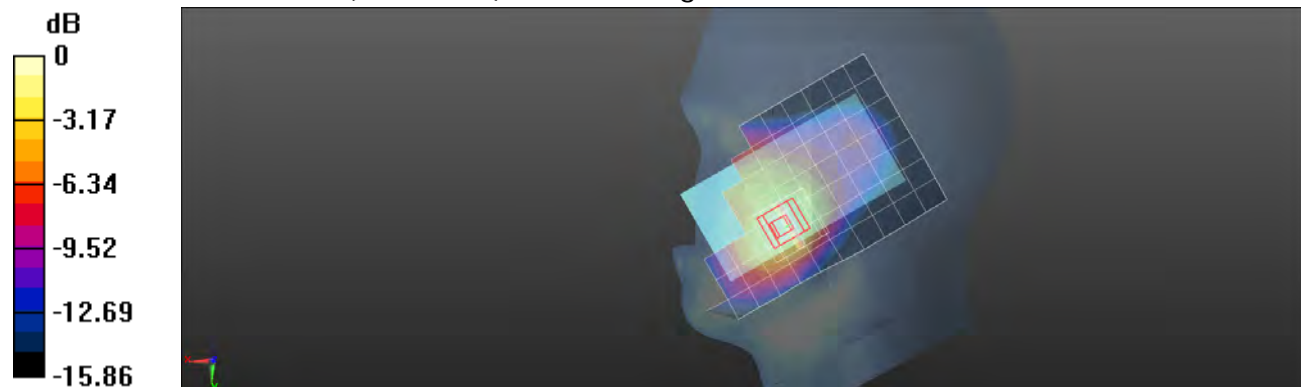
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.811 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.899 W/kg; SAR(10 g) = 0.568 W/kg.**

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2013/5/6

## RE Cheek\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 41.774$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.913 W/kg

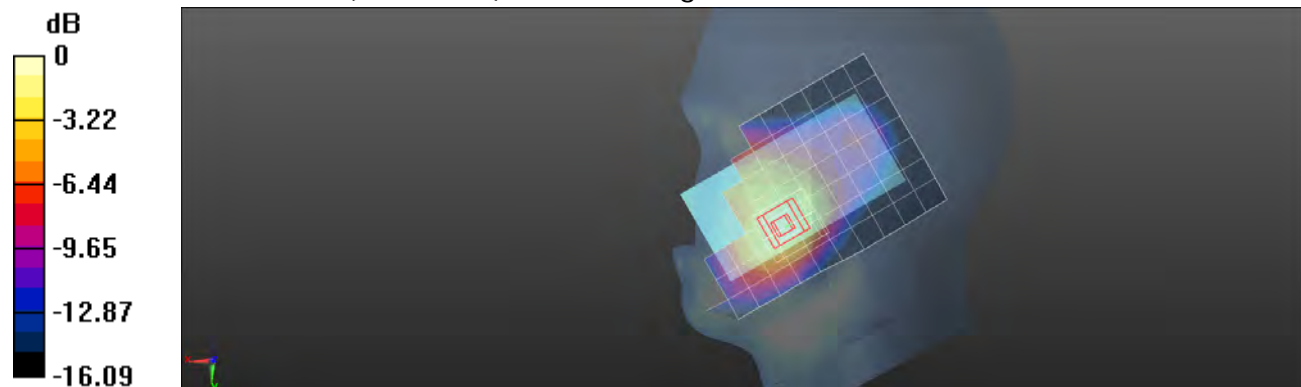
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.350 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.39 W/kg

**SAR(1 g) = 0.948 W/kg; SAR(10 g) = 0.596 W/kg**

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2013/5/6

## RE Cheek\_CH1412\_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 41.774$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.921 W/kg

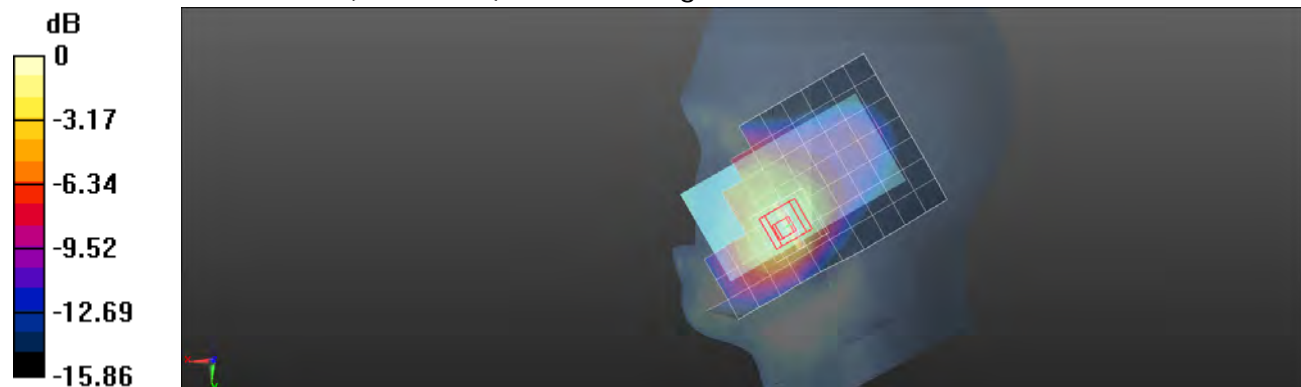
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.051 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 0.937 W/kg; SAR(10 g) = 0.586 W/kg**

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2013/5/6

## RE Cheek\_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.367$  S/m;  $\epsilon_r = 41.71$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.818 W/kg

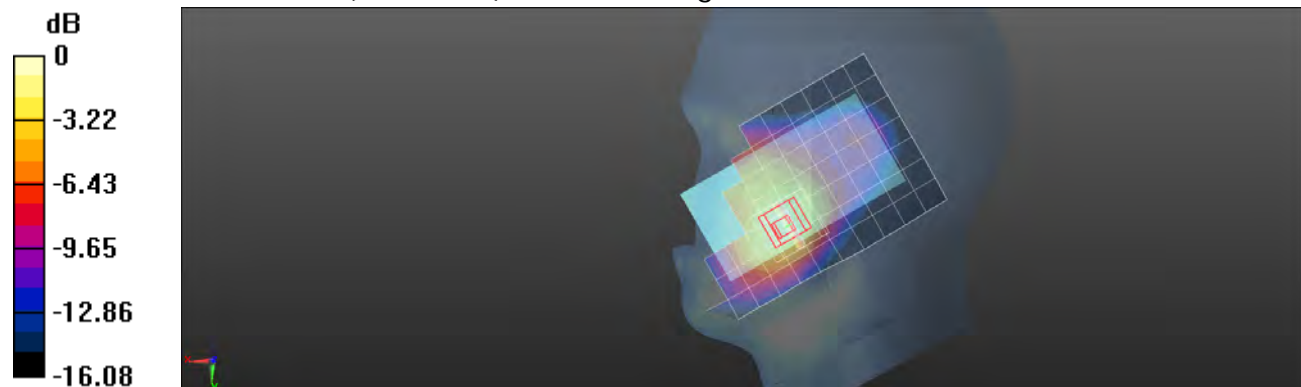
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.788 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.530 W/kg**

Maximum value of SAR (measured) = 0.969 W/kg



0 dB = 0.969 W/kg = -0.14 dBW/kg

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Date: 2013/5/6

## RE Tilt\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 41.774$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.299 W/kg

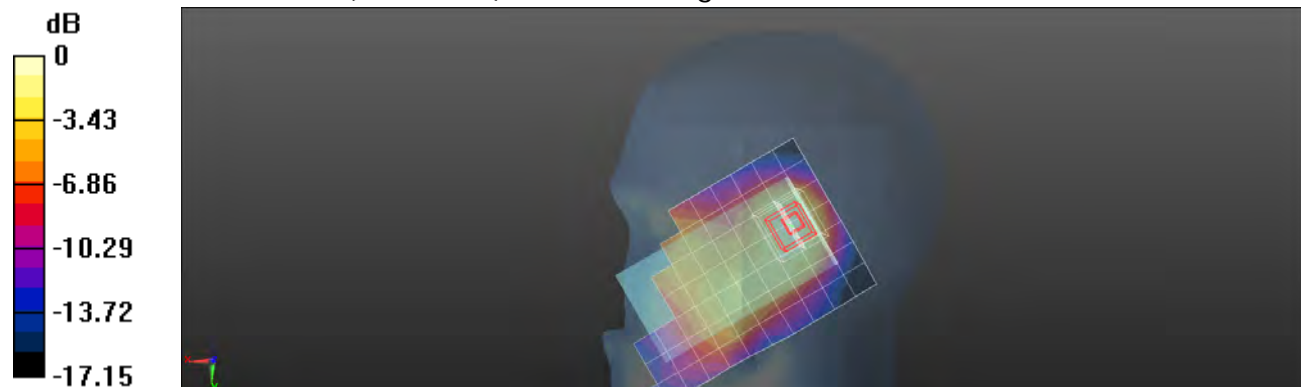
**Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.647 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.418 W/kg

**SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.161 W/kg**

Maximum value of SAR (measured) = 0.312 W/kg



0 dB = 0.312 W/kg = -5.06 dBW/kg

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Date: 2013/5/6

### LE Cheek\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 41.774$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.838 W/kg

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

Reference Value = 9.514 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.743 W/kg; SAR(10 g) = 0.452 W/kg**

Maximum value of SAR (measured) = 0.829 W/kg

**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.514 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.726 W/kg

**SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.355 W/kg**

Maximum value of SAR (measured) = 0.577 W/kg

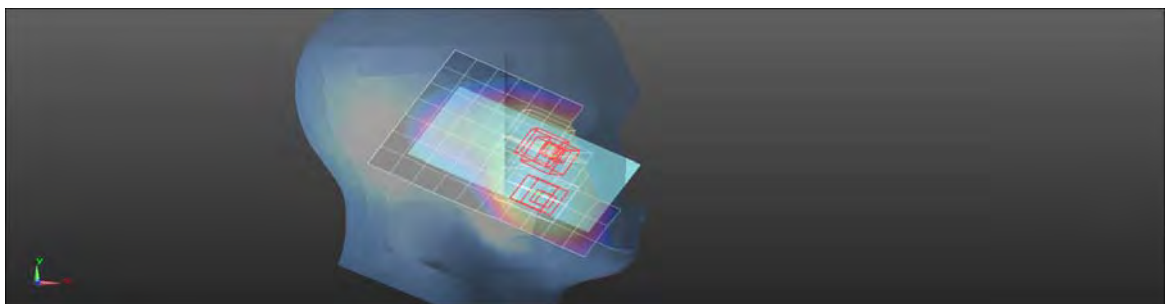
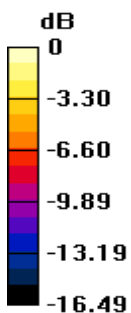
**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 2:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.514 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.726 W/kg

**SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.344 W/kg.**

Maximum value of SAR (measured) = 0.571 W/kg



0 dB = 0.571 W/kg = -2.43 dBW/kg

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Date: 2013/5/6

## LE Tilt\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 41.774$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.282 W/kg

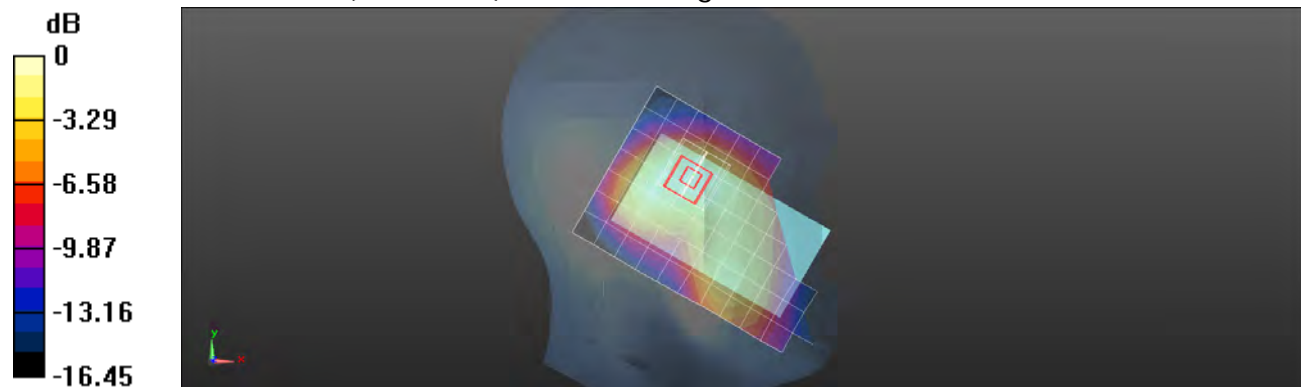
**Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.816 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.387 W/kg

**SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.174 W/kg**

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg = -5.27 dBW/kg

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Date: 2013/5/6

### Body-worn\_Speech mode\_Front side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.46$  S/m;  $\epsilon_r = 52.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.552 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

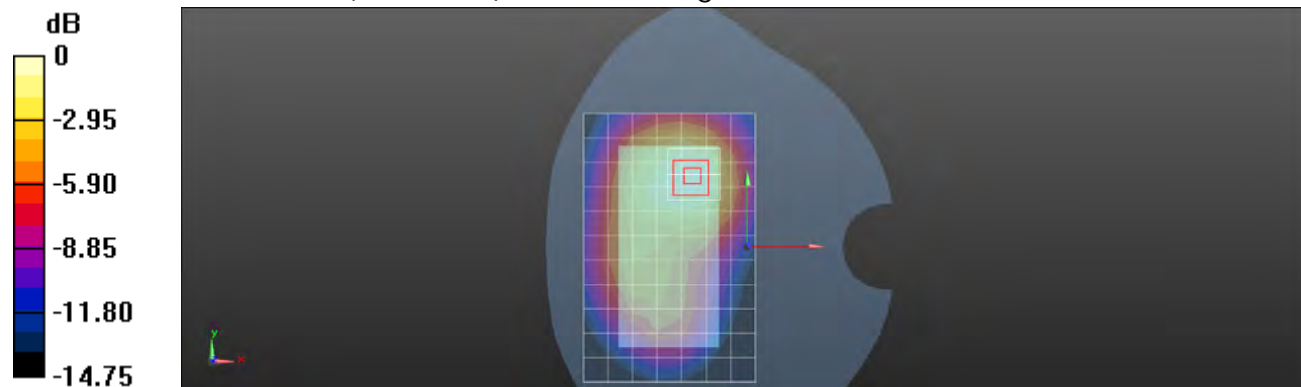
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.121 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.824 W/kg

#### SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.325 W/kg

Maximum value of SAR (measured) = 0.594 W/kg



0 dB = 0.594 W/kg = -2.26 dBW/kg

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Date: 2013/5/6

### Body-worn\_Speech mode\_Back side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.46$  S/m;  $\epsilon_r = 52.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.517 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

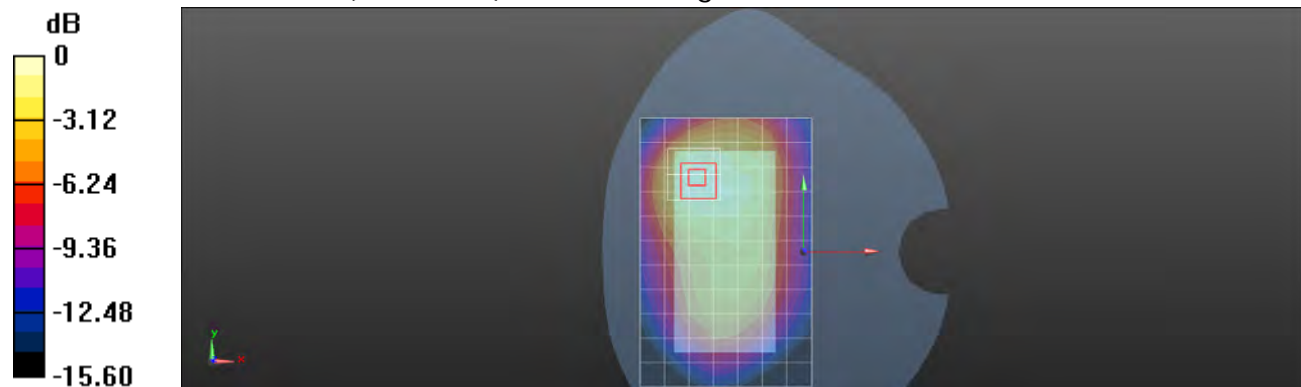
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.537 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.775 W/kg

#### SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.307 W/kg

Maximum value of SAR (measured) = 0.560 W/kg


 $0$  dB = 0.560 W/kg = -2.52 dBW/kg

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Date: 2013/5/6

### Hotspot mode\_Front side\_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

 Medium parameters used :  $f = 1712.4$  MHz;  $\sigma = 1.439$  S/m;  $\epsilon_r = 52.796$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.09 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

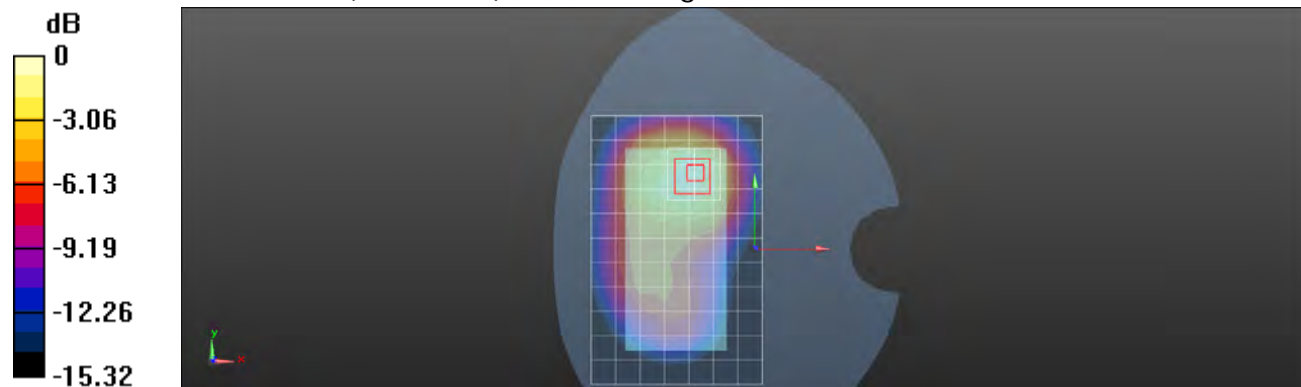
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.918 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.60 W/kg

#### SAR(1 g) = 1 W/kg; SAR(10 g) = 0.611 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

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Date: 2013/5/6

### Hotspot mode\_Front side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.46$  S/m;  $\epsilon_r = 52.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.10 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

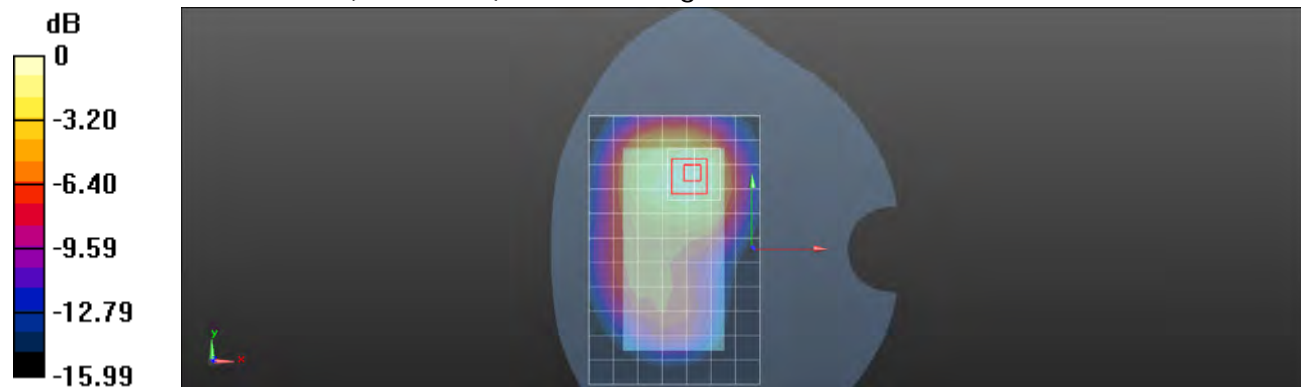
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.951 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.62 W/kg

#### SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.613 W/kg

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

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Date: 2013/5/6

## Hotspot mode\_Front side\_CH1412\_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.46$  S/m;  $\epsilon_r = 52.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (8x12x1):** Measurement grid:

$dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.04 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

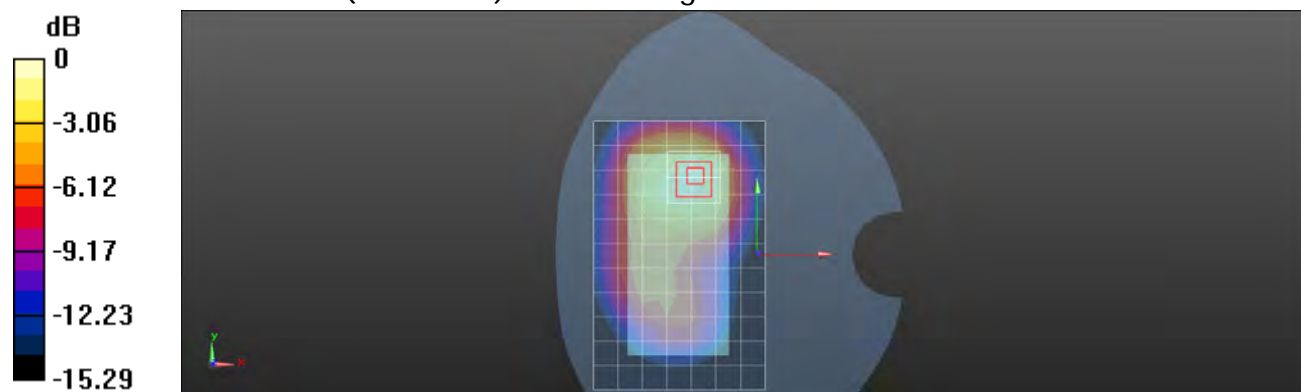
$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.454 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 0.948 W/kg; SAR(10 g) = 0.578 W/kg**

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2013/5/6

### Hotspot mode\_Front side\_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

 Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.48$  S/m;  $\epsilon_r = 52.702$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.02 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

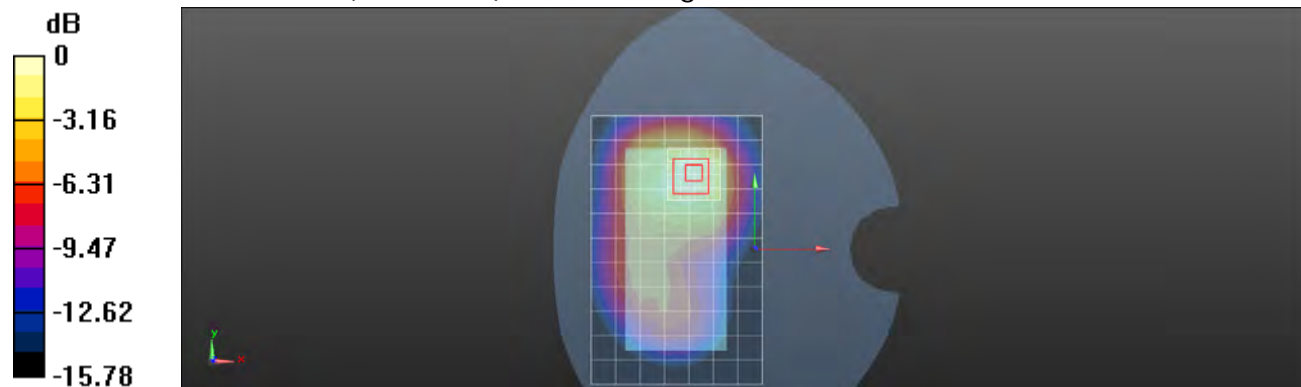
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.708 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.50 W/kg

#### SAR(1 g) = 0.932 W/kg; SAR(10 g) = 0.570 W/kg

Maximum value of SAR (measured) = 1.06 W/kg



0 dB = 1.06 W/kg = 0.25 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/6

### Hotspot mode\_Back side\_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

 Medium parameters used :  $f = 1712.4$  MHz;  $\sigma = 1.439$  S/m;  $\epsilon_r = 52.796$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.938 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

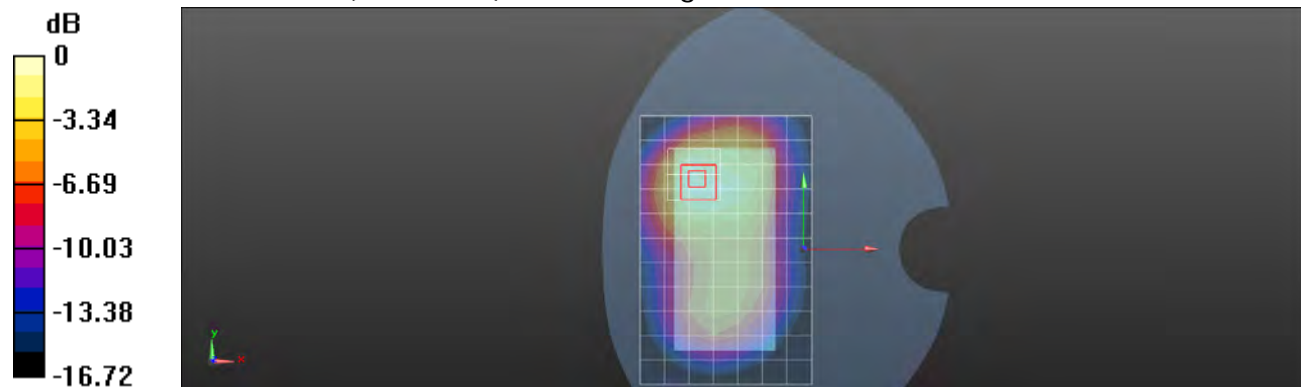
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.791 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.45 W/kg

#### SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.558 W/kg

Maximum value of SAR (measured) = 1.03 W/kg


 $0$  dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/5/6

### Hotspot mode\_Back side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.46$  S/m;  $\epsilon_r = 52.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.908 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

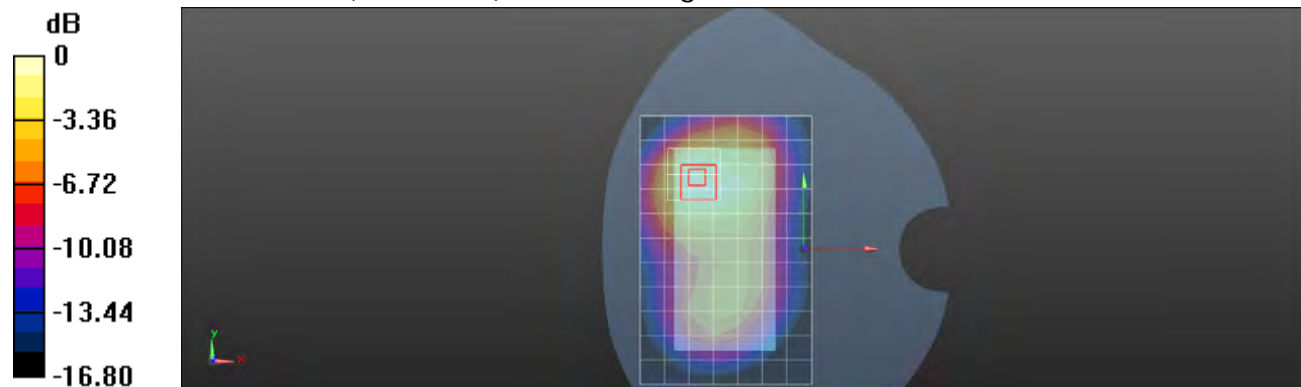
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.817 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.43 W/kg

#### SAR(1 g) = 0.891 W/kg; SAR(10 g) = 0.547 W/kg

Maximum value of SAR (measured) = 1.01 W/kg


 $0$  dB = 1.01 W/kg = 0.04 dBW/kg

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Date: 2013/5/6

### Hotspot mode\_Back side\_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

 Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.48$  S/m;  $\epsilon_r = 52.702$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.917 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

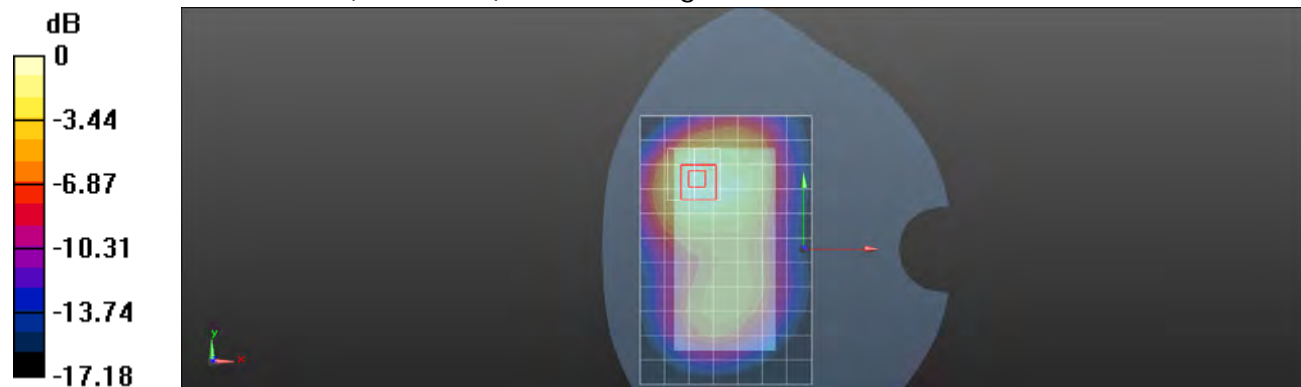
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.427 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.43 W/kg

#### SAR(1 g) = 0.887 W/kg; SAR(10 g) = 0.541 W/kg

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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### Hotspot mode\_Bottom side\_CH1312

Communication System: WCDMA; Frequency: 1712.4 MHz

Medium parameters used :  $f = 1712.4$  MHz;  $\sigma = 1.439$  S/m;  $\epsilon_r = 52.796$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.683 W/kg

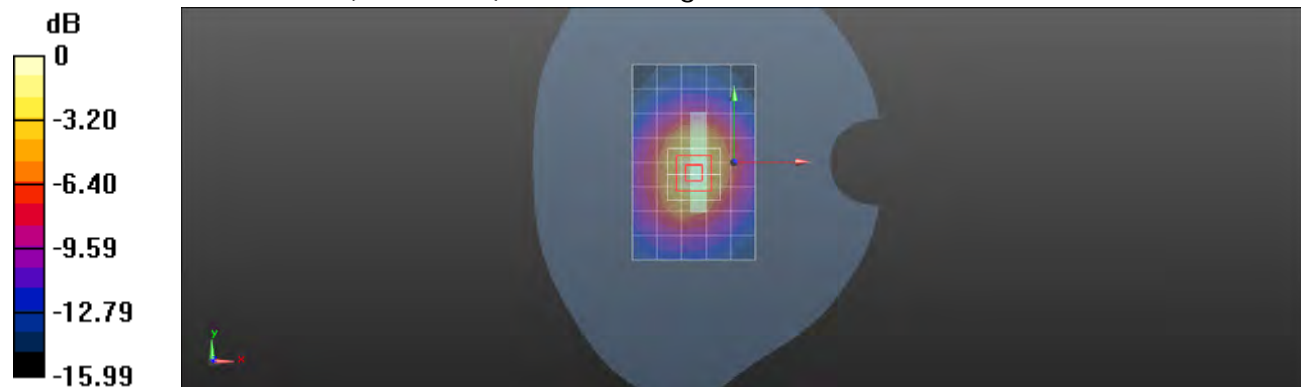
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.264 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.471 W/kg**

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/5/6

### Hotspot mode\_Bottom side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.46$  S/m;  $\epsilon_r = 52.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.770 W/kg

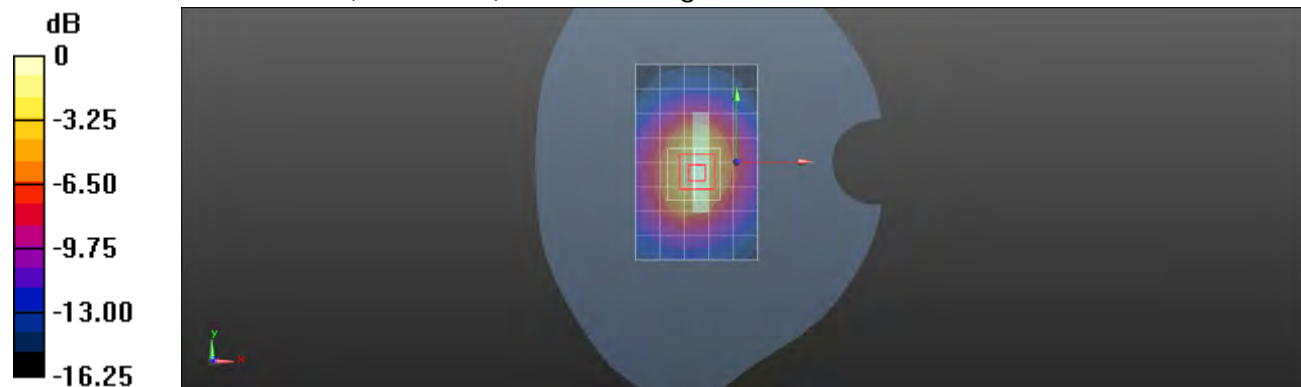
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.970 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.54 W/kg

**SAR(1 g) = 0.939 W/kg; SAR(10 g) = 0.521 W/kg**

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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### Hotspot mode\_Bottom side\_CH1513

Communication System: WCDMA; Frequency: 1752.6 MHz

 Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.48$  S/m;  $\epsilon_r = 52.702$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.727 W/kg

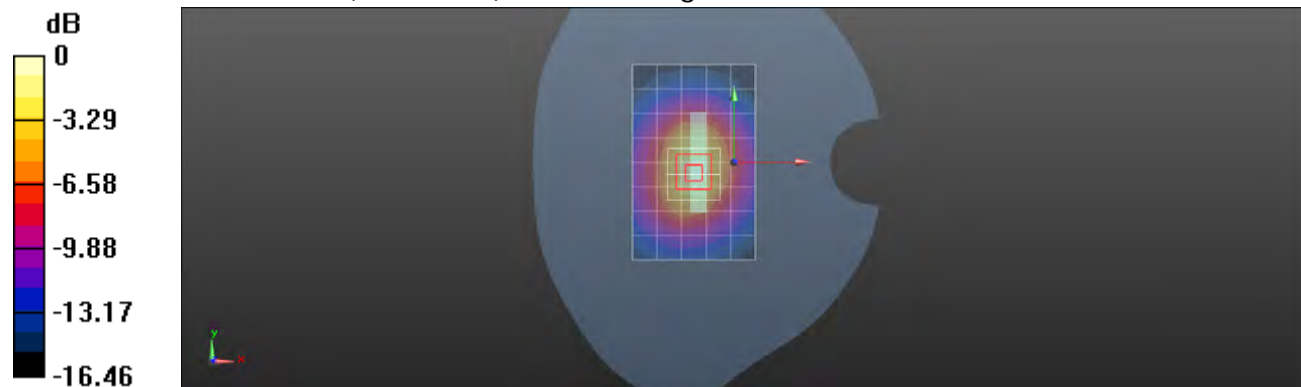
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.581 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 0.913 W/kg; SAR(10 g) = 0.504 W/kg**

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

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Date: 2013/5/6

### Hotspot mode\_Right side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.46$  S/m;  $\epsilon_r = 52.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.255 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

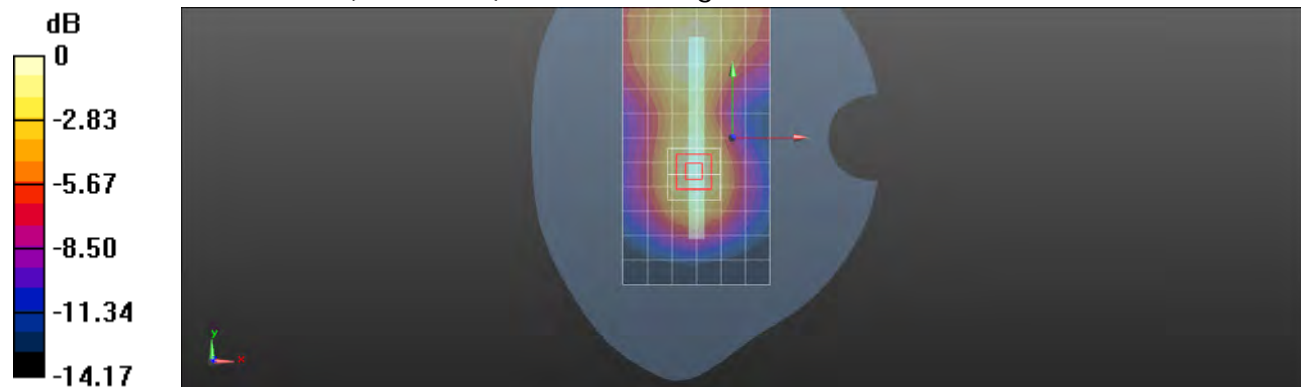
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.854 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.362 W/kg

#### SAR(1 g) = 0.230 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.264 W/kg


 $0$  dB = 0.264 W/kg = -5.78 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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### Hotspot mode\_Left side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

 Medium parameters used :  $f = 1732.4$  MHz;  $\sigma = 1.46$  S/m;  $\epsilon_r = 52.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.305 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

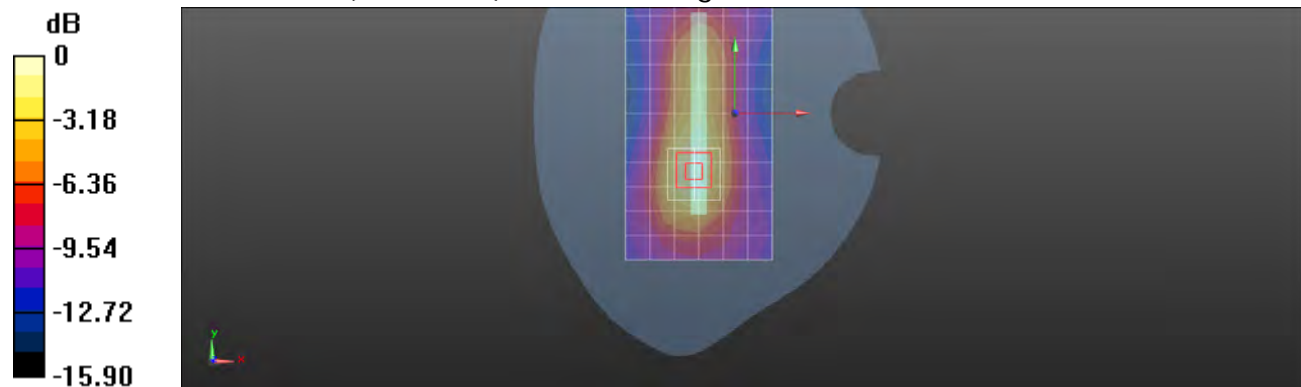
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.986 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.447 W/kg

#### SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 0.320 W/kg


 $0$  dB = 0.320 W/kg = -4.95 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/4

## RE Cheek\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.360 W/kg

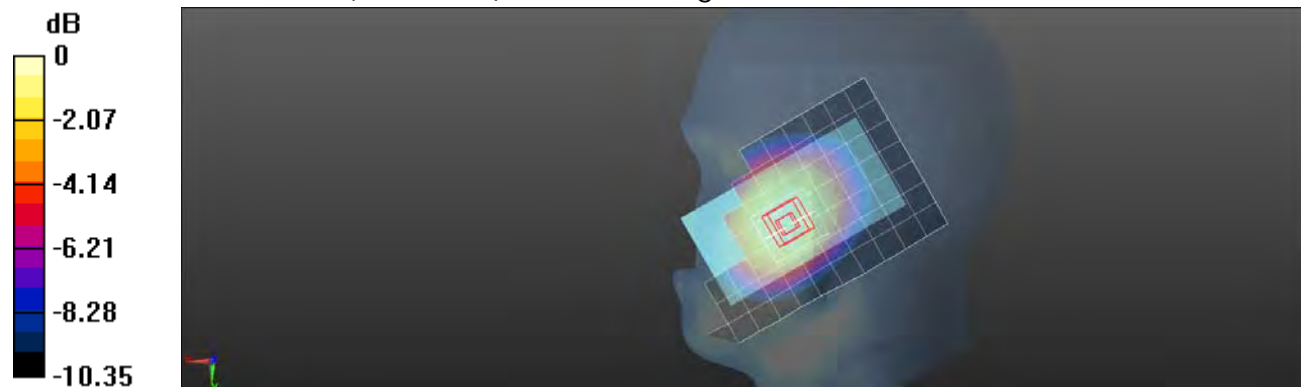
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.435 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.449 W/kg

**SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.253 W/kg**

Maximum value of SAR (measured) = 0.375 W/kg



0 dB = 0.375 W/kg = -4.26 dBW/kg

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Date: 2013/5/4

## RE Tilt\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.258 W/kg

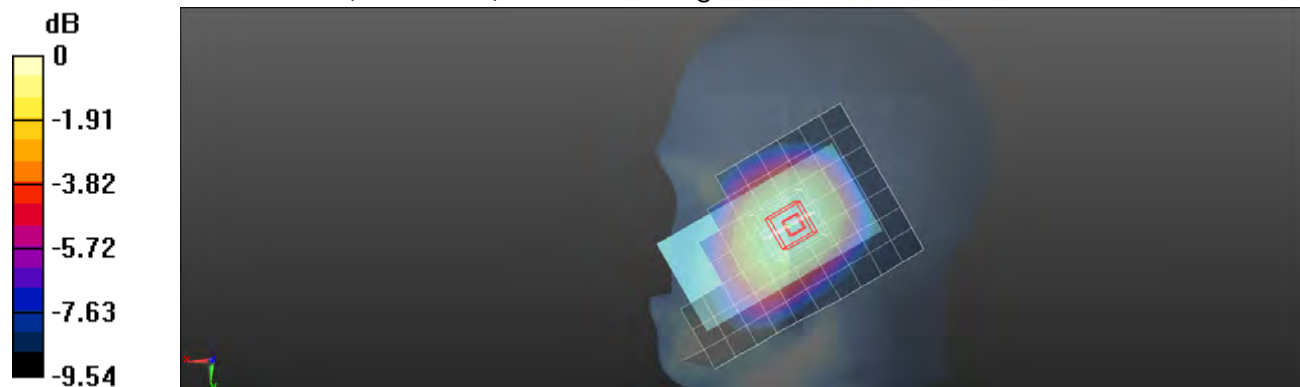
**Configuration/RE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.218 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.311 W/kg

**SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.178 W/kg**

Maximum value of SAR (measured) = 0.264 W/kg



0 dB = 0.264 W/kg = -5.78 dBW/kg

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Date: 2013/5/4

## LE Cheek\_CH4132

Communication System: WCDMA; Frequency: 826.4 MHz

Medium parameters used :  $f = 826.4$  MHz;  $\sigma = 0.883$  S/m;  $\epsilon_r = 41.596$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.408 W/kg

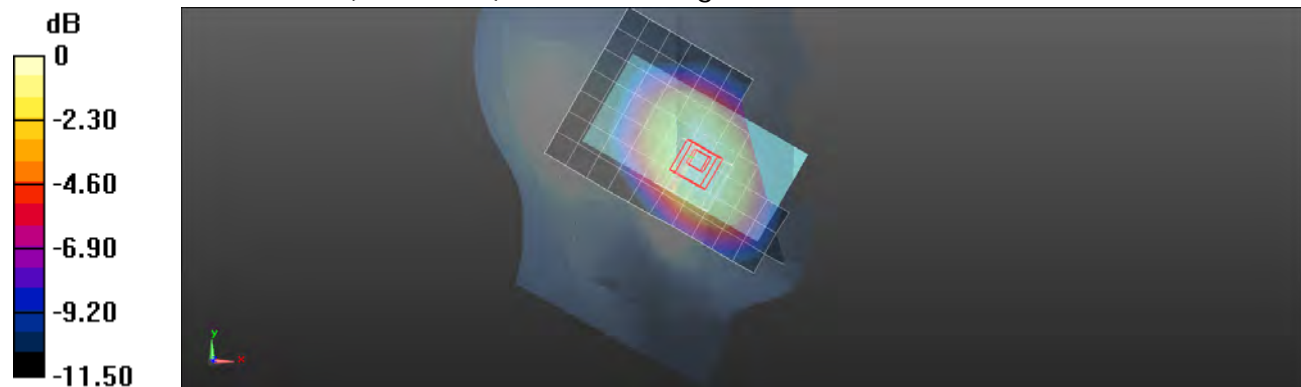
**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.041 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.514 W/kg

**SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.272 W/kg**

Maximum value of SAR (measured) = 0.412 W/kg



0 dB = 0.412 W/kg = -3.85 dBW/kg

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2013/5/4

## LE Cheek\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.369 W/kg

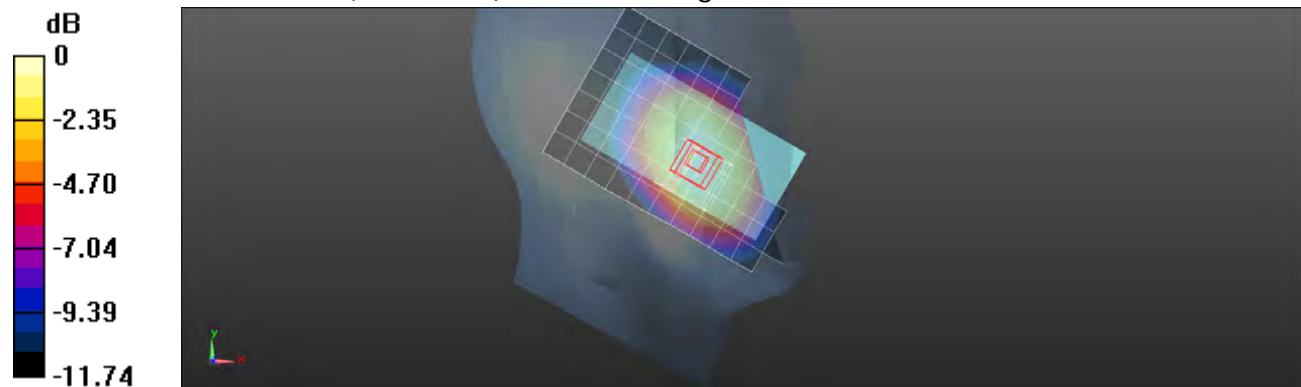
**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.310 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.466 W/kg

**SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.246 W/kg**

Maximum value of SAR (measured) = 0.379 W/kg



0 dB = 0.379 W/kg = -4.21 dBW/kg

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Date: 2013/5/4

## LE Cheek\_CH4233

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.904$  S/m;  $\epsilon_r = 41.345$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.551 W/kg

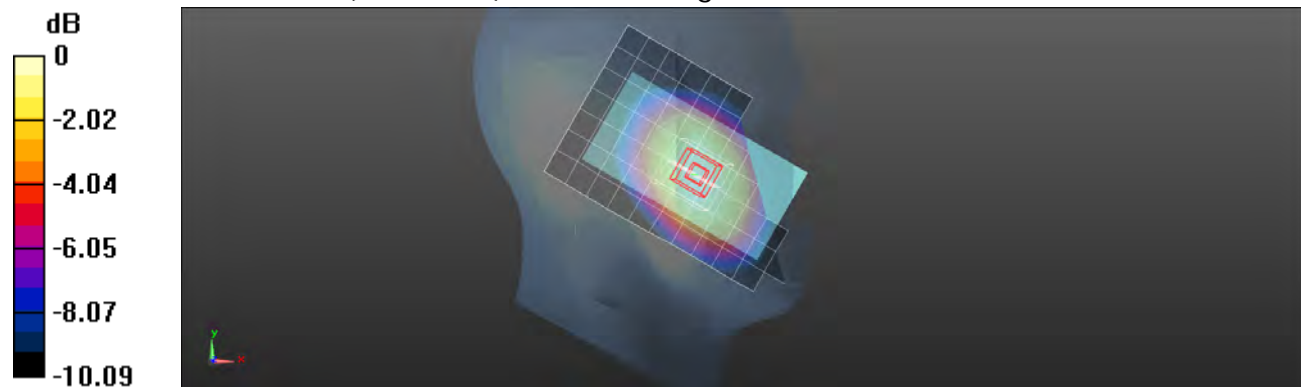
**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.353 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.681 W/kg

**SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.375 W/kg**

Maximum value of SAR (measured) = 0.570 W/kg



0 dB = 0.570 W/kg = -2.44 dBW/kg

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Date: 2013/5/4

## LE Tilt\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.894$  S/m;  $\epsilon_r = 41.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (8x12x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.276 W/kg

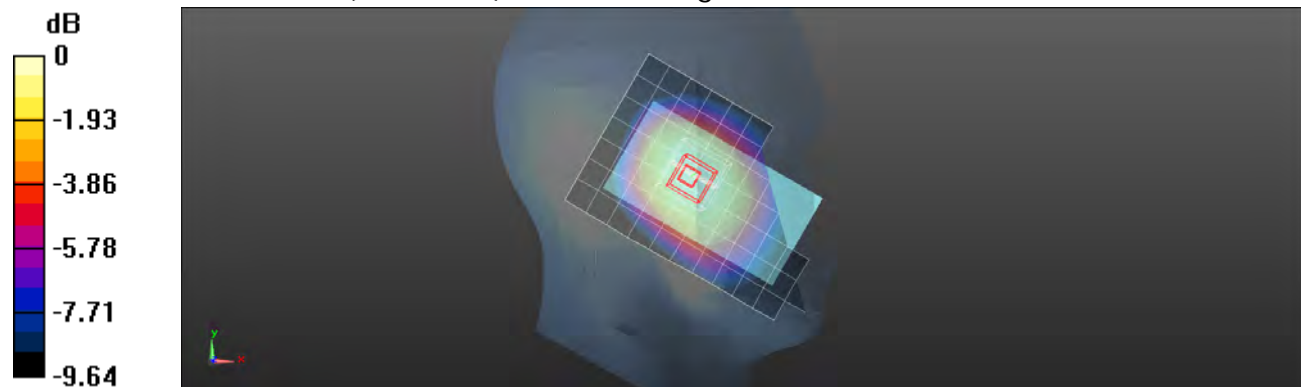
**Configuration/LE Tilt/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.862 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.334 W/kg

**SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.193 W/kg**

Maximum value of SAR (measured) = 0.284 W/kg



0 dB = 0.284 W/kg = -5.47 dBW/kg

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Date: 2013/5/4

### Body-worn\_Speech mode\_Front side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

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

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

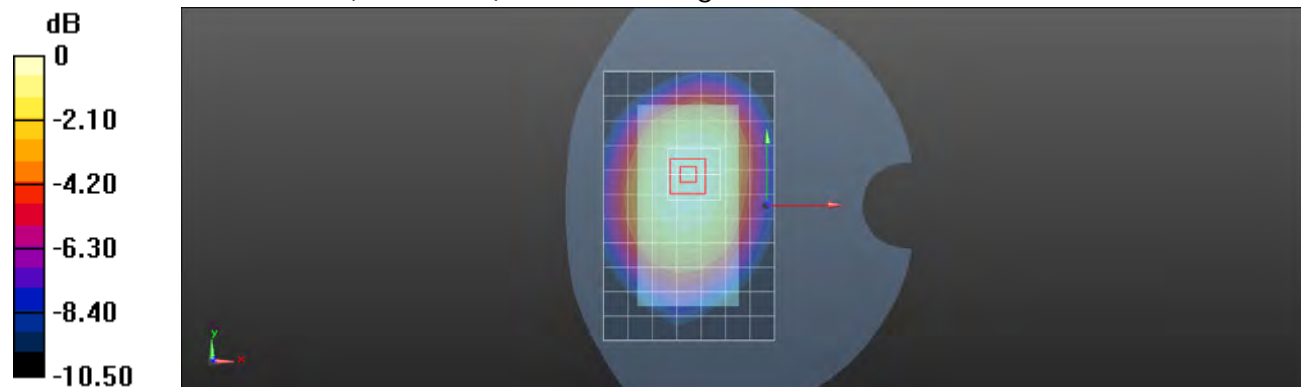
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.038 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.292 W/kg

#### SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.245 W/kg



0 dB = 0.245 W/kg = -6.11 dBW/kg

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Date: 2013/5/4

### Body-worn\_Speech mode\_Back side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.320 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

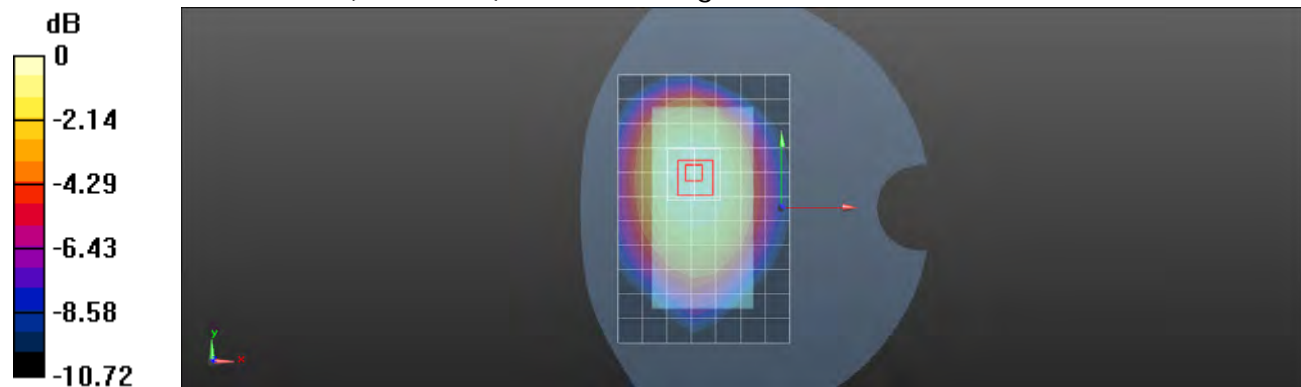
dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.397 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.384 W/kg

#### SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.212 W/kg

Maximum value of SAR (measured) = 0.319 W/kg



0 dB = 0.319 W/kg = -4.96 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2013/5/4

### Hotspot mode\_Front side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.487 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

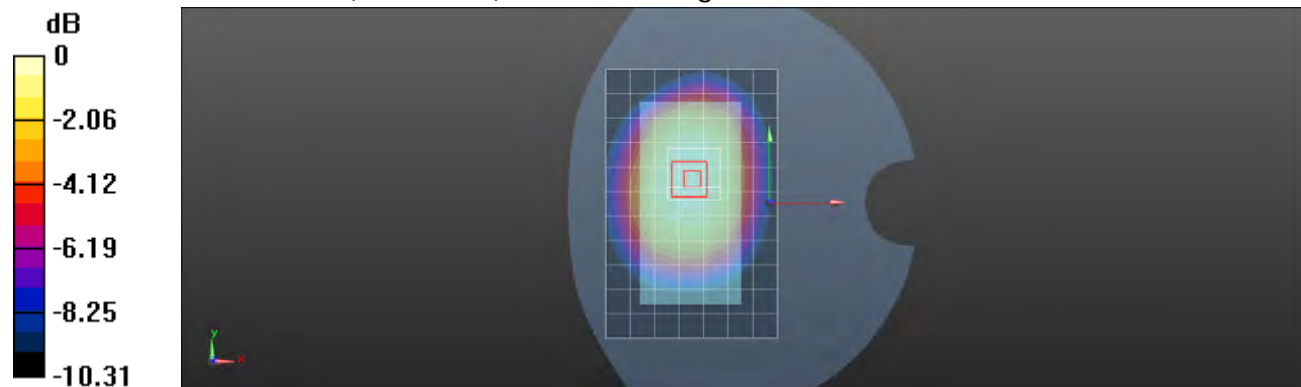
 $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 15.425 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.618 W/kg

#### SAR(1 g) = 0.476 W/kg; SAR(10 g) = 0.354 W/kg

Maximum value of SAR (measured) = 0.515 W/kg


 $0$  dB = 0.515 W/kg = -2.88 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Back side\_CH4132

Communication System: WCDMA; Frequency: 826.4 MHz

 Medium parameters used :  $f = 826.4 \text{ MHz}$ ;  $\sigma = 0.976 \text{ S/m}$ ;  $\epsilon_r = 56.43$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

 $dx=15\text{mm}$ ,  $dy=15\text{mm}$ 

Maximum value of SAR (measured) = 0.791 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

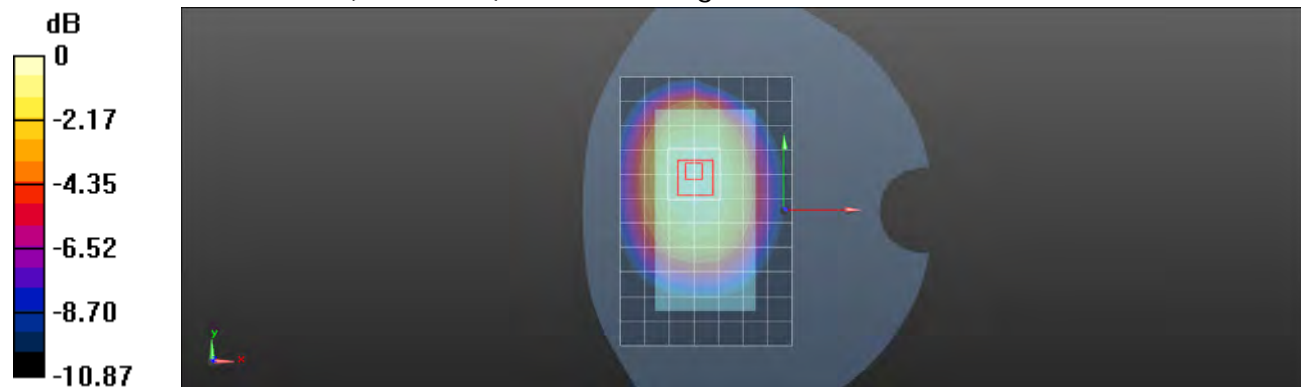
 $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 17.214 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.974 W/kg

#### SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.547 W/kg

Maximum value of SAR (measured) = 0.813 W/kg


 $0 \text{ dB} = 0.813 \text{ W/kg} = -0.90 \text{ dBW/kg}$ 

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Date: 2013/5/4

### Hotspot mode\_Back side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.700 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

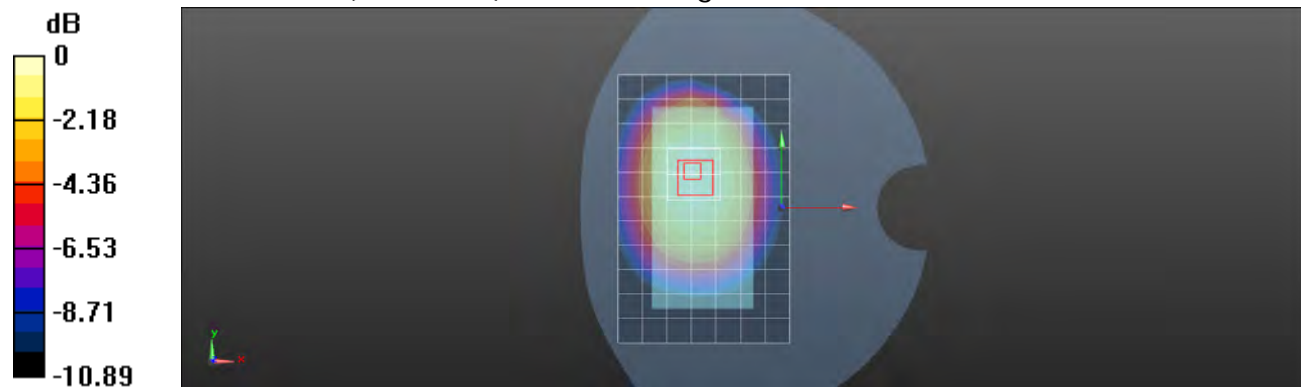
dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.399 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.862 W/kg

#### SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.473 W/kg

Maximum value of SAR (measured) = 0.713 W/kg



0 dB = 0.713 W/kg = -1.47 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Back side\_CH4233

Communication System: WCDMA; Frequency: 846.6 MHz

 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.997$  S/m;  $\epsilon_r = 56.29$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x12x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.996 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

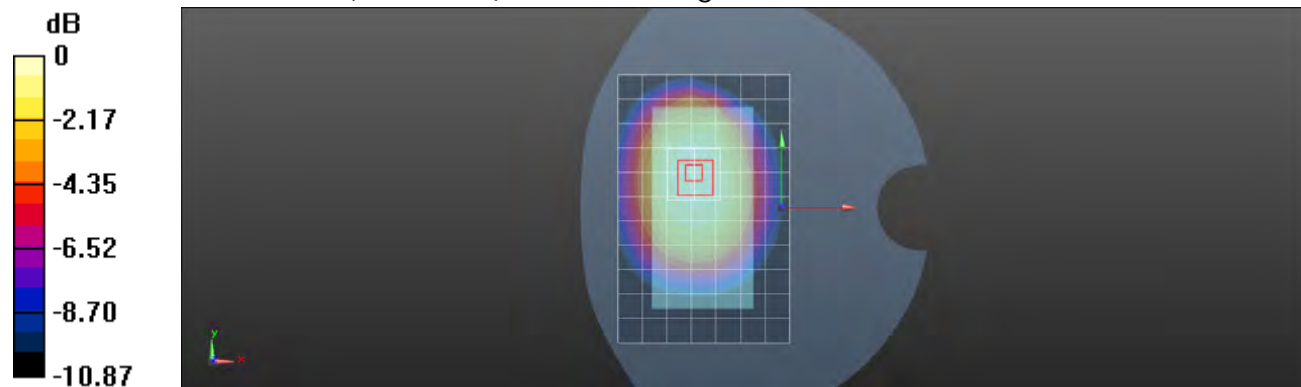
dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.354 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.18 W/kg

#### SAR(1 g) = 0.910 W/kg; SAR(10 g) = 0.665 W/kg

Maximum value of SAR (measured) = 0.993 W/kg



0 dB = 0.993 W/kg = -0.03 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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## Hotspot mode\_Back side\_CH4233\_repeat SAR test at the highest SAR measurement

Communication System: WCDMA; Frequency: 846.6 MHz

 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.997$  S/m;  $\epsilon_r = 56.29$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (8x12x1):** Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.983 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.175 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.664 W/kg**

Maximum value of SAR (measured) = 0.988 W/kg



0 dB = 0.988 W/kg = -0.05 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Bottom side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.0659 W/kg

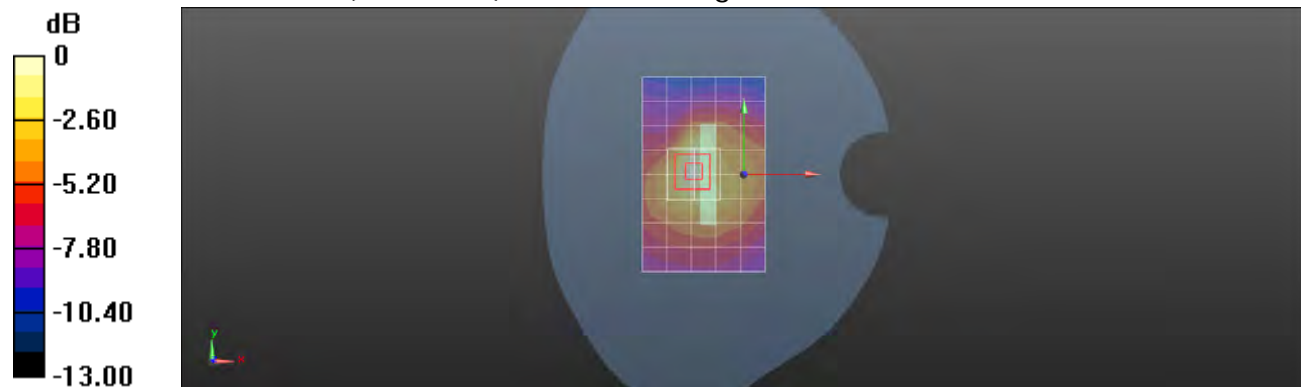
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.983 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.105 W/kg

**SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.030 W/kg**

Maximum value of SAR (measured) = 0.0650 W/kg



0 dB = 0.0650 W/kg = -11.87 dBW/kg

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Date: 2013/5/4

### Hotspot mode\_Right side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz

 Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.467 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

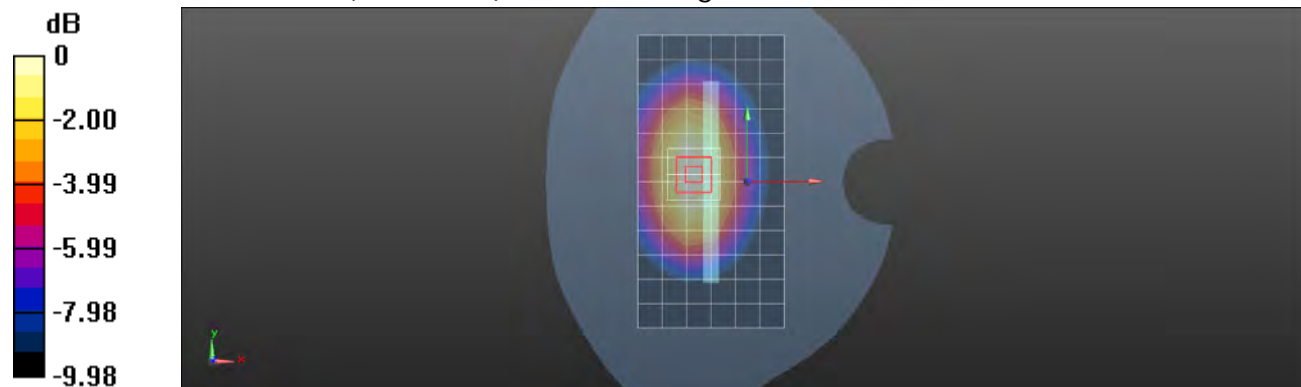
dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.876 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.599 W/kg

#### SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.297 W/kg

Maximum value of SAR (measured) = 0.483 W/kg



0 dB = 0.483 W/kg = -3.16 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2013/5/4

### Hotspot mode\_Left side\_CH4183

Communication System: WCDMA; Frequency: 836.6 MHz  
Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.987$  S/m;  $\epsilon_r = 56.36$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x13x1): Measurement grid:

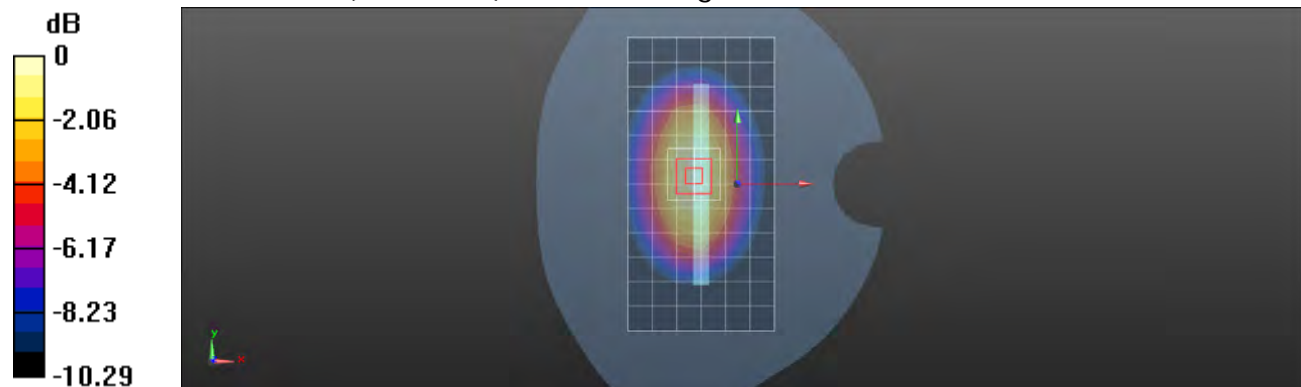
$dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.432 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

$dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm  
Reference Value = 19.925 V/m; Power Drift = 0.11 dB  
Peak SAR (extrapolated) = 0.571 W/kg

#### SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.272 W/kg

Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.451 W/kg = -3.46 dBW/kg

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Date: 2013/5/10

## RE Cheek\_WLAN802.11b\_CH1

Communication System: WLAN 2.45G (FCC); Frequency: 2412 MHz

 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.758$  S/m;  $\epsilon_r = 39.077$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.850 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

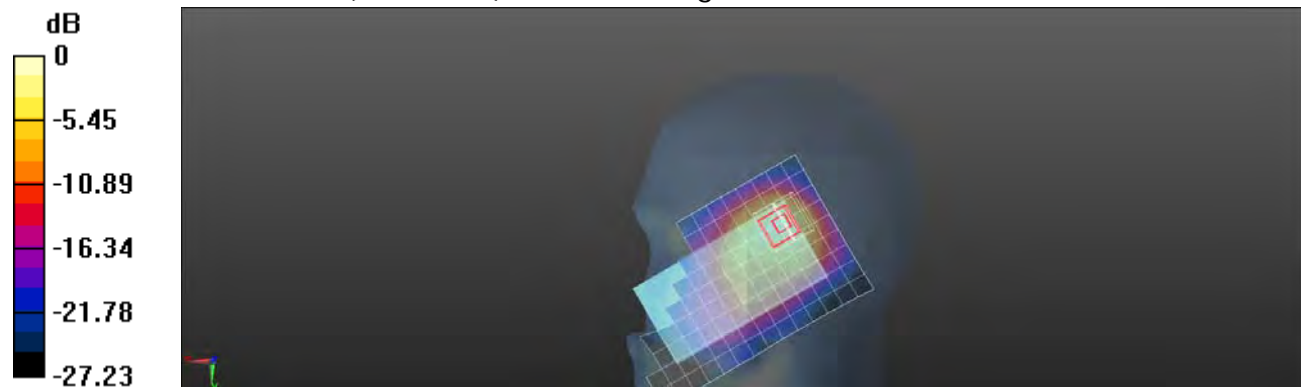
dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.341 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.315 W/kg**

Maximum value of SAR (measured) = 0.967 W/kg



0 dB = 0.967 W/kg = -0.15 dBW/kg

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Date: 2013/5/10

## RE Cheek\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.786$  S/m;  $\epsilon_r = 38.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.790 W/kg

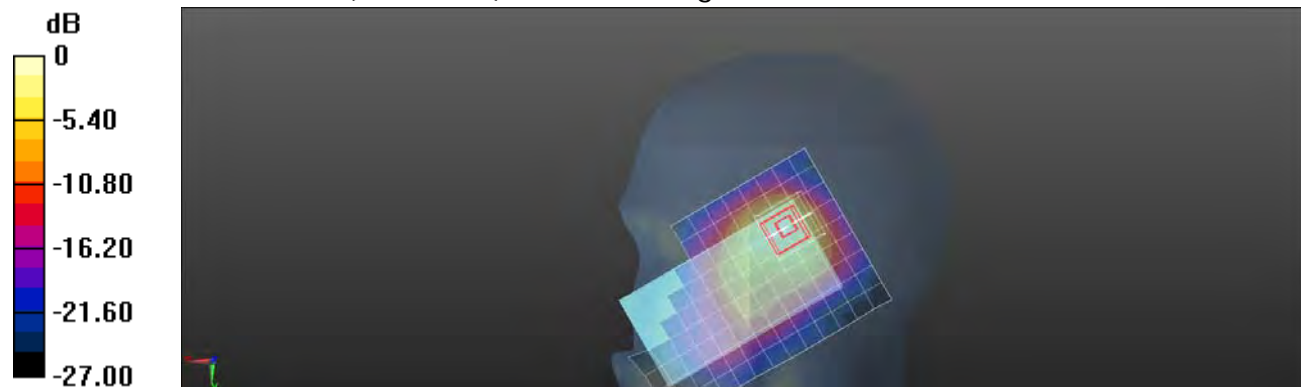
**Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.476 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.16 W/kg

**SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.275 W/kg**

Maximum value of SAR (measured) = 0.834 W/kg



0 dB = 0.834 W/kg = -0.79 dBW/kg

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Date: 2013/5/10

## RE Cheek\_WLAN802.11b\_CH11

Communication System: WLAN 2.45G (FCC); Frequency: 2462 MHz

 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 38.925$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.828 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

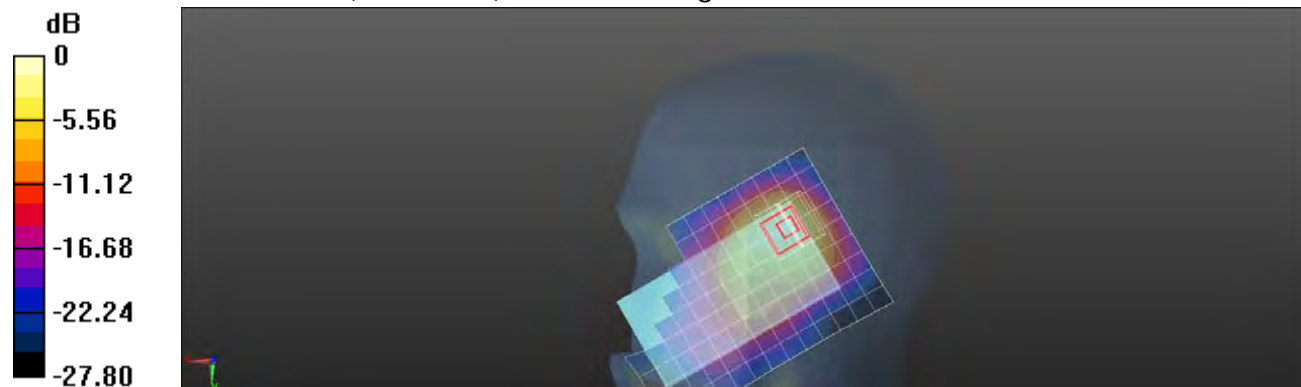
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.749 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.31 W/kg

**SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.306 W/kg**

Maximum value of SAR (measured) = 0.951 W/kg



0 dB = 0.951 W/kg = -0.22 dBW/kg

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Date: 2013/5/10

## RE Cheek\_WLAN802.11b\_CH1\_repeated with external Memory card inside

Communication System: WLAN 2.45G (FCC); Frequency: 2412 MHz

 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.758$  S/m;  $\epsilon_r = 39.077$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.829 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

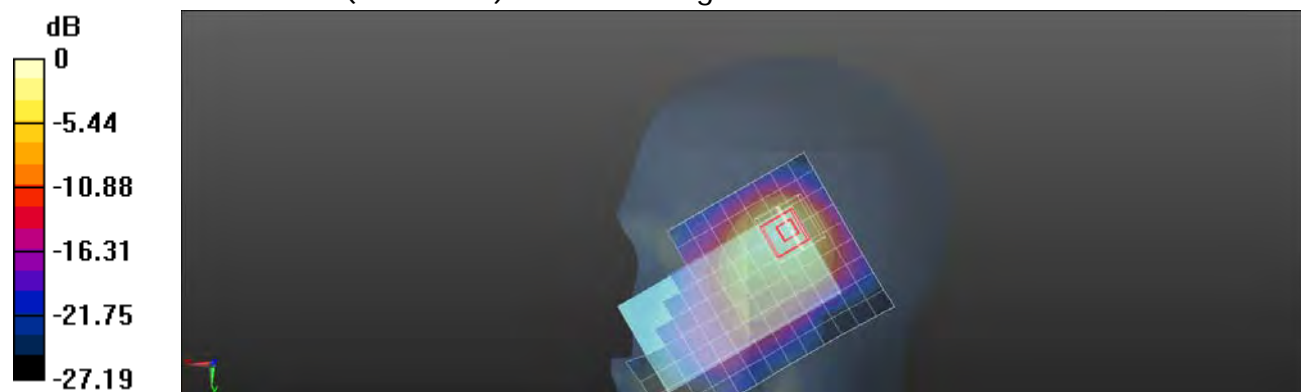
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.775 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.26 W/kg

**SAR(1 g) = 0.625 W/kg; SAR(10 g) = 0.308 W/kg**

Maximum value of SAR (measured) = 0.937 W/kg



0 dB = 0.937 W/kg = -0.28 dBW/kg

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Date: 2013/5/10

## RE Tilt\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.786$  S/m;  $\epsilon_r = 38.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.559 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

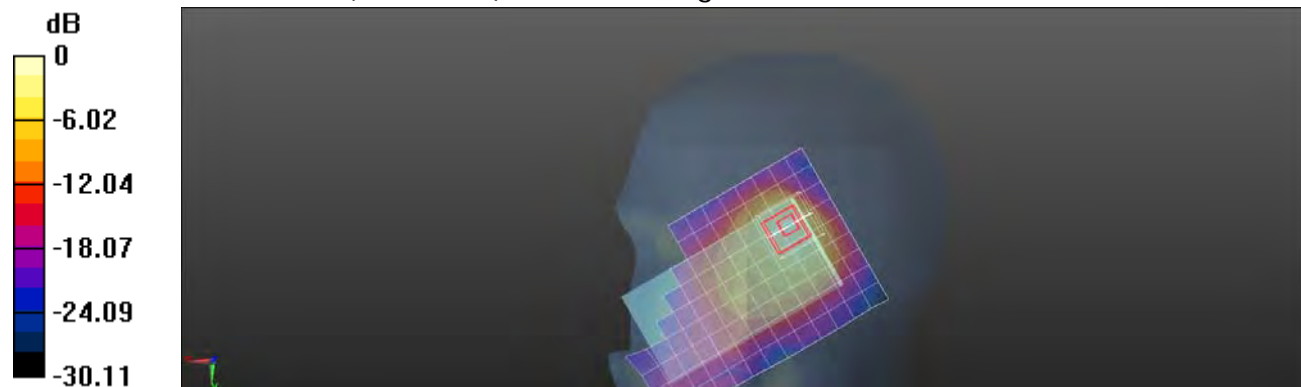
dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.361 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.980 W/kg

**SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.209 W/kg**

Maximum value of SAR (measured) = 0.695 W/kg



0 dB = 0.695 W/kg = -1.58 dBW/kg

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Date: 2013/5/10

### LE Cheek\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.786$  S/m;  $\epsilon_r = 38.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.369 W/kg

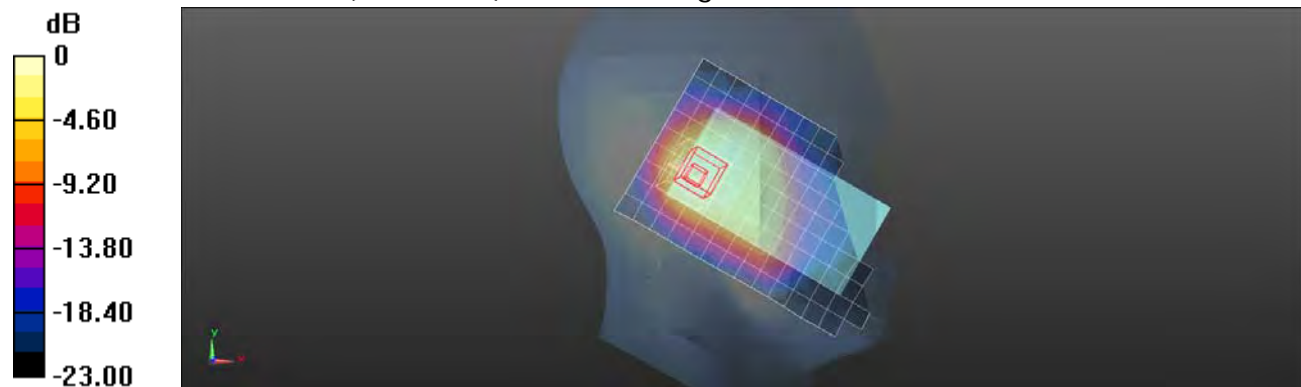
**Configuration/LE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.222 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.566 W/kg

**SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.160 W/kg**

Maximum value of SAR (measured) = 0.426 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

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Date: 2013/5/10

### LE Tilt\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.786$  S/m;  $\epsilon_r = 38.983$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (10x15x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.358 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

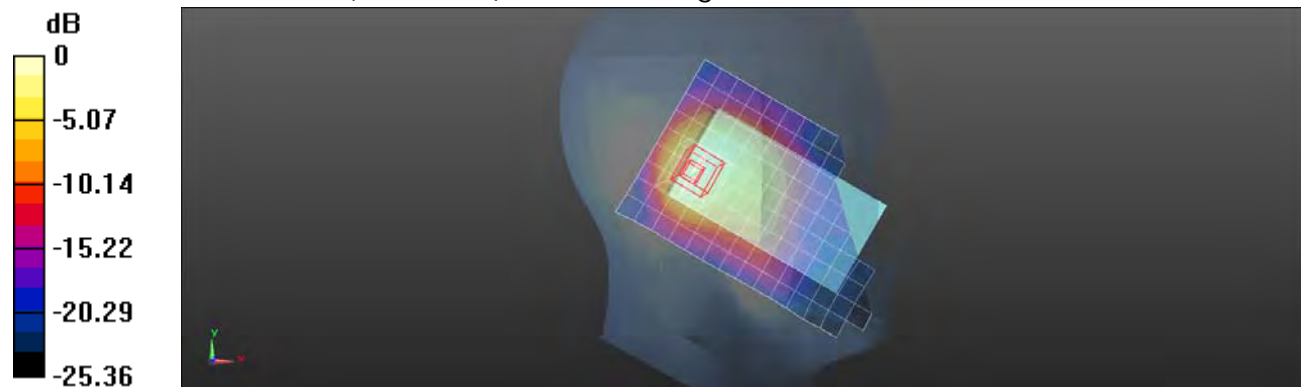
dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.932 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.531 W/kg

**SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.145 W/kg**

Maximum value of SAR (measured) = 0.399 W/kg



0 dB = 0.399 W/kg = -3.99 dBW/kg

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Date: 2013/5/10

### Hotspot mode\_Front side\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.923$  S/m;  $\epsilon_r = 54.387$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (9x14x1): Measurement grid:

 $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.156 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

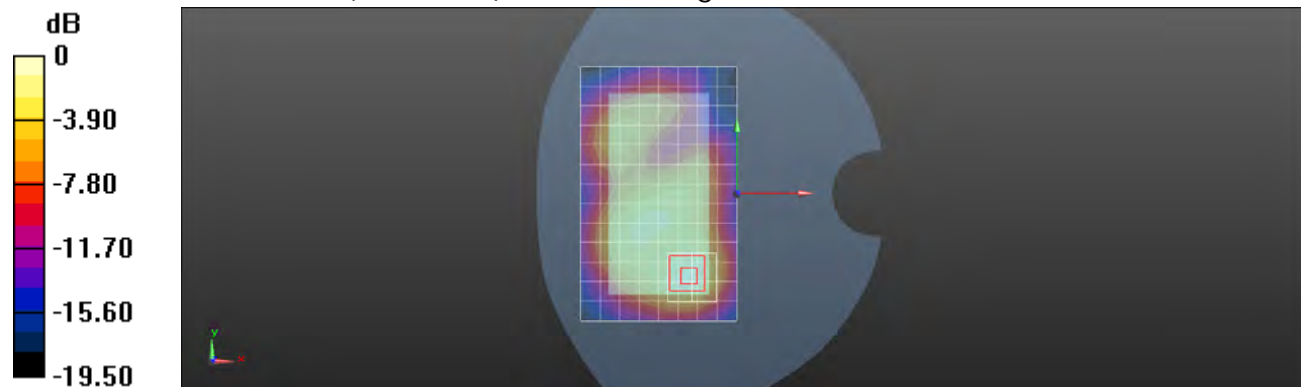
 $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.814 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.244 W/kg

#### SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.182 W/kg


 $0$  dB = 0.182 W/kg = -7.40 dBW/kg

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Date: 2013/5/10

### Hotspot mode\_Back side\_WLAN802.11b\_CH1

Communication System: WLAN 2.45G (FCC); Frequency: 2412 MHz

 Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.89$  S/m;  $\epsilon_r = 54.466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (9x14x1): Measurement grid:

dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.193 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.600 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.288 W/kg

#### SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.214 W/kg



0 dB = 0.214 W/kg = -6.70 dBW/kg

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Date: 2013/5/10

### Hotspot mode\_Back side\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.923$  S/m;  $\epsilon_r = 54.387$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (9x14x1): Measurement grid:

$dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.196 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

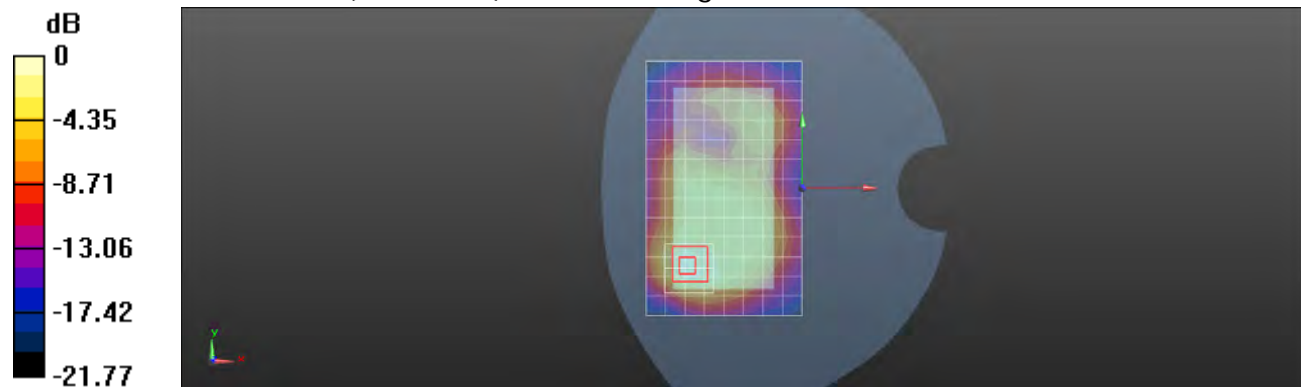
$dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.740 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.294 W/kg

#### SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.075 W/kg

Maximum value of SAR (measured) = 0.216 W/kg



0 dB = 0.216 W/kg = -6.66 dBW/kg

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Date: 2013/5/10

### Hotspot mode\_Back side\_WLAN802.11b\_CH11

Communication System: WLAN 2.45G (FCC); Frequency: 2462 MHz

 Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.959$  S/m;  $\epsilon_r = 54.336$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (9x14x1): Measurement grid:

 $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.244 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

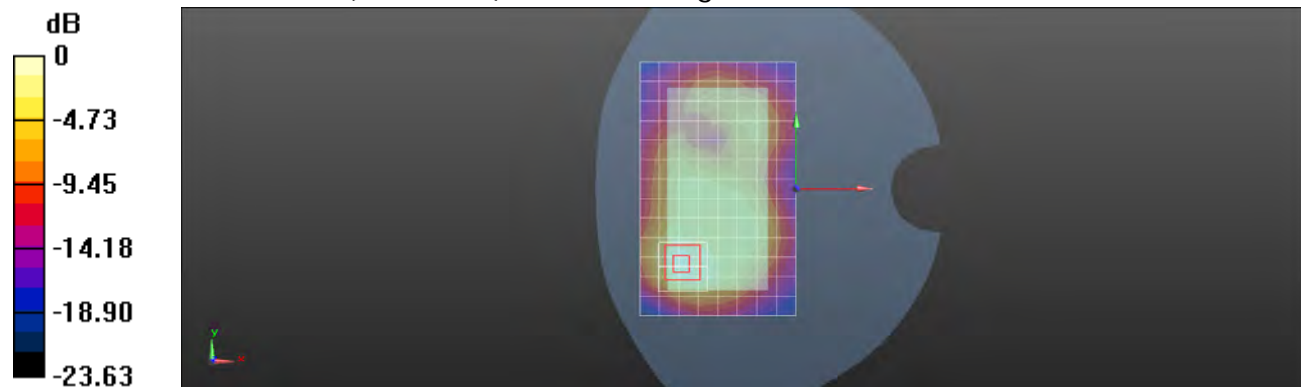
 $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.880 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.357 W/kg

#### SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.262 W/kg


 $0$  dB = 0.262 W/kg = -5.82 dBW/kg

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Date: 2013/5/10

### Hotspot mode\_Top side\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.923$  S/m;  $\epsilon_r = 54.387$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (5x9x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.143 W/kg

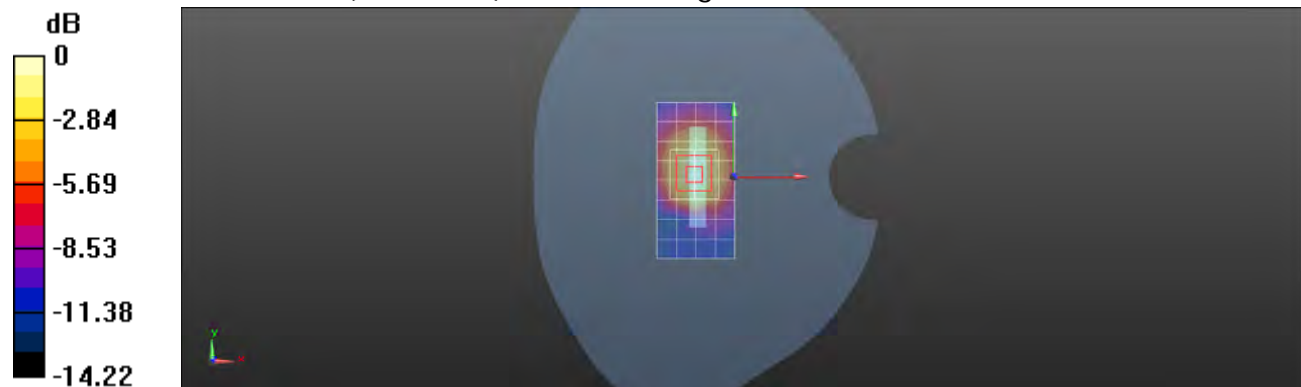
**Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.877 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.196 W/kg

**SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.055 W/kg**

Maximum value of SAR (measured) = 0.147 W/kg



0 dB = 0.147 W/kg = -8.33 dBW/kg

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Date: 2013/5/10

### Hotspot mode\_Left side\_WLAN802.11b\_CH6

Communication System: WLAN 2.45G (FCC); Frequency: 2437 MHz

 Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.923$  S/m;  $\epsilon_r = 54.387$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (6x14x1): Measurement grid:

 $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.117 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

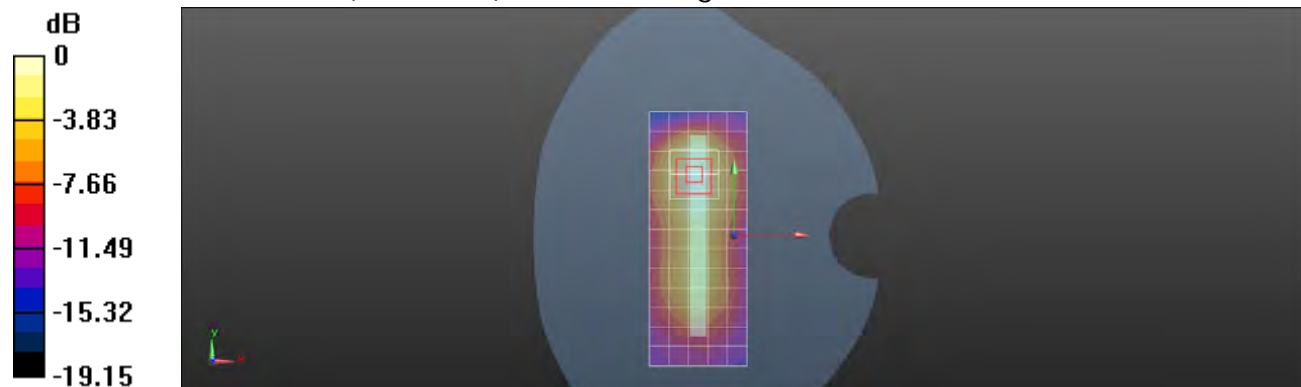
 $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.342 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.164 W/kg

#### SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.124 W/kg


 $0$  dB = 0.124 W/kg = -9.07 dBW/kg

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Date: 2013/5/12

### RE Cheek\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.551$  S/m;  $\epsilon_r = 36.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.493 W/kg

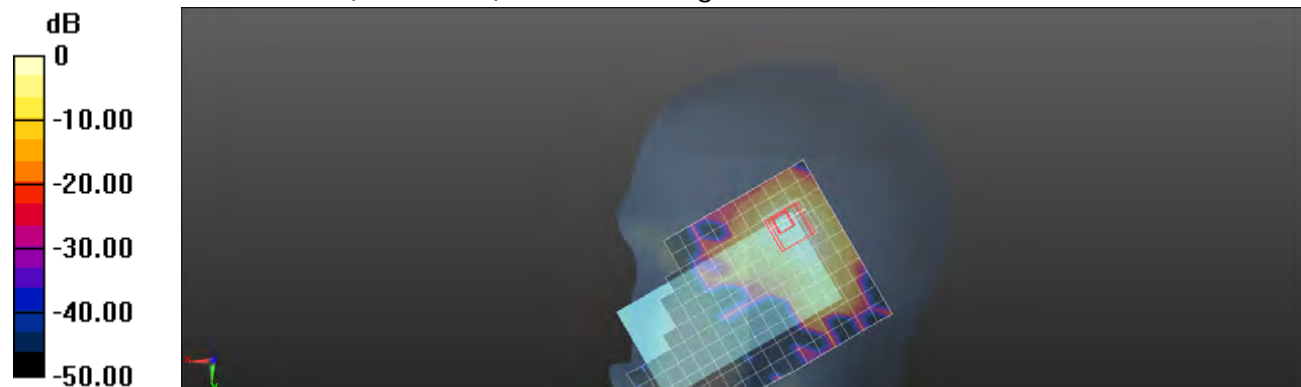
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.552 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.101 W/kg**

Maximum value of SAR (measured) = 0.572 W/kg



0 dB = 0.572 W/kg = -2.43 dBW/kg

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Date: 2013/5/12

### RE Cheek\_WLAN802.11a 5.2G\_CH44

Communication System: WLAN 5G (FCC); Frequency: 5220 MHz

Medium parameters used:  $f = 5220$  MHz;  $\sigma = 4.603$  S/m;  $\epsilon_r = 36.183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.454 W/kg

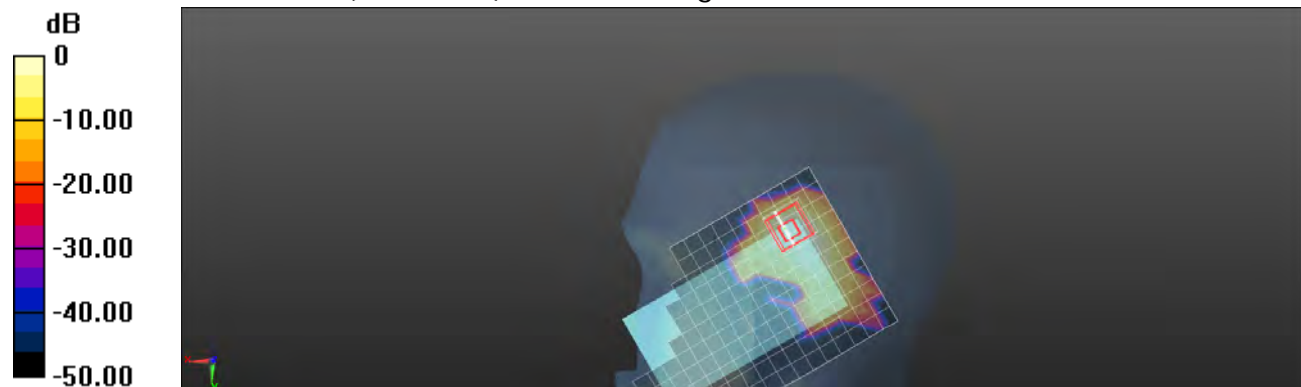
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.827 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.086 W/kg**

Maximum value of SAR (measured) = 0.559 W/kg



0 dB = 0.559 W/kg = -2.53 dBW/kg

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/12

### RE Tilt\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.551$  S/m;  $\epsilon_r = 36.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.497 W/kg

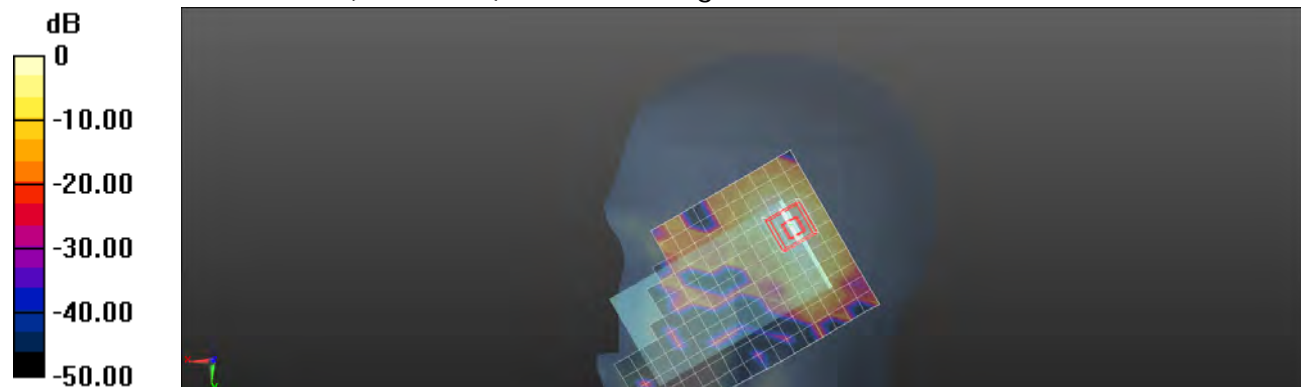
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.348 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.932 W/kg

**SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.091 W/kg**

Maximum value of SAR (measured) = 0.511 W/kg



0 dB = 0.511 W/kg = -2.92 dBW/kg

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Date: 2013/5/12

### LE Cheek\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.551$  S/m;  $\epsilon_r = 36.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.308 W/kg

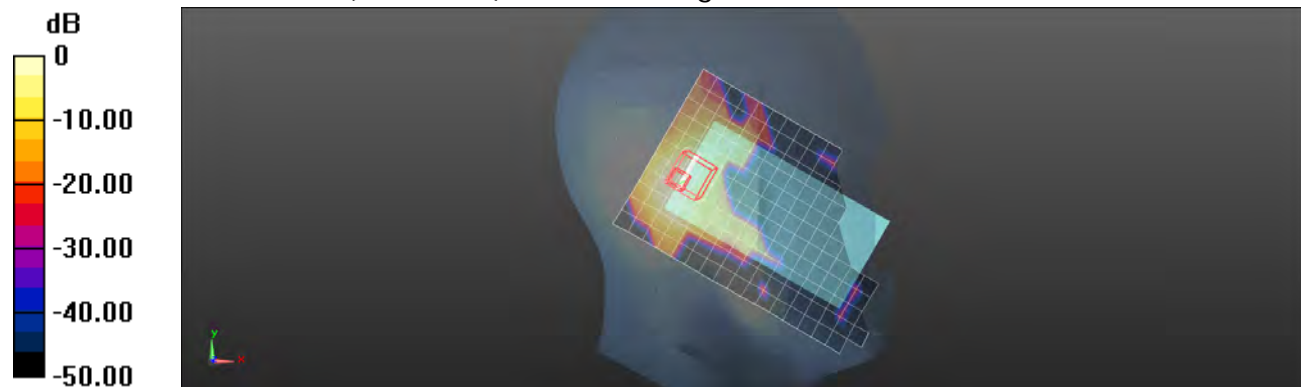
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.657 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.571 W/kg

**SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.060 W/kg**

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



0 dB = 0.331 W/kg = -4.80 dBW/kg

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Date: 2013/5/12

### LE Tilt\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.551$  S/m;  $\epsilon_r = 36.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.382 W/kg

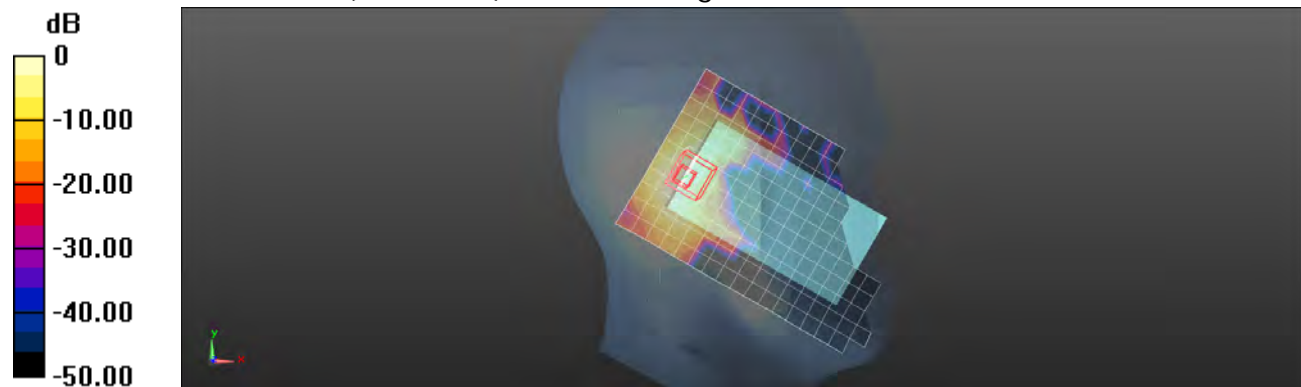
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.262 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.69 W/kg

**SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.076 W/kg**

Maximum value of SAR (measured) = 0.430 W/kg



0 dB = 0.430 W/kg = -3.67 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Front side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.273$  S/m;  $\epsilon_r = 49.602$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0612 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

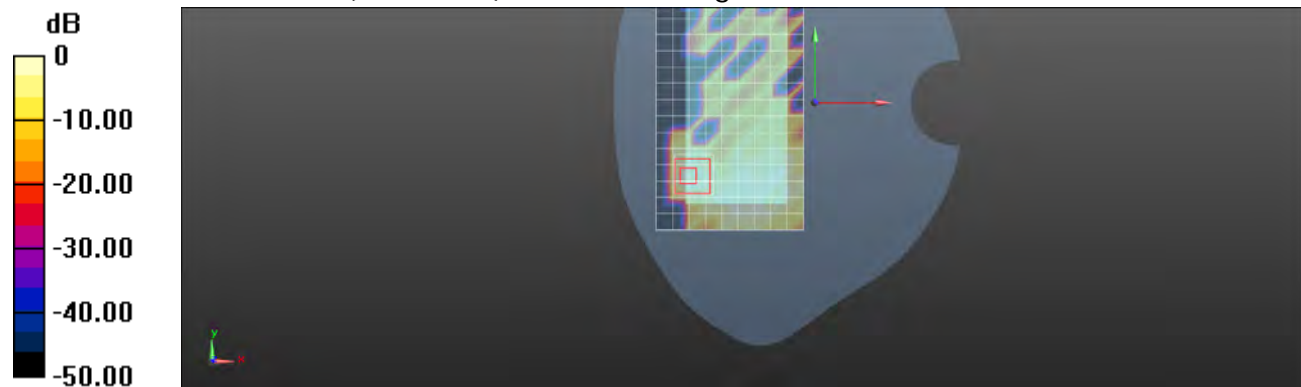
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.013 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.406 W/kg

#### SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.00981 W/kg

Maximum value of SAR (measured) = 0.0649 W/kg


 $0$  dB = 0.0649 W/kg = -11.88 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Back side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.273$  S/m;  $\epsilon_r = 49.602$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.176 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.192 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.499 W/kg

#### SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.202 W/kg


 $0 \text{ dB} = 0.202 \text{ W/kg} = -6.95 \text{ dBW/kg}$ 

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 5.273 \text{ S/m}$ ;  $\epsilon_r = 49.602$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

 $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 0.244 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

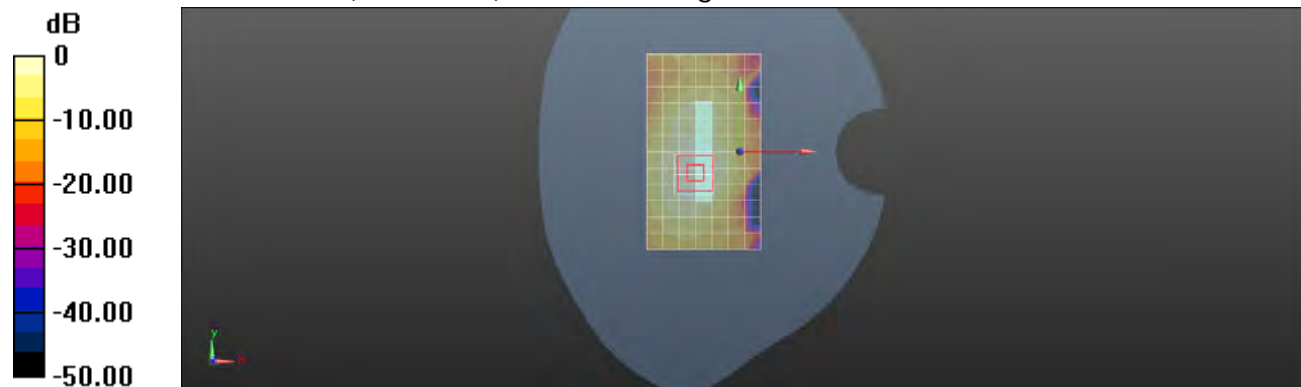
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 5.038 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.504 W/kg

#### SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.052 W/kg

Maximum value of SAR (measured) = 0.243 W/kg


 $0 \text{ dB} = 0.243 \text{ W/kg} = -6.14 \text{ dBW/kg}$ 

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11a 5.2G\_CH44

Communication System: WLAN 5G (FCC); Frequency: 5220 MHz

Medium parameters used:  $f = 5220$  MHz;  $\sigma = 5.337$  S/m;  $\epsilon_r = 49.516$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.255 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

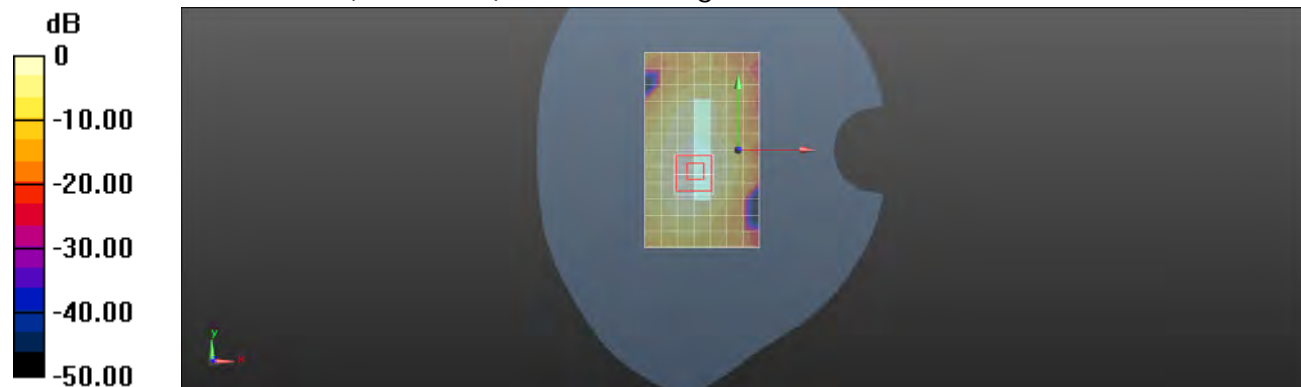
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 5.385 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.522 W/kg

#### SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.262 W/kg



0 dB = 0.262 W/kg = -5.82 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Left side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.273$  S/m;  $\epsilon_r = 49.602$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0928 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

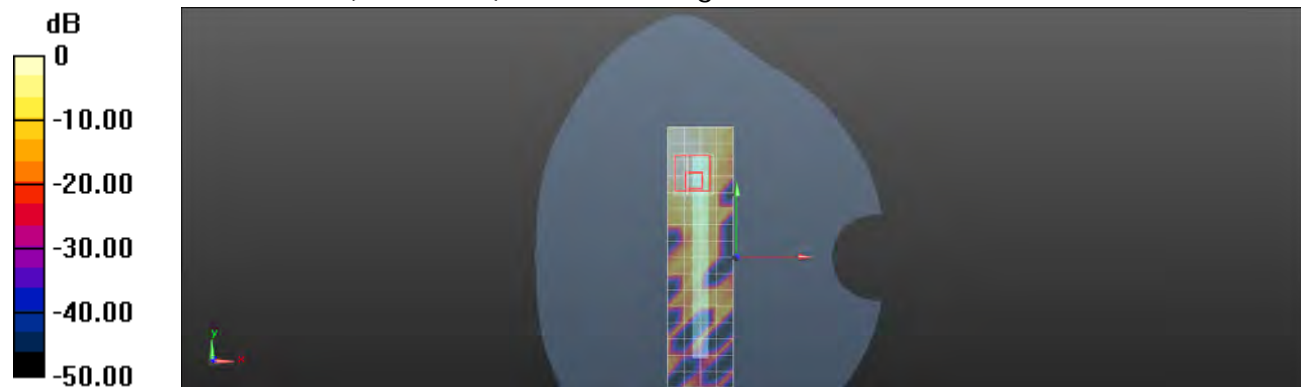
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.219 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.519 W/kg

#### SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.104 W/kg


 $0$  dB = 0.104 W/kg = -9.83 dBW/kg

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/12

### RE Cheek\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.551$  S/m;  $\epsilon_r = 36.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.396 W/kg

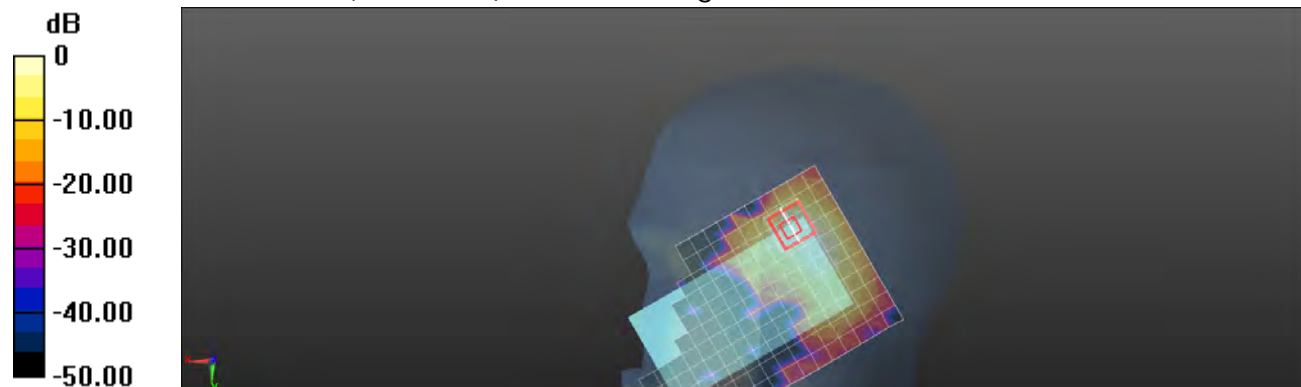
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.660 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.078 W/kg**

Maximum value of SAR (measured) = 0.488 W/kg



0 dB = 0.488 W/kg = -3.12 dBW/kg

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Date: 2013/5/12

### RE Tilt\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 4.551 \text{ S/m}$ ;  $\epsilon_r = 36.261$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.469 W/kg

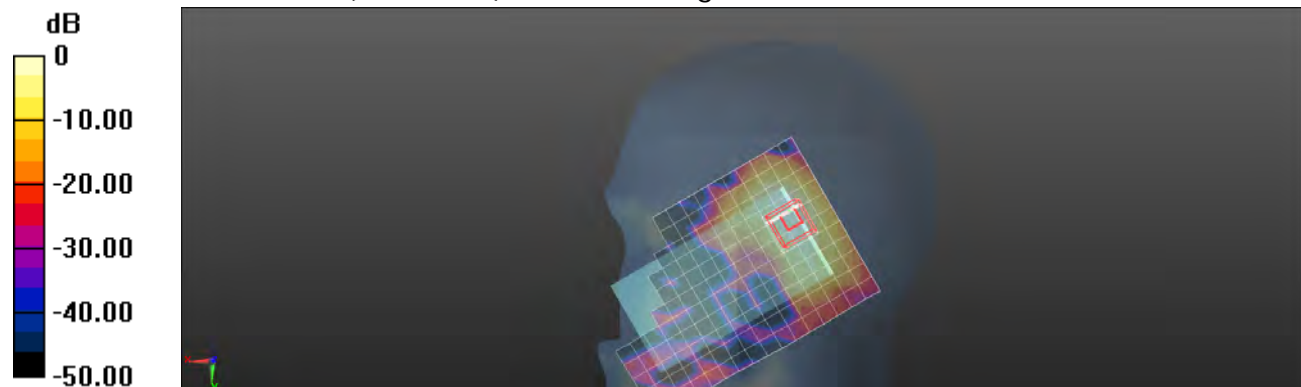
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 10.682 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.099 W/kg**

Maximum value of SAR (measured) = 0.554 W/kg



0 dB = 0.554 W/kg = -2.56 dBW/kg

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Date: 2013/5/12

### RE Tilt\_WLAN802.11n(20M) 5.2G\_CH48

Communication System: WLAN 5G (FCC); Frequency: 5240 MHz

Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 4.629 \text{ S/m}$ ;  $\epsilon_r = 36.144$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.617 W/kg

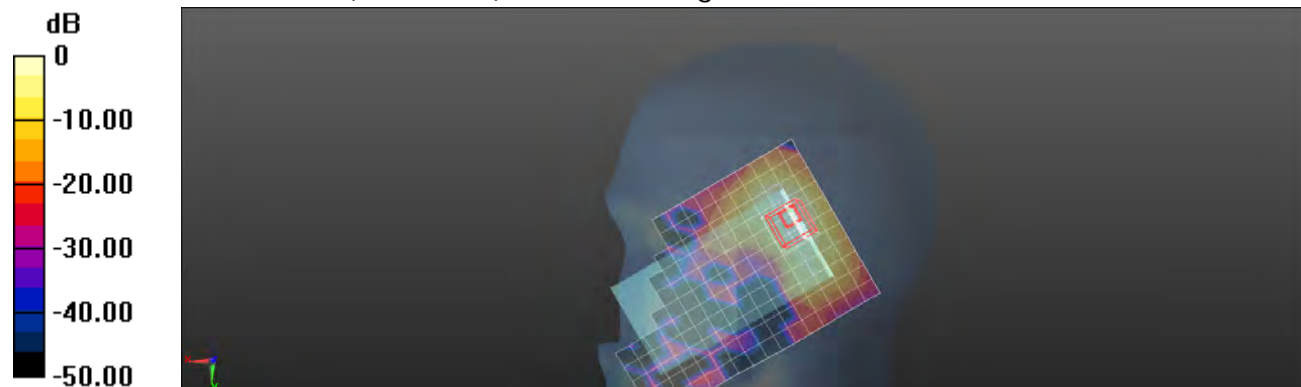
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 11.715 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.37 W/kg

**SAR(1 g) = 0.384 W/kg; SAR(10 g) = 0.132 W/kg**

Maximum value of SAR (measured) = 0.734 W/kg



0 dB = 0.734 W/kg = -1.34 dBW/kg

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Date: 2013/5/12

### LE Cheek\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 4.551 \text{ S/m}$ ;  $\epsilon_r = 36.261$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.401 W/kg

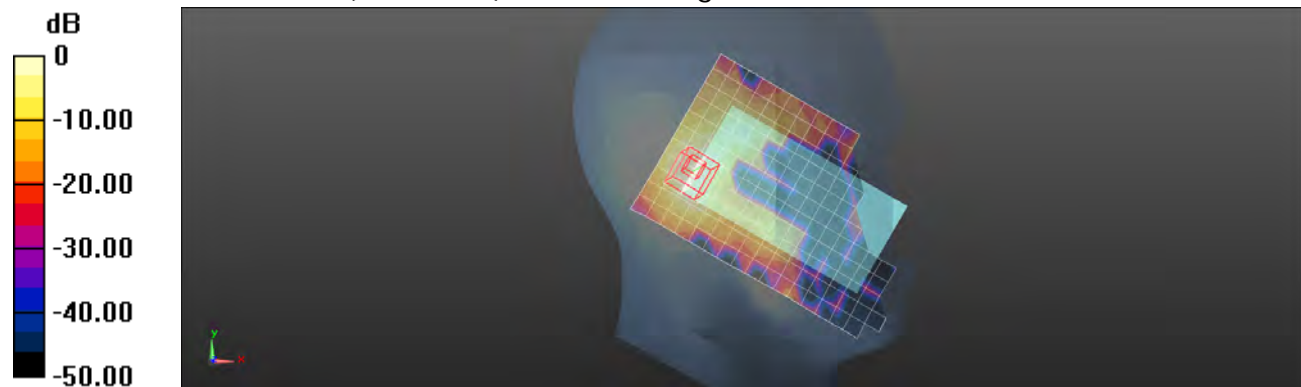
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 7.011 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.713 W/kg

**SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.079 W/kg**

Maximum value of SAR (measured) = 0.412 W/kg



0 dB = 0.412 W/kg = -3.85 dBW/kg

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Date: 2013/5/12

### LE Tilt\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.551$  S/m;  $\epsilon_r = 36.261$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.506 W/kg

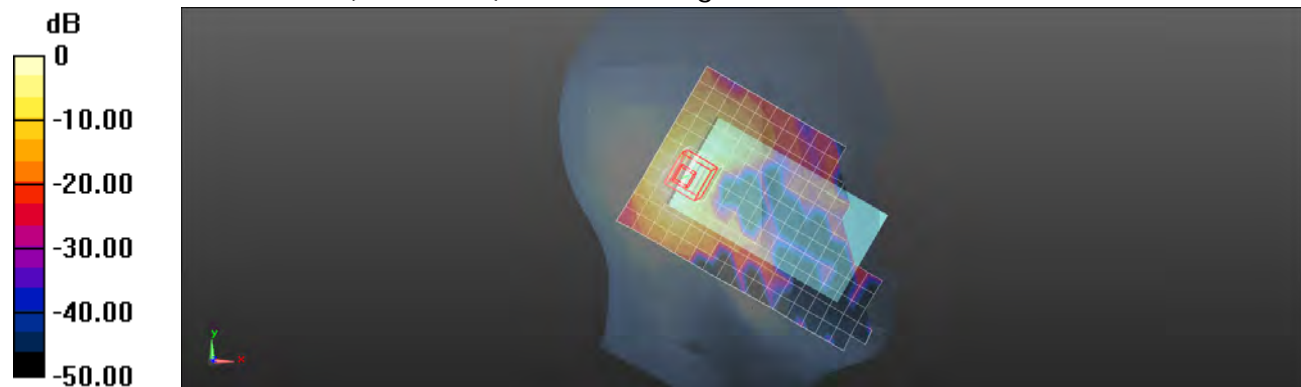
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.335 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.888 W/kg

**SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.097 W/kg**

Maximum value of SAR (measured) = 0.511 W/kg



0 dB = 0.511 W/kg = -2.92 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_ Front side\_ WLAN802.11n(20M)5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.273$  S/m;  $\epsilon_r = 49.602$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0449 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

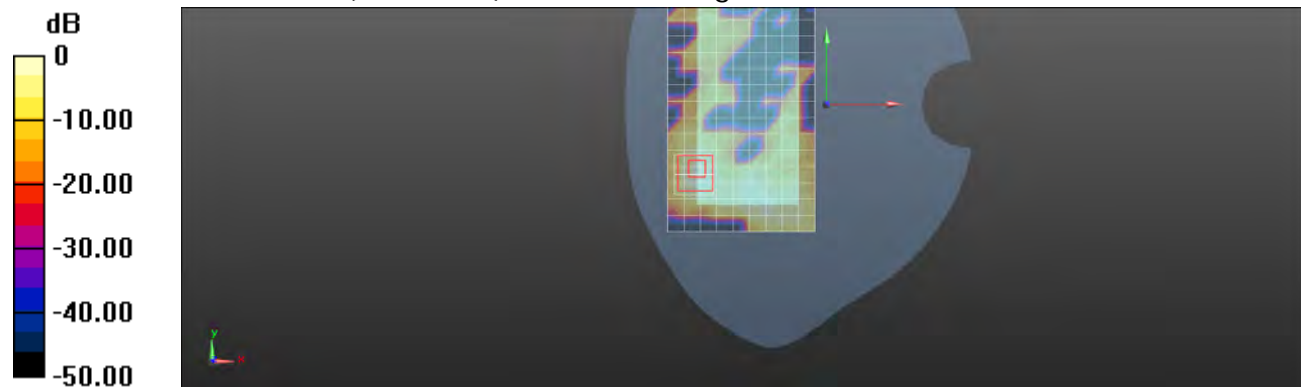
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.729 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.214 W/kg

#### SAR(1 g) = 0.020 W/kg; SAR(10 g) = 0.00602 W/kg

Maximum value of SAR (measured) = 0.0477 W/kg


 $0$  dB = 0.0477 W/kg = -13.21 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_ Back side\_WLAN802.11n(20M)5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.273$  S/m;  $\epsilon_r = 49.602$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.112 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

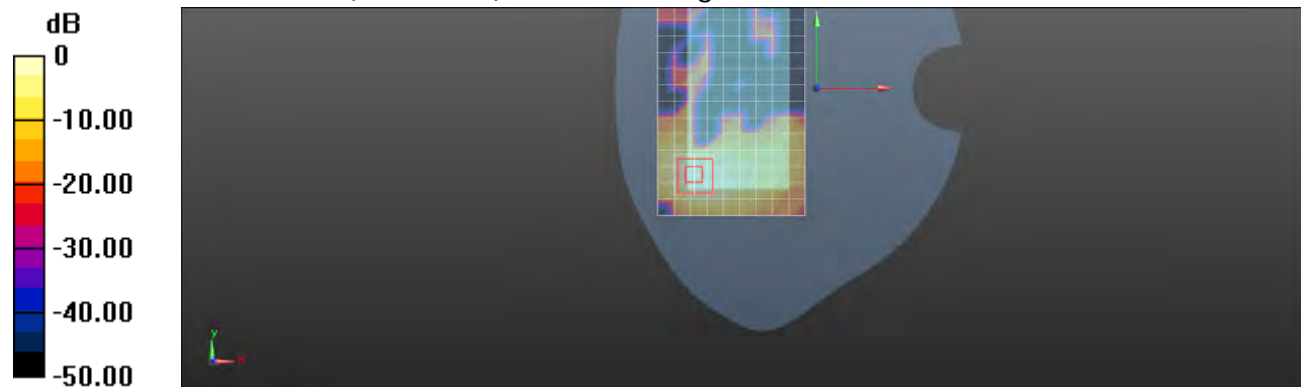
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.612 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.274 W/kg

#### SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.024 W/kg

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


 $0$  dB = 0.148 W/kg = -8.30 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.273$  S/m;  $\epsilon_r = 49.602$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.179 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

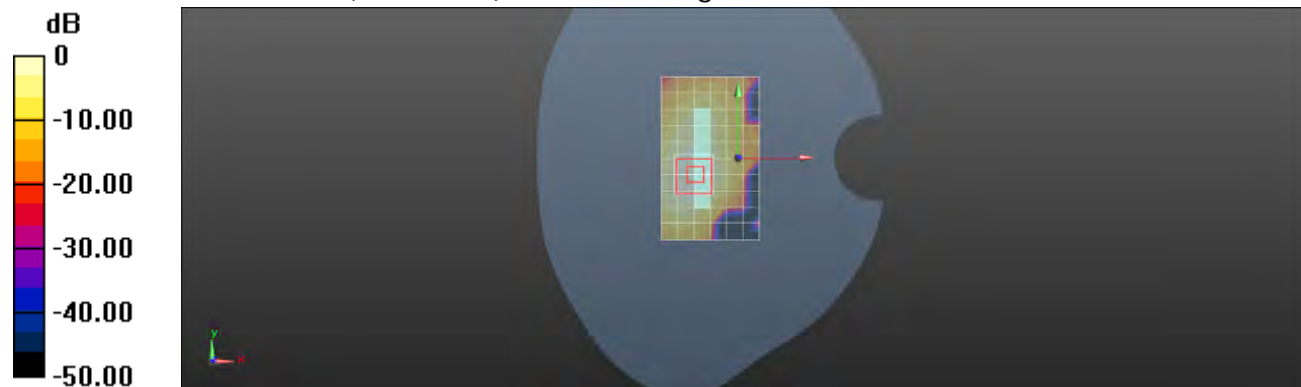
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.476 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.350 W/kg

#### SAR(1 g) = 0.095 W/kg; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.176 W/kg


 $0$  dB = 0.176 W/kg = -7.54 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11n(20M) 5.2G\_CH48

Communication System: WLAN 5G (FCC); Frequency: 5240 MHz

 Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 5.363 \text{ S/m}$ ;  $\epsilon_r = 49.48$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 0.276 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

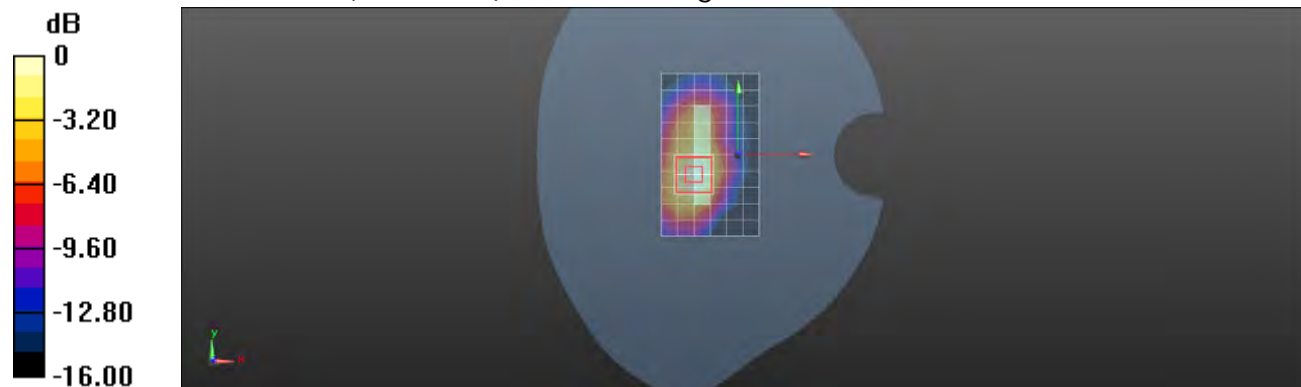
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 5.633 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.567 W/kg

#### SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.058 W/kg

Maximum value of SAR (measured) = 0.283 W/kg


 $0 \text{ dB} = 0.283 \text{ W/kg} = -5.48 \text{ dBW/kg}$ 

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Date: 2013/5/17

### Hotspot mode\_Left side\_WLAN802.11n(20M) 5.2G\_CH36

Communication System: WLAN 5G (FCC); Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 5.273$  S/m;  $\epsilon_r = 49.602$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0700 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.896 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.351 W/kg

#### SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0751 W/kg



0 dB = 0.0751 W/kg = -11.24 dBW/kg

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Date: 2013/5/12

### RE Cheek\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.564$  S/m;  $\epsilon_r = 35.245$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.345 W/kg

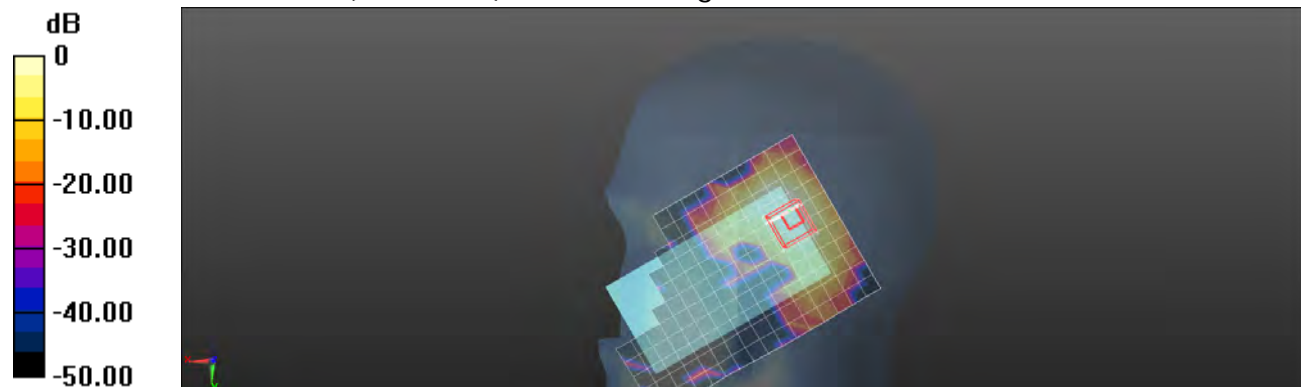
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.699 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.658 W/kg

**SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.064 W/kg**

Maximum value of SAR (measured) = 0.360 W/kg



0 dB = 0.360 W/kg = -4.44 dBW/kg

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Date: 2013/5/12

### RE Tilt\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.564$  S/m;  $\epsilon_r = 35.245$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.394 W/kg

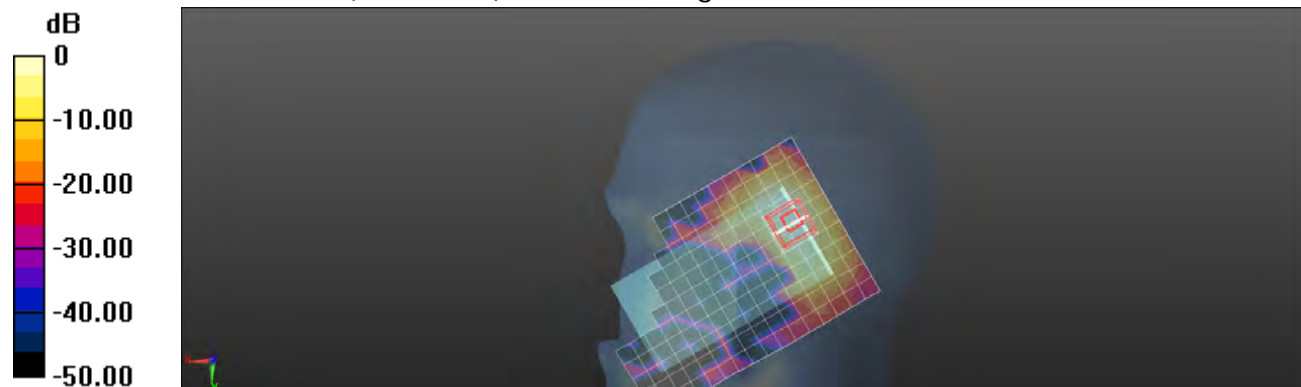
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.802 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.854 W/kg

**SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.081 W/kg**

Maximum value of SAR (measured) = 0.461 W/kg



0 dB = 0.461 W/kg = -3.36 dBW/kg

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Date: 2013/5/12

### RE Tilt\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.616 \text{ S/m}$ ;  $\epsilon_r = 36.163$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.441 W/kg

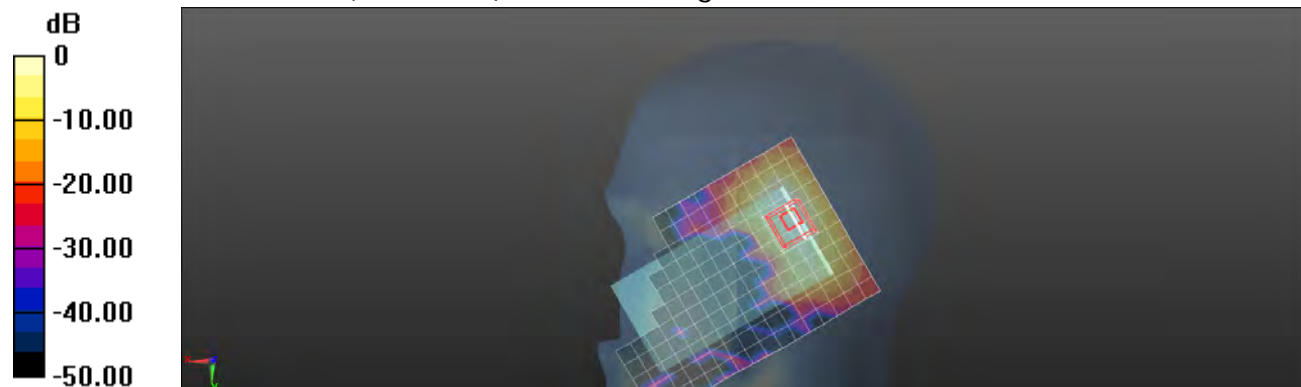
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 9.920 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.984 W/kg

**SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.094 W/kg**

Maximum value of SAR (measured) = 0.529 W/kg



0 dB = 0.529 W/kg = -2.77 dBW/kg

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Date: 2013/5/12

### LE Cheek\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.564$  S/m;  $\epsilon_r = 35.245$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.288 W/kg

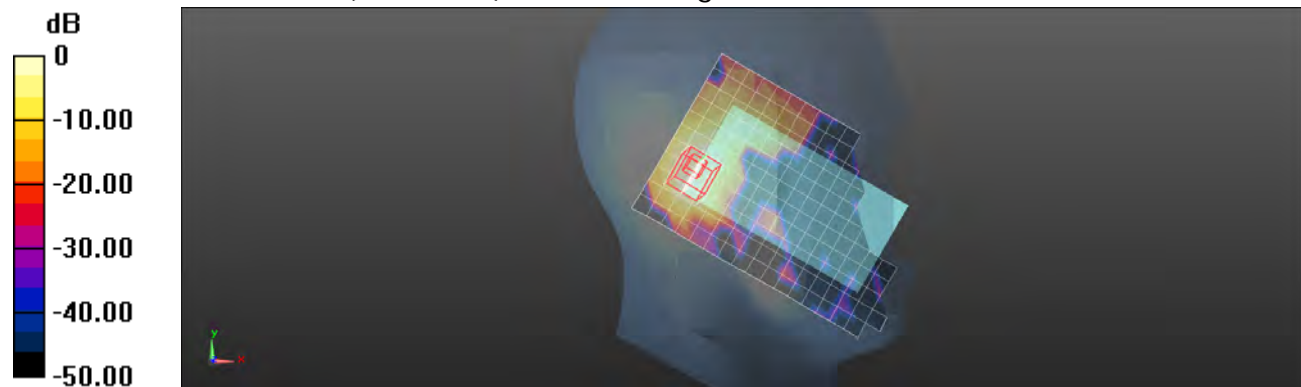
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.651 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.528 W/kg

**SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.058 W/kg**

Maximum value of SAR (measured) = 0.299 W/kg



0 dB = 0.299 W/kg = -5.24 dBW/kg

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Date: 2013/5/12

### LE Tilt\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.564$  S/m;  $\epsilon_r = 35.245$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.366 W/kg

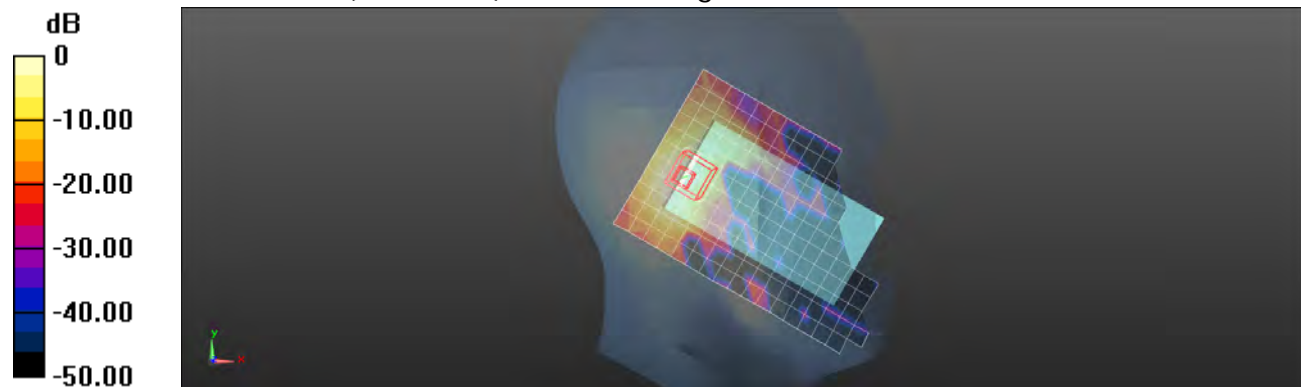
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.164 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.716 W/kg

**SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.070 W/kg**

Maximum value of SAR (measured) = 0.396 W/kg



0 dB = 0.396 W/kg = -4.02 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_ Front side\_WLAN802.11n(40M)5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

Medium parameters used:  $f = 5190$  MHz;  $\sigma = 5.288$  S/m;  $\epsilon_r = 49.578$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0332 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

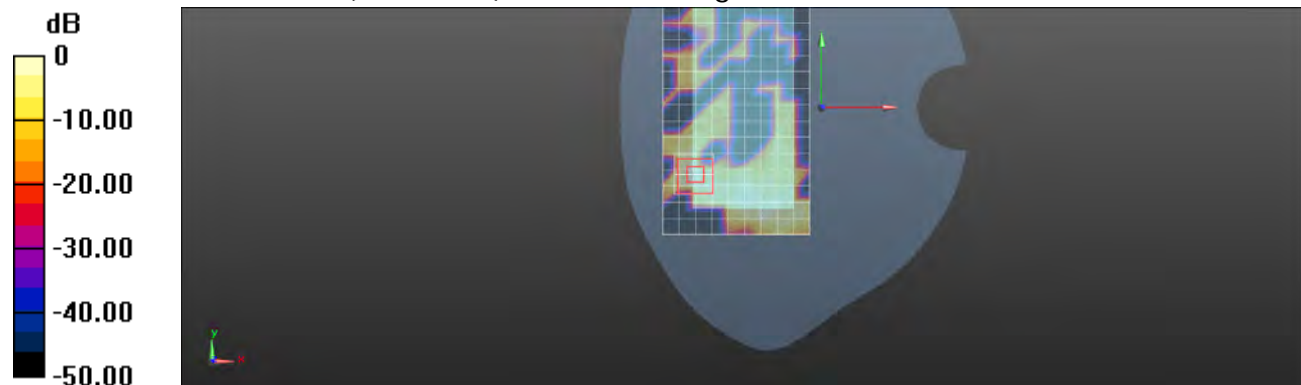
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.232V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.299 W/kg

#### SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.00572 W/kg

Maximum value of SAR (measured) = 0.0391 W/kg



0 dB = 0.0391 W/kg = -14.08 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_ Back side\_WLAN802.11n(40M)5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

Medium parameters used:  $f = 5190$  MHz;  $\sigma = 5.288$  S/m;  $\epsilon_r = 49.578$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.114 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

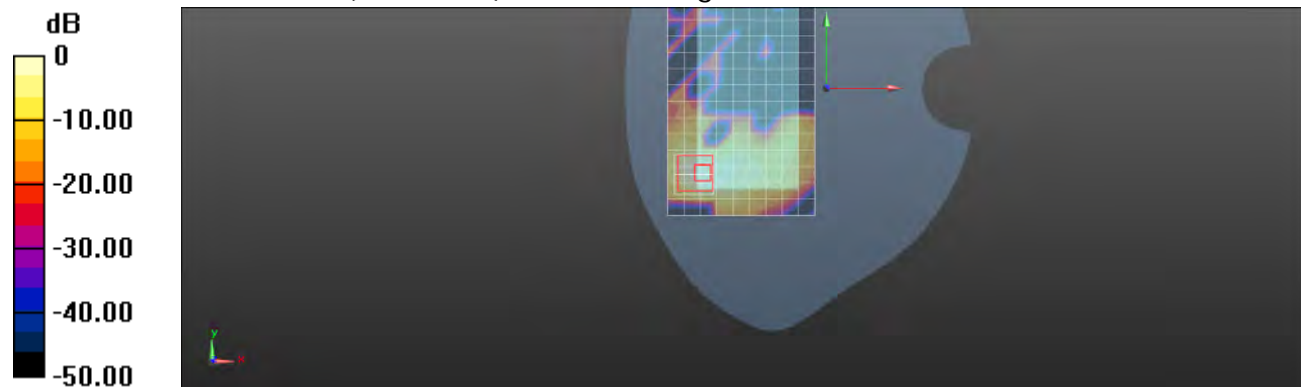
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.331 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.241 W/kg

#### SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.132 W/kg



0 dB = 0.132 W/kg = -8.79 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 5.288$  S/m;  $\epsilon_r = 49.578$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.149 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

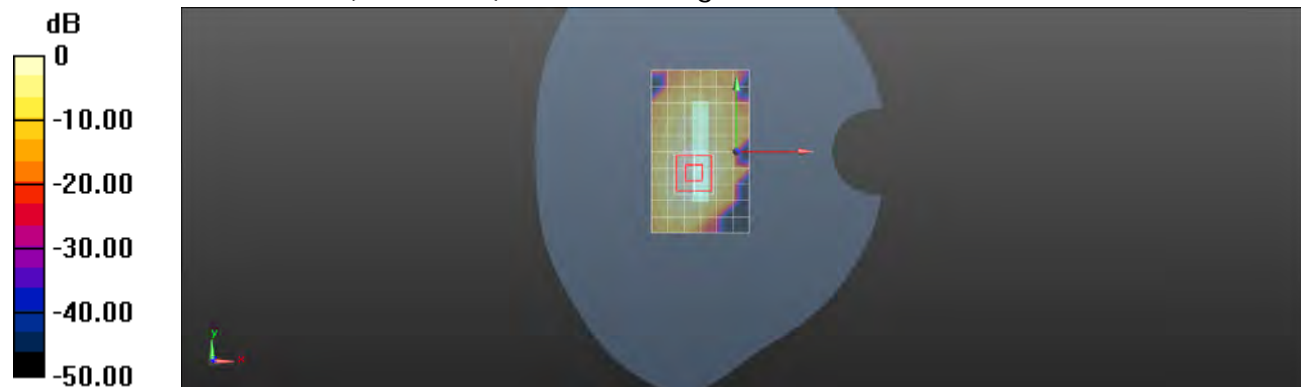
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.182 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.317 W/kg

#### SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.031 W/kg

Maximum value of SAR (measured) = 0.166 W/kg


 $0$  dB = 0.166 W/kg = -7.80 dBW/kg

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G (FCC); Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 5.351 \text{ S/m}$ ;  $\epsilon_r = 49.501$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.178 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

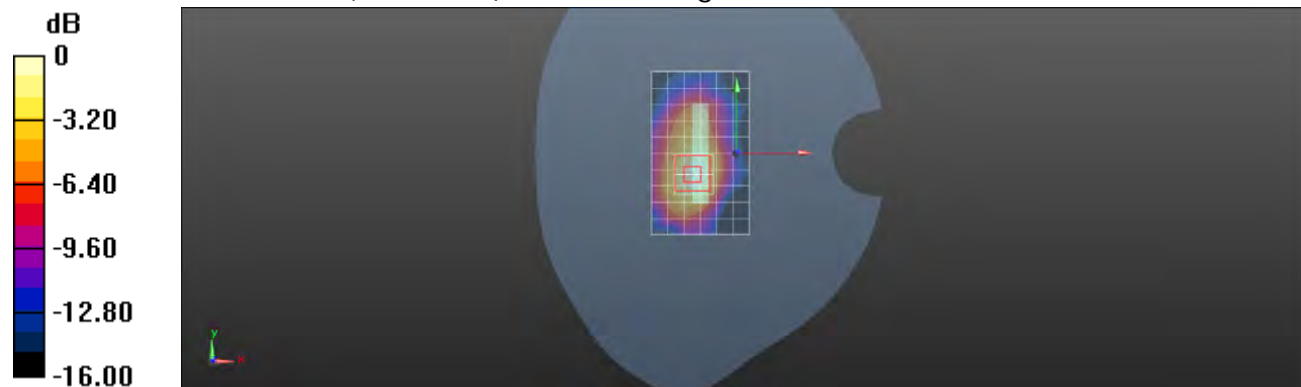
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.714 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.399 W/kg

#### SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.200 W/kg



0 dB = 0.200 W/kg = -6.99 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Left side\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G (FCC); Frequency: 5190 MHz

 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 5.288$  S/m;  $\epsilon_r = 49.578$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0568 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

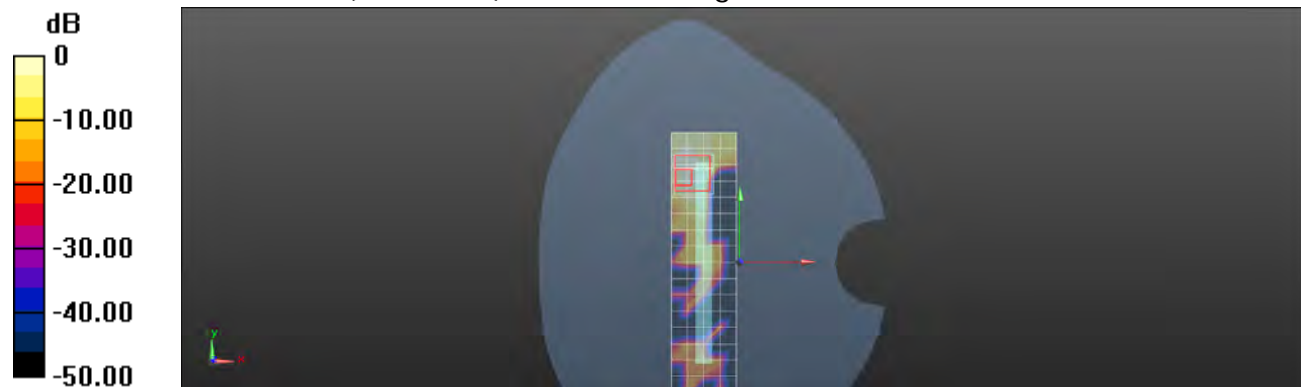
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.828 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.363 W/kg

#### SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0673 W/kg


 $0$  dB = 0.0673 W/kg = -11.72 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/12

## RE Cheek\_WLAN802.11a 5.3G\_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

 Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.682$  S/m;  $\epsilon_r = 36.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.654 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.681 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.148 W/kg**

Maximum value of SAR (measured) = 0.763 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 1:** Measurement grid:

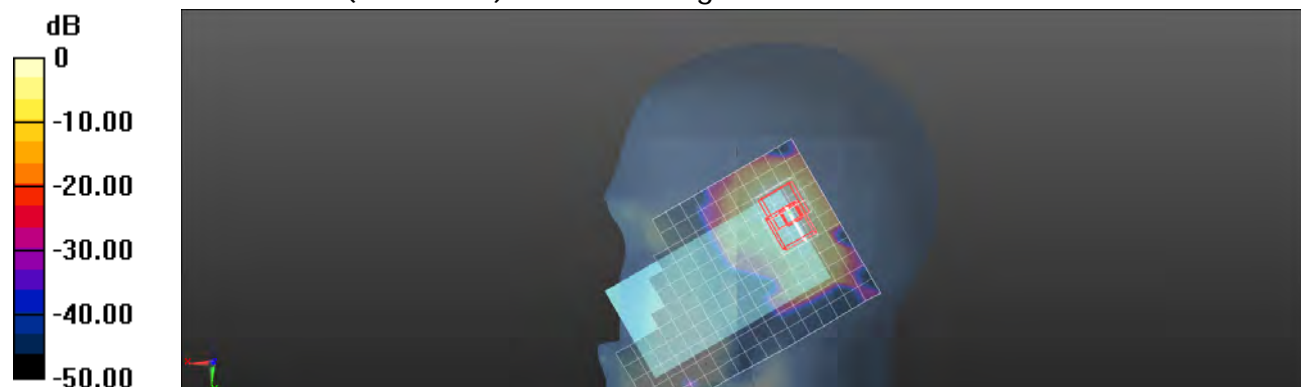
dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.681 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.34 W/kg

**SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.134 W/kg**

Maximum value of SAR (measured) = 0.762 W/kg



0 dB = 0.762 W/kg = -1.18 dBW/kg

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Date: 2013/5/12

## RE Tilt\_WLAN802.11a 5.3G\_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.682$  S/m;  $\epsilon_r = 36.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.815 W/kg

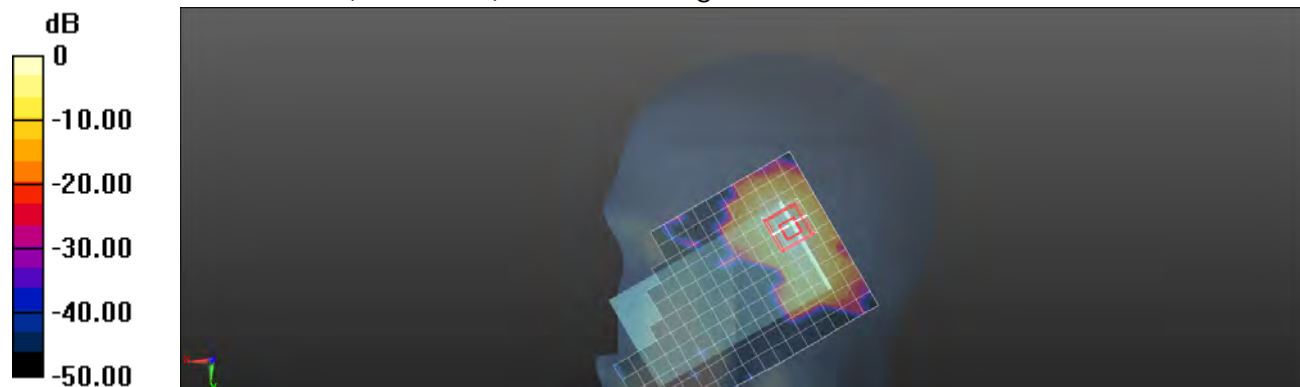
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.369 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.64 W/kg

**SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.159 W/kg**

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



0 dB = 0.903 W/kg = -0.44 dBW/kg

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Date: 2013/5/12

## RE Tilt\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.709$  S/m;  $\epsilon_r = 36.028$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.983 W/kg

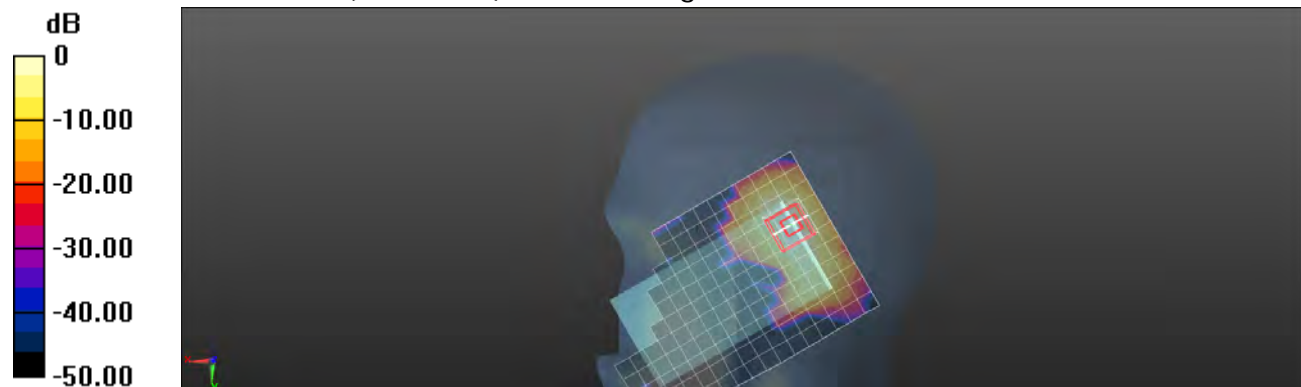
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.894 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.98 W/kg

**SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.195 W/kg**

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

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Date: 2013/5/12

### LE Cheek\_WLAN802.11a 5.3G\_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.682$  S/m;  $\epsilon_r = 36.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.631 W/kg

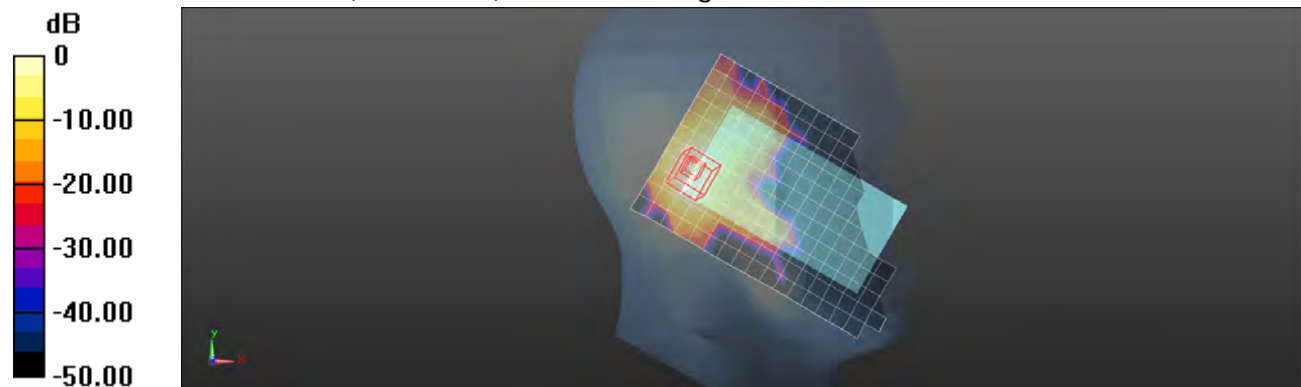
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.282 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.127 W/kg**

Maximum value of SAR (measured) = 0.643 W/kg



0 dB = 0.643 W/kg = -1.92 dBW/kg

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Date: 2013/5/12

### LE Tilt\_WLAN802.11a 5.3G\_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used:  $f = 5280$  MHz;  $\sigma = 4.682$  S/m;  $\epsilon_r = 36.068$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.793 W/kg

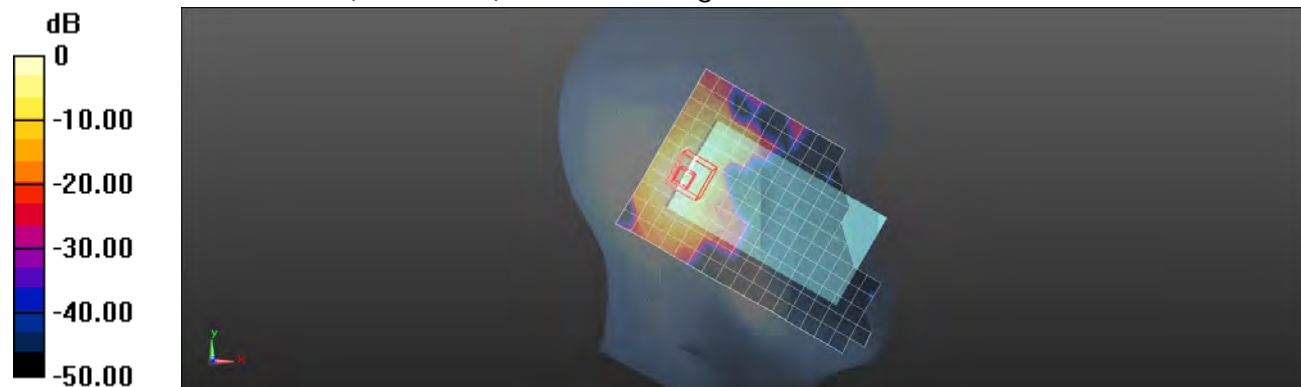
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.067 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.435 W/kg; SAR(10 g) = 0.147 W/kg**

Maximum value of SAR (measured) = 0.818 W/kg



0 dB = 0.818 W/kg = -0.87 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Front side\_WLAN802.11a 5.3G\_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

 Medium parameters used:  $f = 5280$  MHz;  $\sigma = 5.418$  S/m;  $\epsilon_r = 49.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0914 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.802 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.363 W/kg

#### SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0855 W/kg


 $0$  dB = 0.0855 W/kg = -10.68 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Back side\_WLAN802.11a 5.3G\_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used:  $f = 5280$  MHz;  $\sigma = 5.418$  S/m;  $\epsilon_r = 49.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.270 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

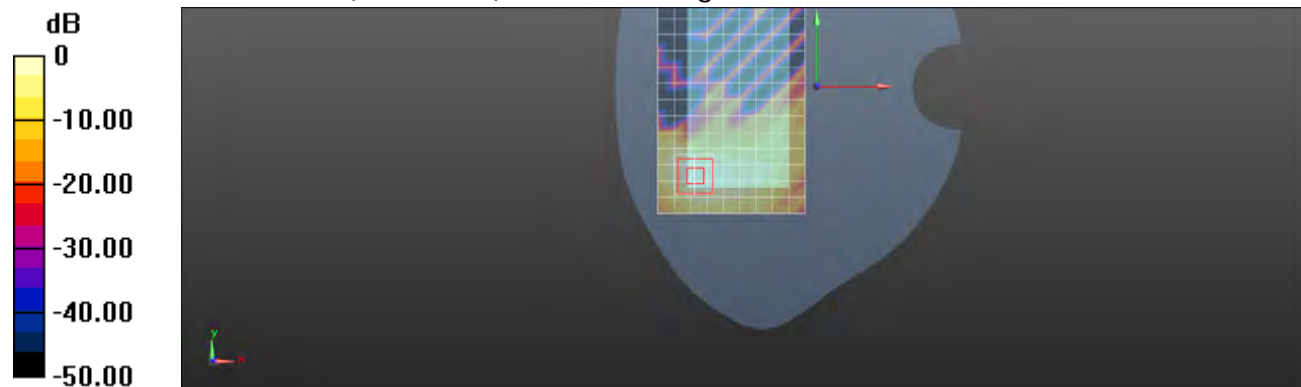
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.784 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.711 W/kg

#### SAR(1 g) = 0.169 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.341 W/kg



0 dB = 0.341 W/kg = -4.67 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11a 5.3G\_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

 Medium parameters used:  $f = 5280$  MHz;  $\sigma = 5.418$  S/m;  $\epsilon_r = 49.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.309 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

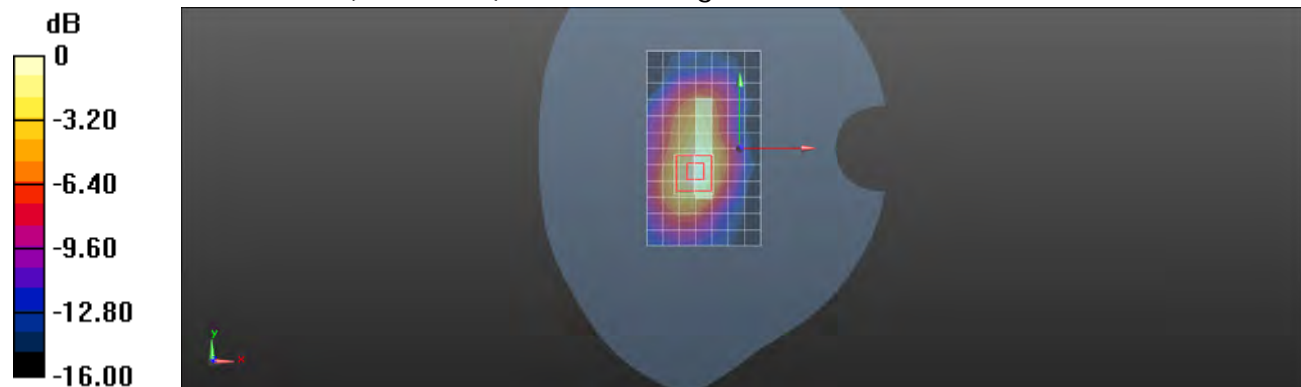
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 5.923 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.709 W/kg

#### SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.066 W/kg

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


 $0$  dB = 0.325 W/kg = -4.88 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G (FCC); Frequency: 5300 MHz

 Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.443$  S/m;  $\epsilon_r = 49.321$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.371 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

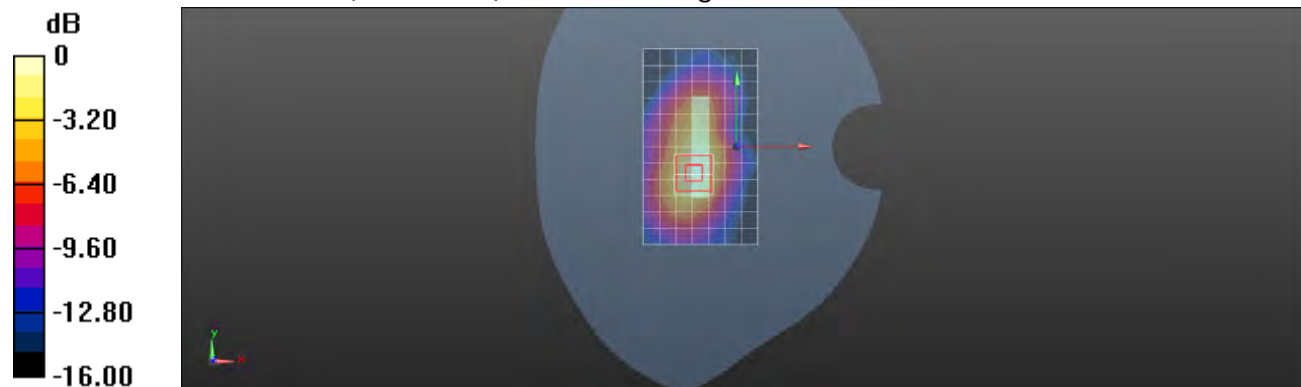
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 6.512 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.813 W/kg

#### SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.080 W/kg

Maximum value of SAR (measured) = 0.386 W/kg


 $0$  dB = 0.386 W/kg = -4.13 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Left side\_WLAN802.11a 5.3G\_CH56

Communication System: WLAN 5G (FCC); Frequency: 5280 MHz

Medium parameters used:  $f = 5280$  MHz;  $\sigma = 5.418$  S/m;  $\epsilon_r = 49.382$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.186 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

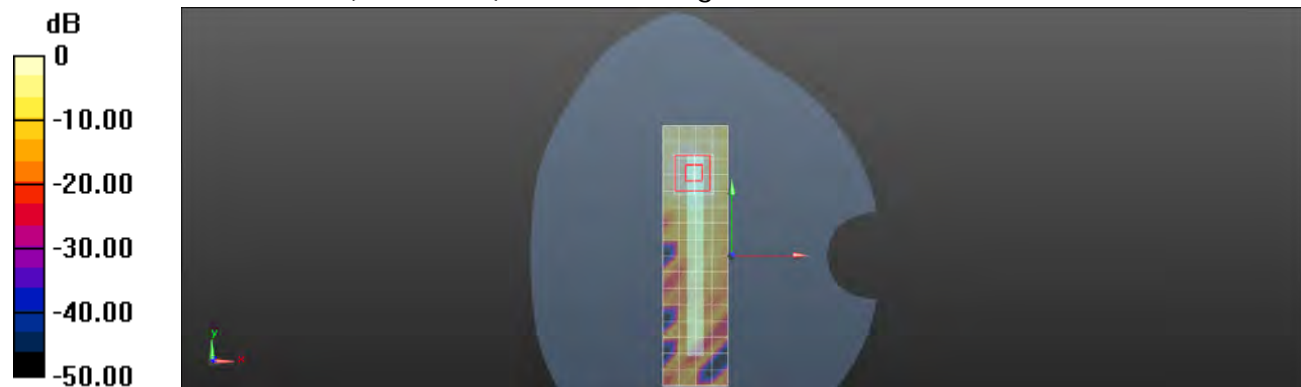
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.670 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.334 W/kg

#### SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.029 W/kg

Maximum value of SAR (measured) = 0.177 W/kg



0 dB = 0.177 W/kg = -7.52 dBW/kg

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Date: 2013/5/12

## RE Cheek\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 4.656 \text{ S/m}$ ;  $\epsilon_r = 36.107$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.569 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 10.205 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.130 W/kg**

Maximum value of SAR (measured) = 0.663 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 1:** Measurement grid:

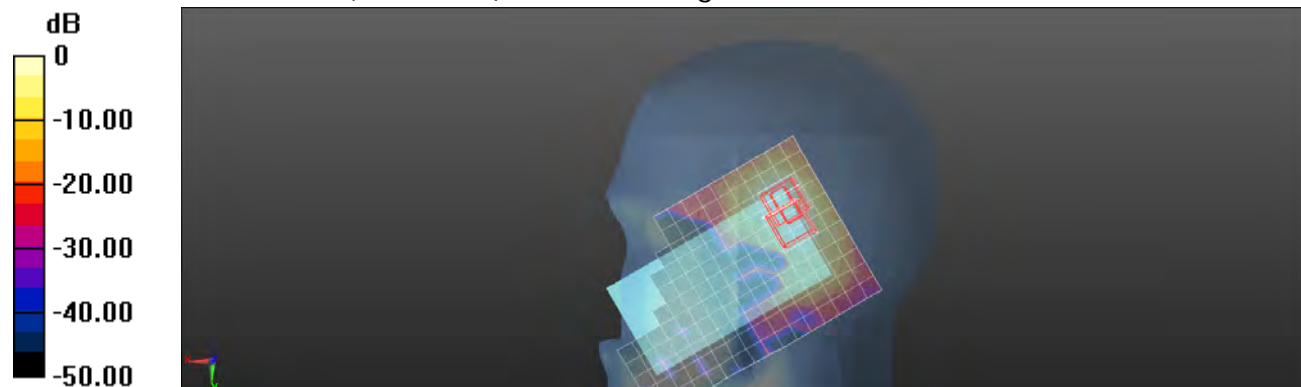
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 10.205 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.114 W/kg**

Maximum value of SAR (measured) = 0.652 W/kg



0 dB = 0.652 W/kg = -1.86 dBW/kg

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Date: 2013/5/12

### RE Tilt\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 4.656 \text{ S/m}$ ;  $\epsilon_r = 36.107$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.648 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 11.488 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.405 W/kg; SAR(10 g) = 0.138 W/kg**

Maximum value of SAR (measured) = 0.776 W/kg

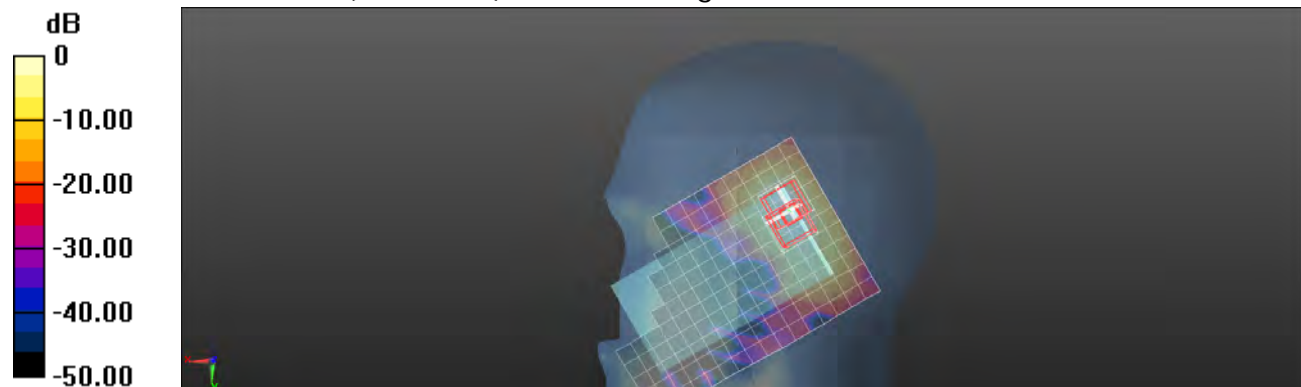
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 1:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 11.488 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.140 W/kg**

Maximum value of SAR (measured) = 0.795 W/kg



0 dB = 0.795 W/kg = -1.00 dBW/kg

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Date: 2013/5/12

### RE Tilt\_WLAN802.11n(20M) 5.3G\_CH64

Communication System: WLAN 5G (FCC); Frequency: 5320 MHz

 Medium parameters used:  $f = 5320 \text{ MHz}$ ;  $\sigma = 4.735 \text{ S/m}$ ;  $\epsilon_r = 35.983$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.827 W/kg

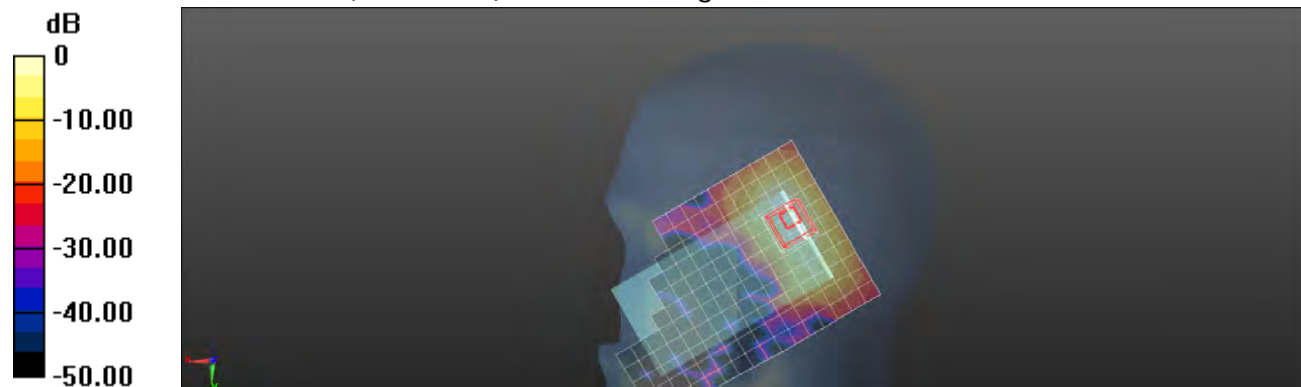
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 12.872 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.90 W/kg

**SAR(1 g) = 0.524 W/kg; SAR(10 g) = 0.182 W/kg**

Maximum value of SAR (measured) = 0.993 W/kg



0 dB = 0.993 W/kg = -0.03 dBW/kg

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Date: 2013/5/12

### LE Cheek\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.656$  S/m;  $\epsilon_r = 36.107$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.572 W/kg

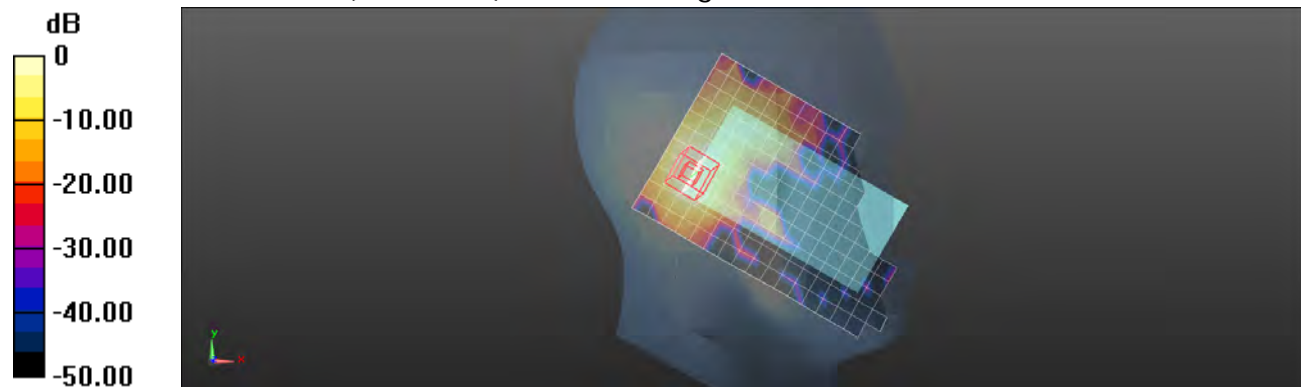
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.784 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.999 W/kg

**SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.116 W/kg**

Maximum value of SAR (measured) = 0.580 W/kg



0 dB = 0.580 W/kg = -2.37 dBW/kg

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Date: 2013/5/12

### LE Tilt\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.656$  S/m;  $\epsilon_r = 36.107$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.662 W/kg

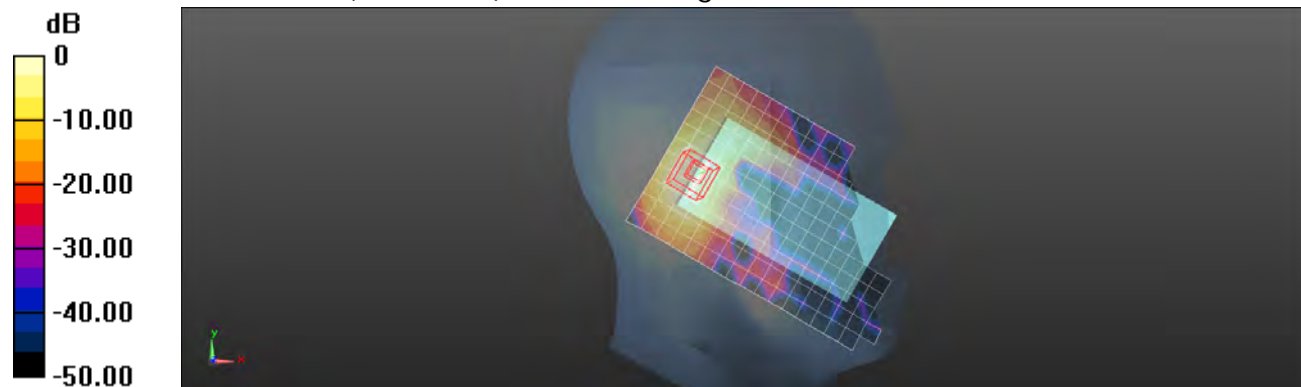
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.764 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.24 W/kg

**SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.143 W/kg**

Maximum value of SAR (measured) = 0.678 W/kg



0 dB = 0.678 W/kg = -1.69 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_ Front side\_WLAN802.11n(20M)5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.391$  S/m;  $\epsilon_r = 49.432$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0672 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.179 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.206 W/kg

#### SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.010 W/kg

Maximum value of SAR (measured) = 0.0838 W/kg



0 dB = 0.0838 W/kg = -10.77 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_ Back side\_WLAN802.11n(20M)5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 5.391 \text{ S/m}$ ;  $\epsilon_r = 49.432$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.239 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

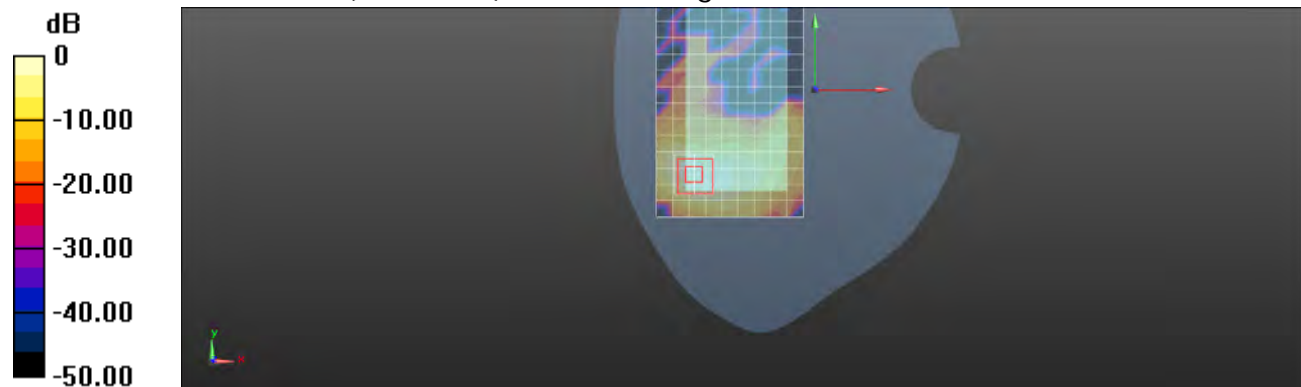
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.21 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.599 W/kg

#### SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.044 W/kg

Maximum value of SAR (measured) = 0.277 W/kg



0 dB = 0.277 W/kg = -5.58 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.391$  S/m;  $\epsilon_r = 49.432$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.242 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

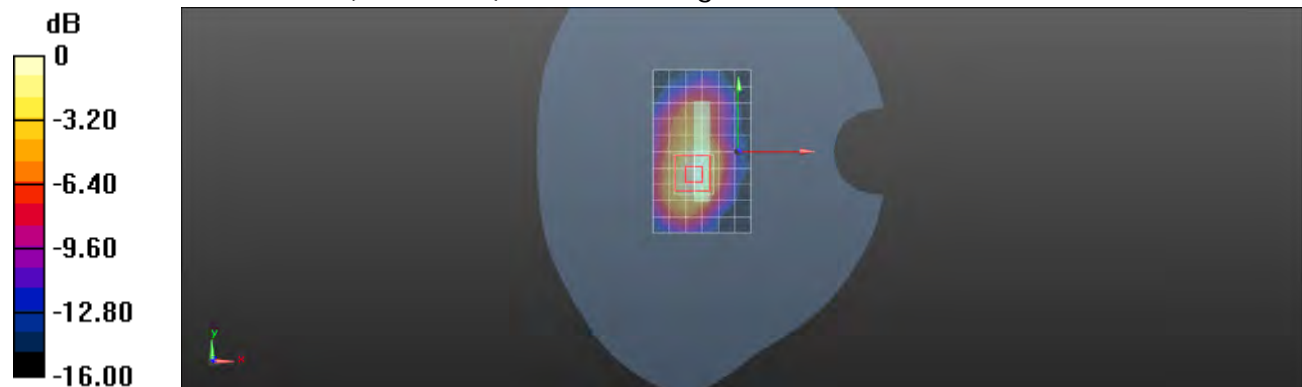
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 5.212 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.593 W/kg

#### SAR(1 g) = 0.151 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.285 W/kg


 $0$  dB = 0.285 W/kg = -5.45 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11n(20M) 5.3G\_CH64

Communication System: WLAN 5G (FCC); Frequency: 5320 MHz

Medium parameters used:  $f = 5320 \text{ MHz}$ ;  $\sigma = 5.477 \text{ S/m}$ ;  $\epsilon_r = 48.28$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.342 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

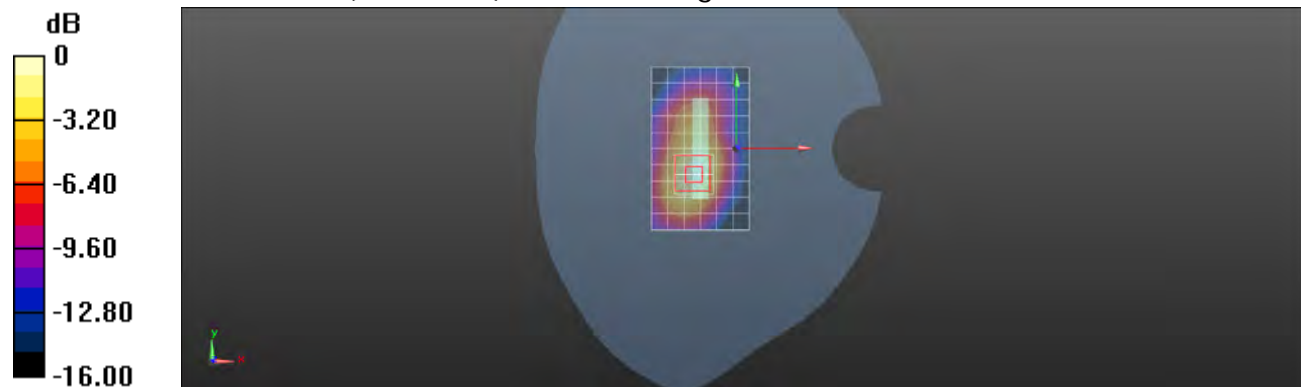
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.374 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.775 W/kg

#### SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.079 W/kg

Maximum value of SAR (measured) = 0.389 W/kg



0 dB = 0.389 W/kg = -4.10 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Left side\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G (FCC); Frequency: 5260 MHz

 Medium parameters used:  $f = 5260$  MHz;  $\sigma = 5.391$  S/m;  $\epsilon_r = 49.432$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.117 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

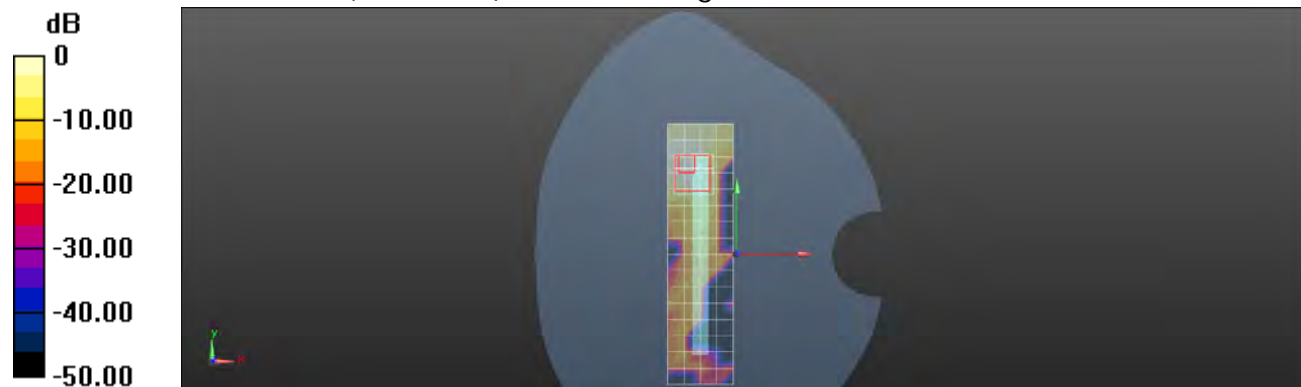
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.190 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.310 W/kg

#### SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.128 W/kg


 $0$  dB = 0.128 W/kg = -8.93 dBW/kg

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Date: 2013/5/12

### RE Cheek\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270 \text{ MHz}$ ;  $\sigma = 4.669 \text{ S/m}$ ;  $\epsilon_r = 36.08$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.471 W/kg

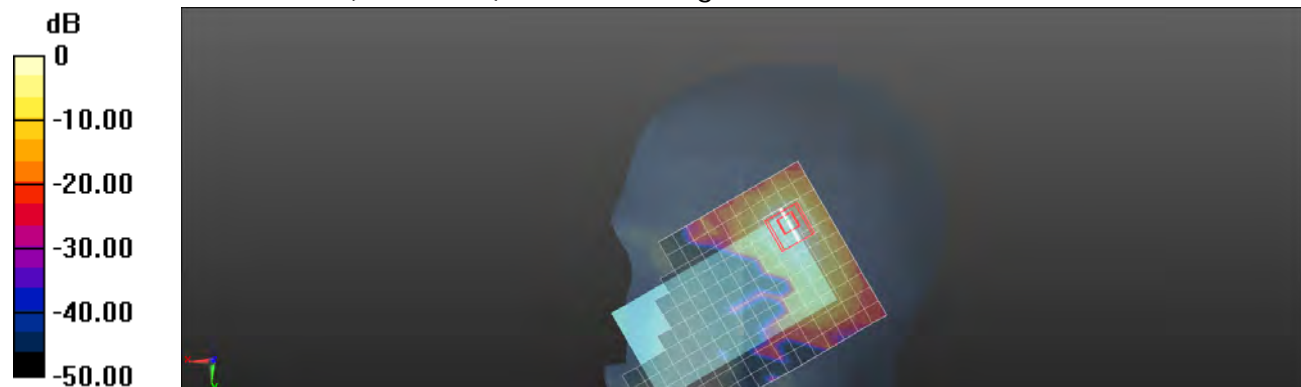
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 9.284 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.105 W/kg**

Maximum value of SAR (measured) = 0.551 W/kg



0 dB = 0.551 W/kg = -2.59 dBW/kg

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Date: 2013/5/12

## RE Tilt\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

 Medium parameters used:  $f = 5270 \text{ MHz}$ ;  $\sigma = 4.669 \text{ S/m}$ ;  $\epsilon_r = 36.08$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.541 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 10.463 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.110 W/kg**

Maximum value of SAR (measured) = 0.635 W/kg

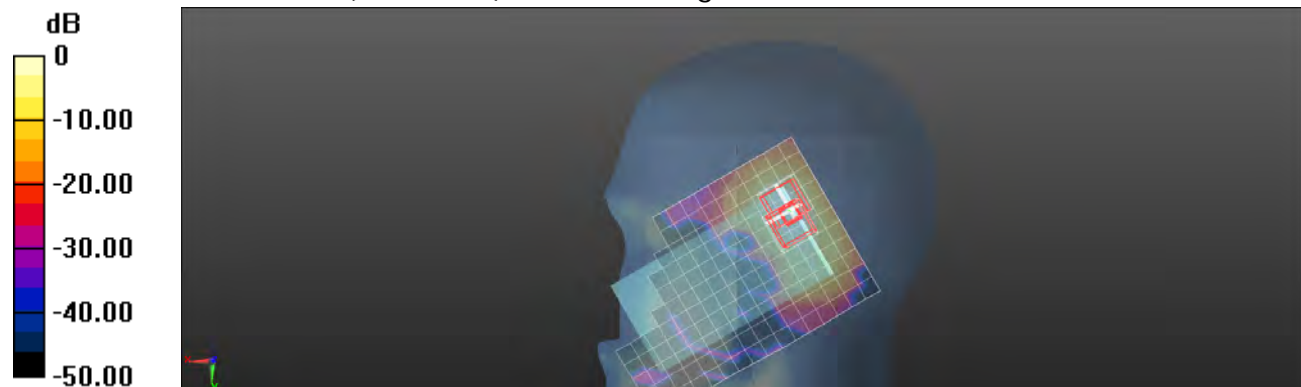
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 1:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 10.463 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.114 W/kg**

Maximum value of SAR (measured) = 0.651 W/kg



0 dB = 0.651 W/kg = -1.86 dBW/kg

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Date: 2013/5/12

### RE Tilt\_WLAN802.11n(40M) 5.3G\_CH62

Communication System: WLAN 5G (FCC); Frequency: 5310 MHz

 Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 4.722 \text{ S/m}$ ;  $\epsilon_r = 36.011$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.572 W/kg

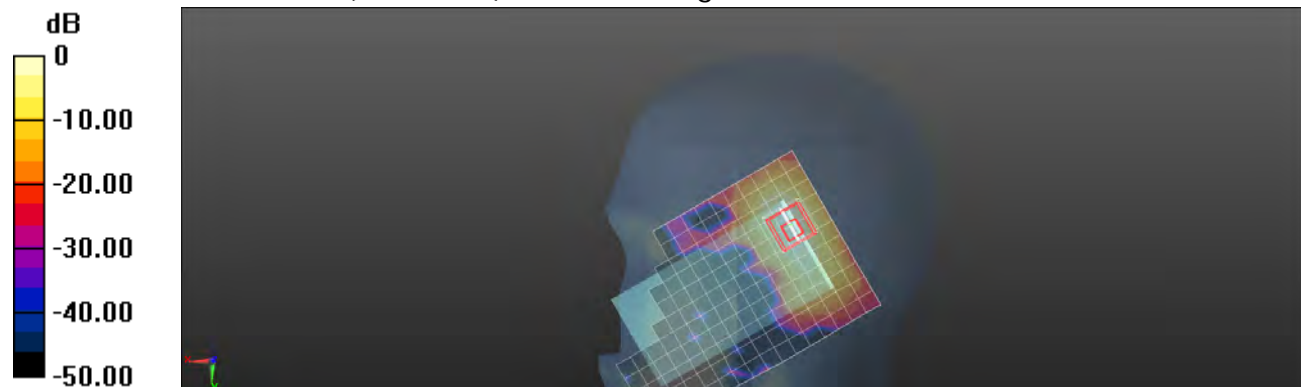
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 9.756 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.25 W/kg

**SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.116 W/kg**

Maximum value of SAR (measured) = 0.678 W/kg



0 dB = 0.678 W/kg = -1.69 dBW/kg

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Date: 2013/5/12

### LE Cheek\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270 \text{ MHz}$ ;  $\sigma = 4.669 \text{ S/m}$ ;  $\epsilon_r = 36.08$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.458 W/kg

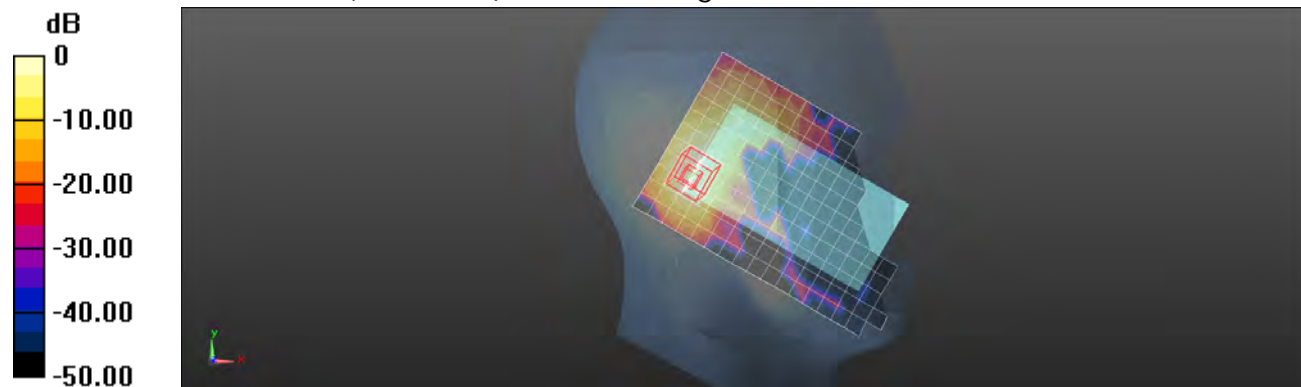
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 7.606 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.825 W/kg

**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.090 W/kg**

Maximum value of SAR (measured) = 0.471 W/kg



0 dB = 0.471 W/kg = -3.27 dBW/kg

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Date: 2013/5/12

### LE Tilt\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270 \text{ MHz}$ ;  $\sigma = 4.669 \text{ S/m}$ ;  $\epsilon_r = 36.08$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.76, 4.76, 4.76); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.529 W/kg

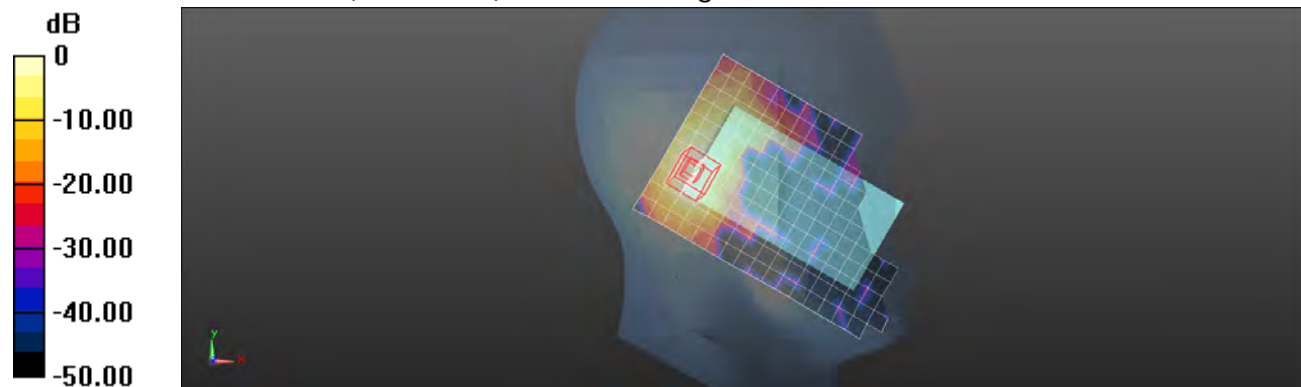
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 8.047 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.963 W/kg

**SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.106 W/kg**

Maximum value of SAR (measured) = 0.540 W/kg



0 dB = 0.540 W/kg = -2.68 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_ Front side\_WLAN802.11n(40M)5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 5.404$  S/m;  $\epsilon_r = 49.414$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0554 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

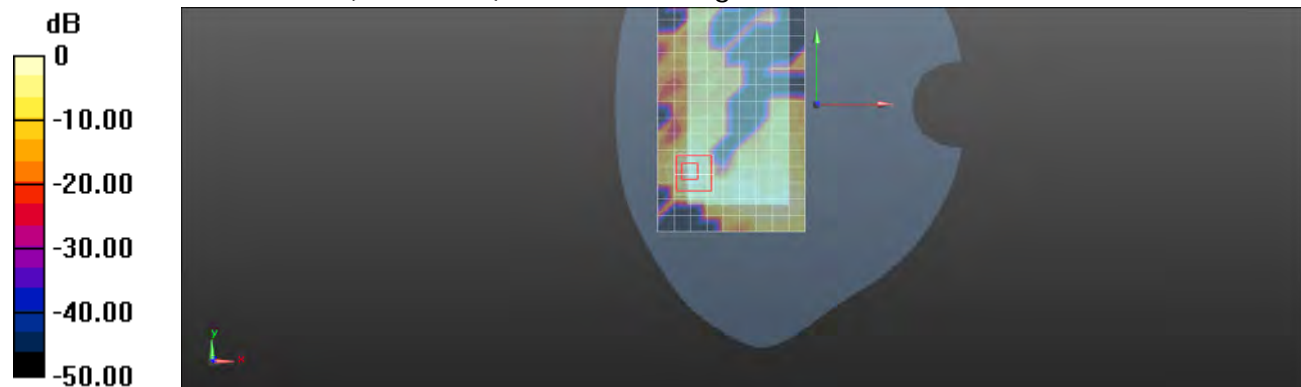
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.813 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.376 W/kg

#### SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0648 W/kg



0 dB = 0.0648 W/kg = -11.88 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_ Back side\_WLAN802.11n(40M)5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

Medium parameters used:  $f = 5270$  MHz;  $\sigma = 5.404$  S/m;  $\epsilon_r = 49.414$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.209 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

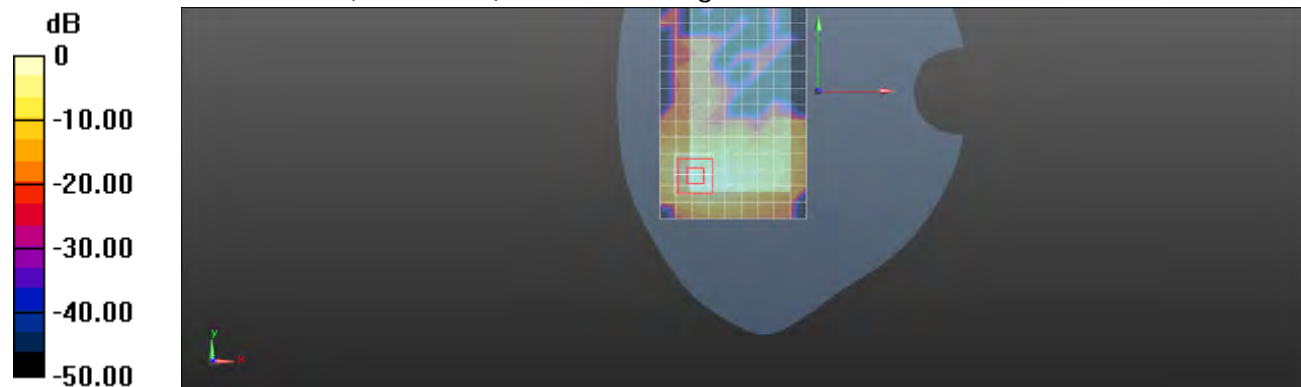
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 3.232 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.472 W/kg

#### SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.238 W/kg



0 dB = 0.238 W/kg = -6.23 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

 Medium parameters used:  $f = 5270$  MHz;  $\sigma = 5.404$  S/m;  $\epsilon_r = 49.414$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.216 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

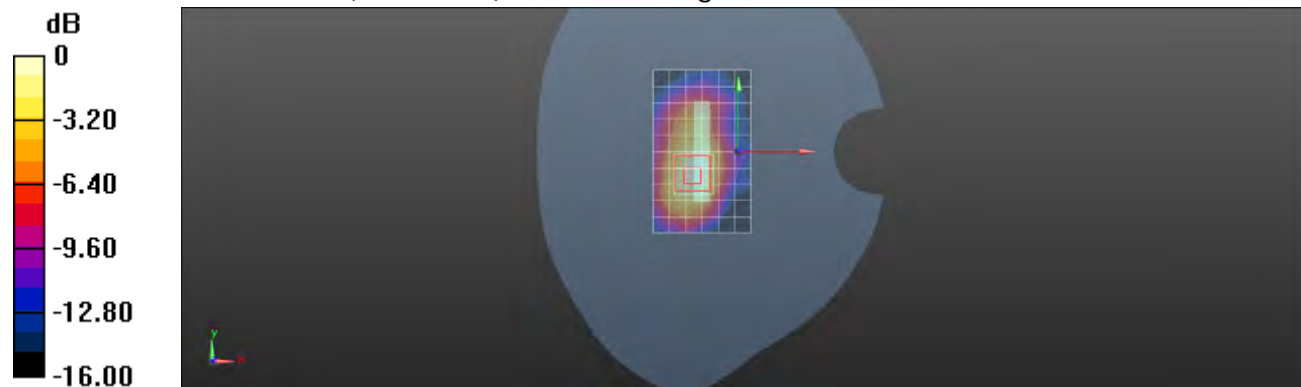
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.900 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.482 W/kg

#### SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.049 W/kg

Maximum value of SAR (measured) = 0.242 W/kg


 $0$  dB = 0.242 W/kg = -6.16 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.3G\_CH62

Communication System: WLAN 5G (FCC); Frequency: 5310 MHz

 Medium parameters used:  $f = 5310$  MHz;  $\sigma = 5.465$  S/m;  $\epsilon_r = 49.302$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.239 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

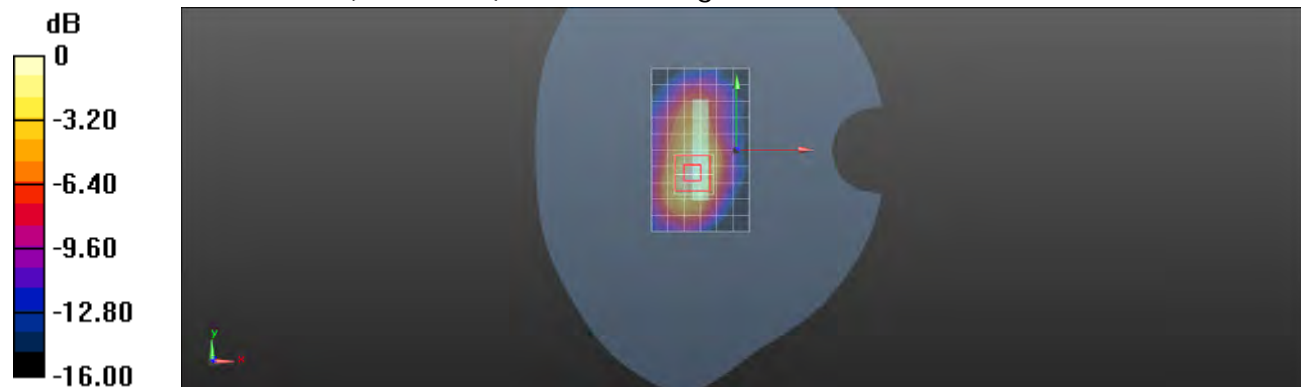
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 5.295 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.585 W/kg

#### SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.269 W/kg


 $0$  dB = 0.269 W/kg = -5.70 dBW/kg

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Date: 2013/5/17

### Hotspot mode\_Left side\_WLAN802.11n(40M) 5.3G\_CH54

Communication System: WLAN 5G (FCC); Frequency: 5270 MHz

 Medium parameters used:  $f = 5270$  MHz;  $\sigma = 5.404$  S/m;  $\epsilon_r = 49.414$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.95, 3.95, 3.95); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.108 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

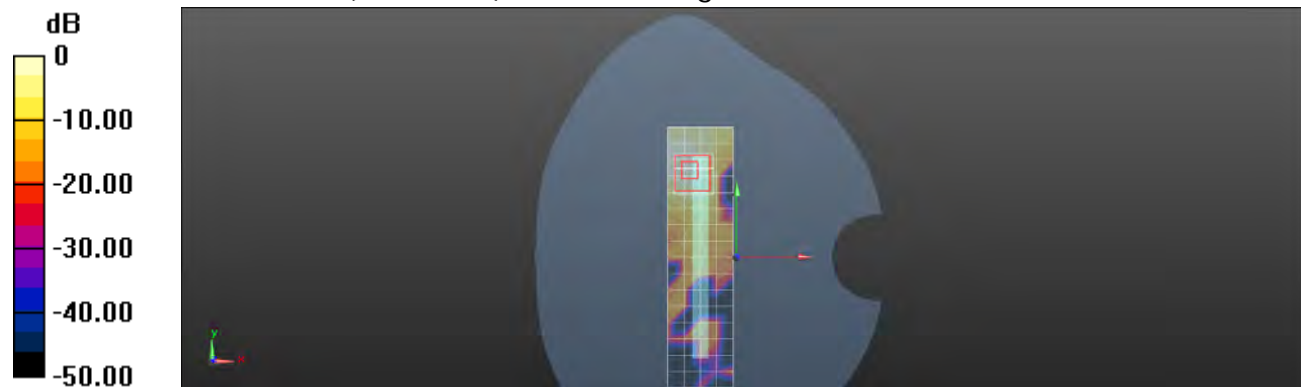
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.864 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.364 W/kg

#### SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.122 W/kg


 $0$  dB = 0.122 W/kg = -9.14 dBW/kg

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Date: 2013/5/15

## RE Cheek\_WLAN802.11a 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.644 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.283 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.155 W/kg**

Maximum value of SAR (measured) = 0.851 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 1:** Measurement grid:

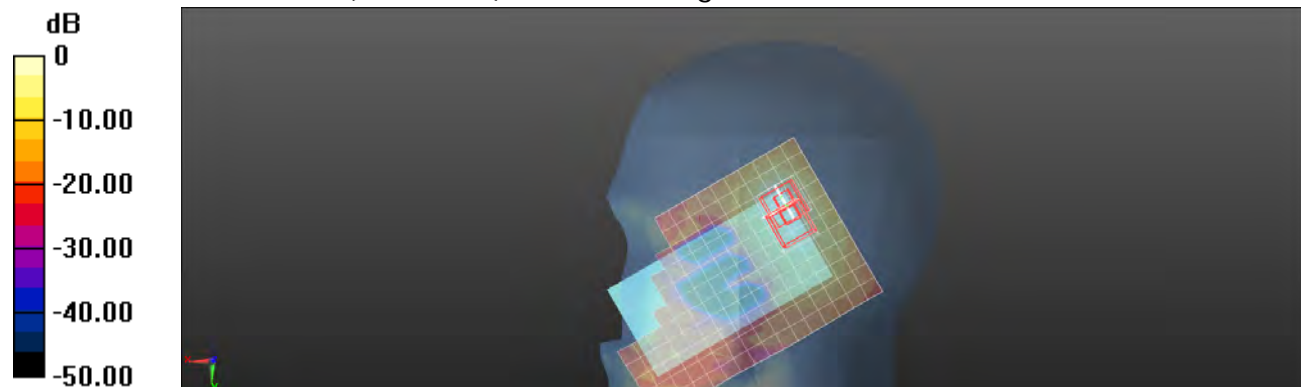
dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.283 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 1.47 W/kg

**SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.132 W/kg**

Maximum value of SAR (measured) = 0.807 W/kg



0 dB = 0.807 W/kg = -0.93 dBW/kg

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Date: 2013/5/15

### RE Cheek\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.088$  S/m;  $\epsilon_r = 35.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.729 W/kg

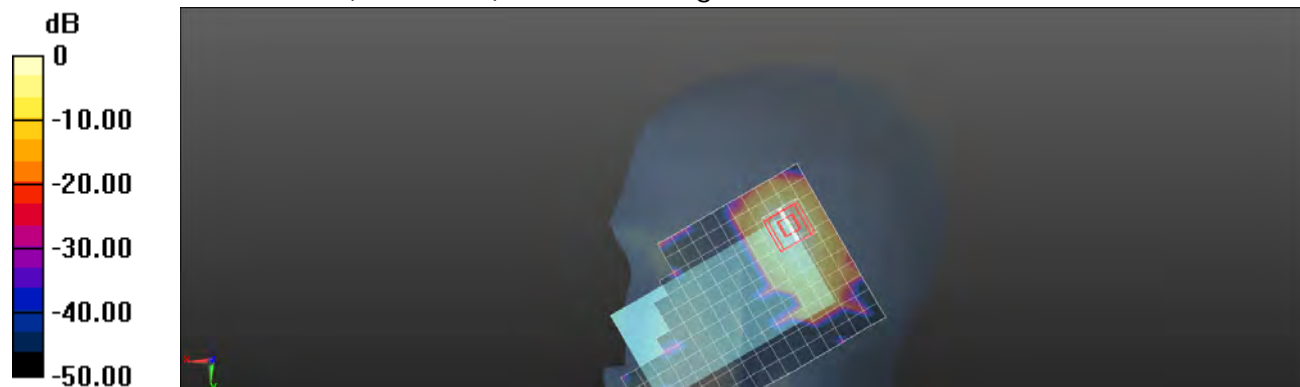
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.675 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.56 W/kg

**SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.139 W/kg**

Maximum value of SAR (measured) = 0.823 W/kg



0 dB = 0.823 W/kg = -0.85 dBW/kg

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Date: 2013/5/15

### RE Cheek\_WLAN802.11a 5.5G\_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620 \text{ MHz}$ ;  $\sigma = 5.143 \text{ S/m}$ ;  $\epsilon_r = 36.371$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.02 W/kg

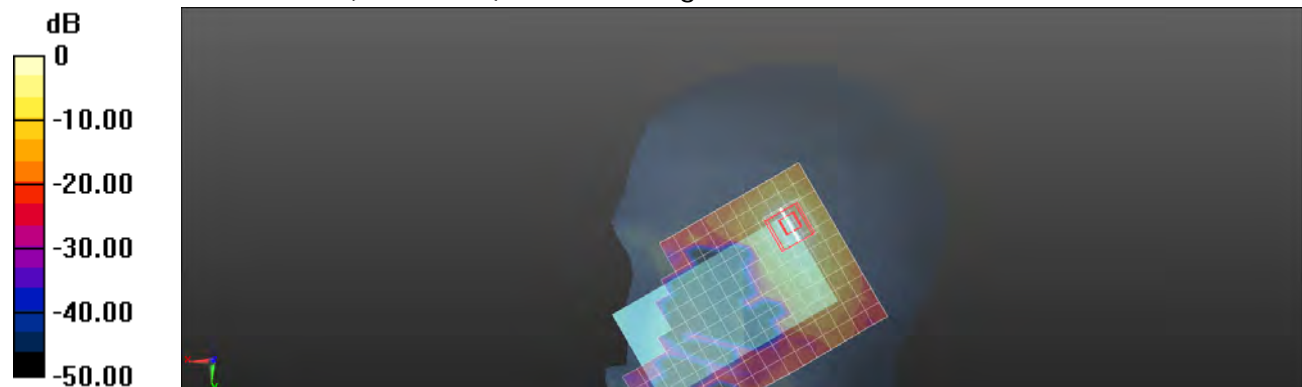
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 11.020 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 2.39 W/kg

**SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.196 W/kg**

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2013/5/15

### RE Cheek\_WLAN802.11a 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.202$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.654 W/kg

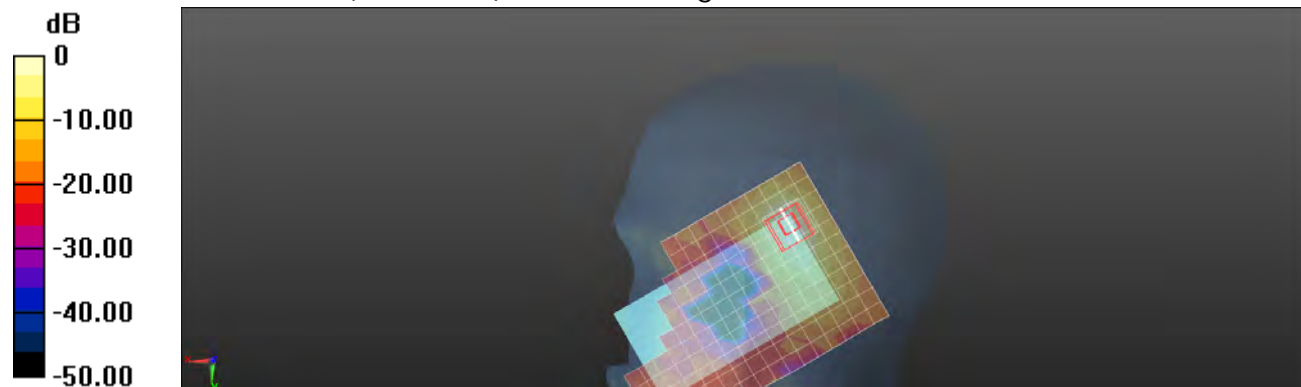
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.040 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.92 W/kg

**SAR(1 g) = 0.461 W/kg; SAR(10 g) = 0.148 W/kg**

Maximum value of SAR (measured) = 0.938 W/kg



0 dB = 0.938 W/kg = -0.28 dBW/kg

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Date: 2013/5/15

## RE Tilt\_WLAN802.11a 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.795 W/kg

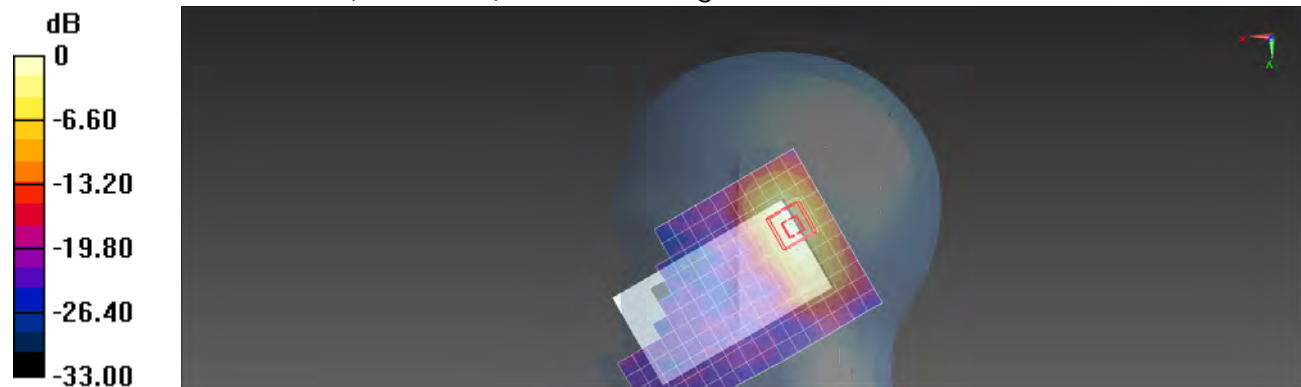
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.201 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.84 W/kg

**SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.179 W/kg**

Maximum value of SAR (measured) = 0.985 W/kg



0 dB = 0.985 W/kg = -0.07 dBW/kg

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Date: 2013/5/15

## RE Tilt\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.088$  S/m;  $\epsilon_r = 35.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.800 W/kg

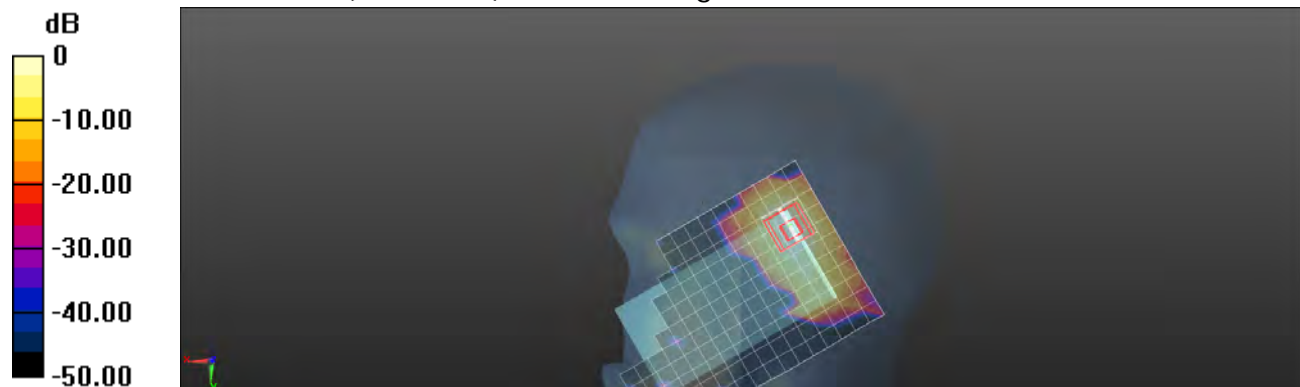
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.409 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.74 W/kg

**SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.155 W/kg**

Maximum value of SAR (measured) = 0.939 W/kg



0 dB = 0.939 W/kg = -0.27 dBW/kg

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Date: 2013/5/15

## RE Tilt\_WLAN802.11a 5.5G\_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620$  MHz;  $\sigma = 5.143$  S/m;  $\epsilon_r = 36.371$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.772 W/kg

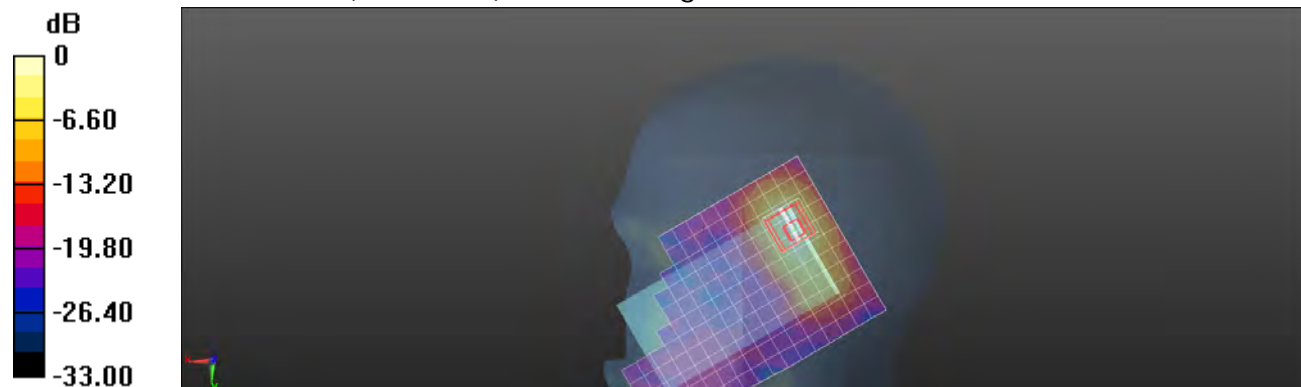
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.156 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.04 W/kg

**SAR(1 g) = 0.532 W/kg; SAR(10 g) = 0.190 W/kg**

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

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Date: 2013/5/15

## RE Tilt\_WLAN802.11a 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.202$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.697 W/kg

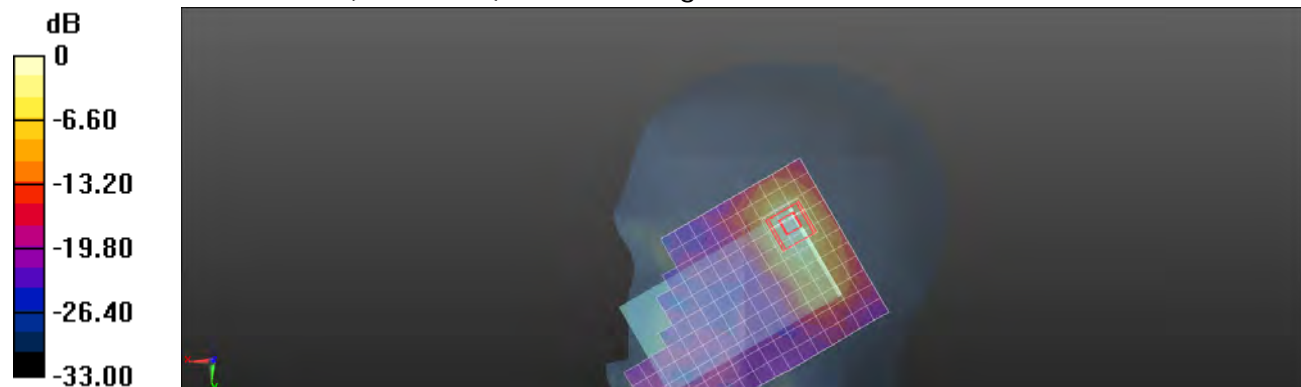
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.431 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.93 W/kg

**SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.168 W/kg**

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

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Date: 2013/5/15

### LE Cheek\_WLAN802.11a 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.730 W/kg

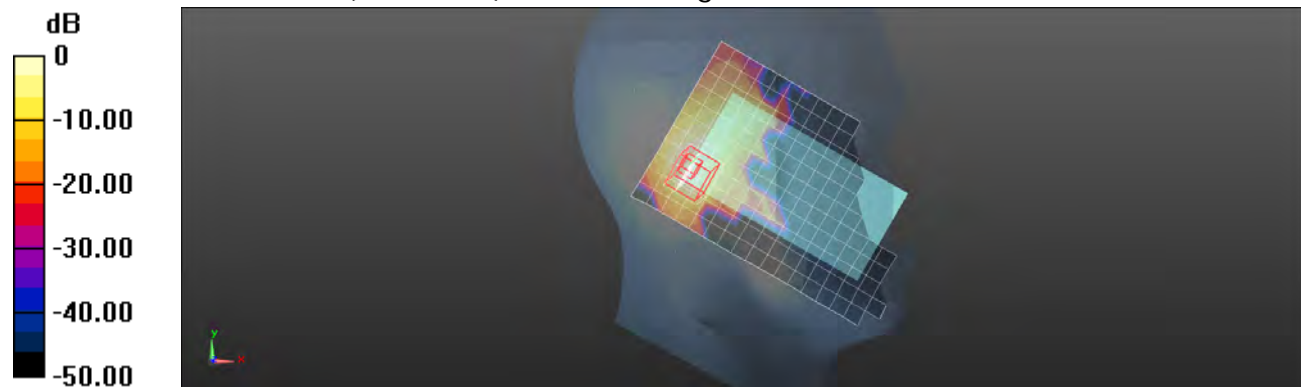
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.879 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.39 W/kg

**SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.134 W/kg**

Maximum value of SAR (measured) = 0.784 W/kg



0 dB = 0.784 W/kg = -1.06 dBW/kg

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Date: 2013/5/15

### LE Cheek\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.088$  S/m;  $\epsilon_r = 35.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.930 W/kg

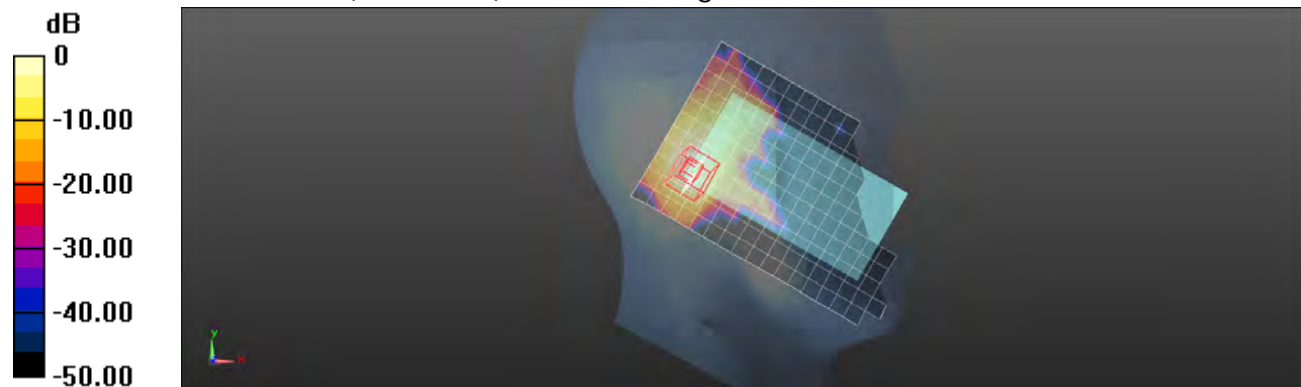
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.577 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.161 W/kg**

Maximum value of SAR (measured) = 0.958 W/kg



0 dB = 0.958 W/kg = -0.19 dBW/kg

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Date: 2013/5/15

### LE Cheek\_WLAN802.11a 5.5G\_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620$  MHz;  $\sigma = 5.143$  S/m;  $\epsilon_r = 36.371$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.02 W/kg

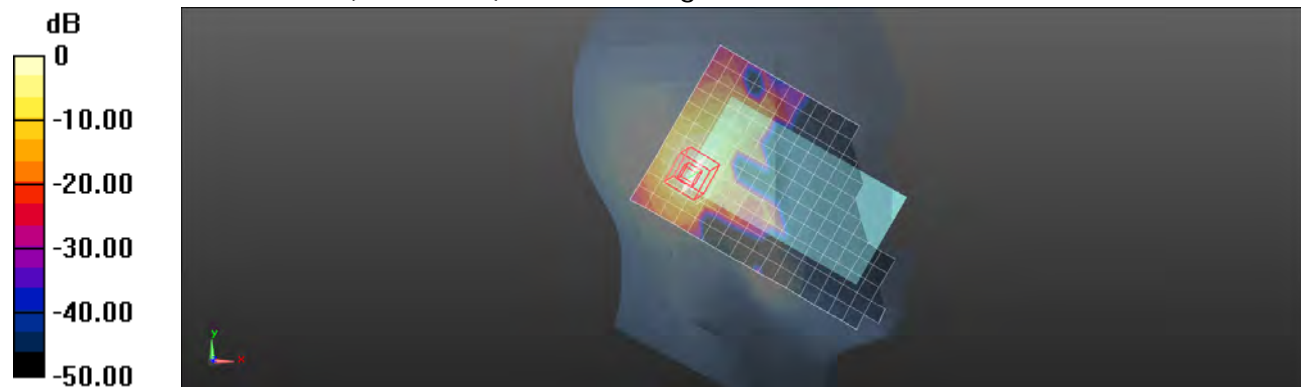
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.423 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.95 W/kg

**SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.197 W/kg**

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/15

### LE Cheek\_WLAN802.11a 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

 Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.202$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.893 W/kg

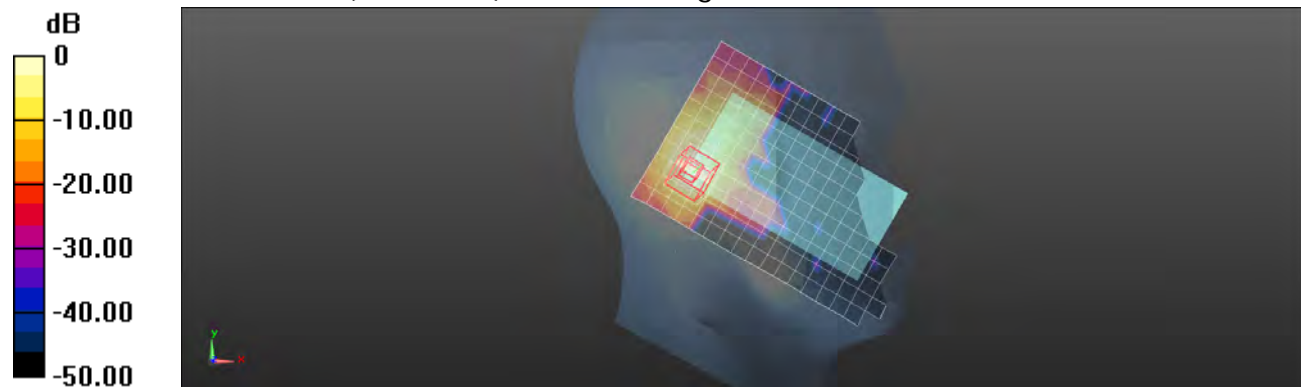
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.297 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.70 W/kg

**SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.156 W/kg**

Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.25 dBW/kg

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Date: 2013/5/15

### LE Tilt\_WLAN802.11a 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.892 W/kg

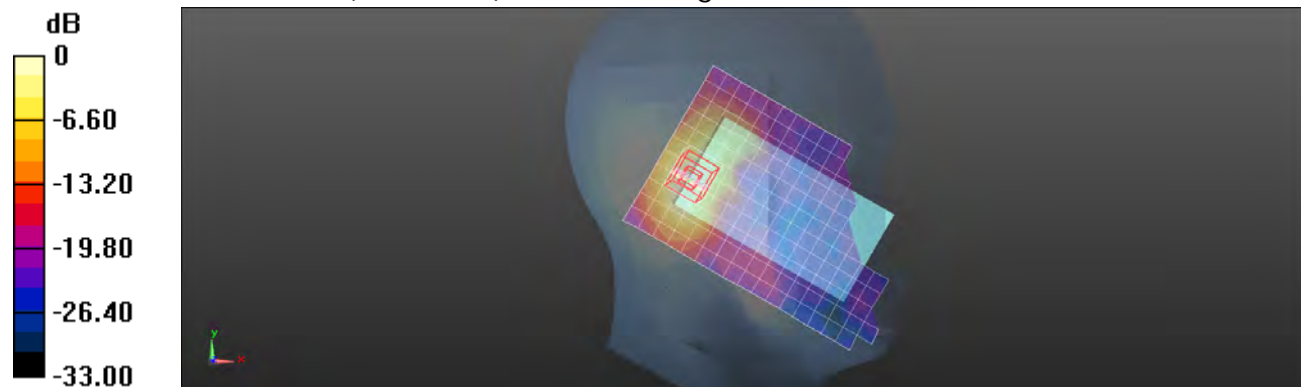
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.902 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.59 W/kg

**SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.192 W/kg**

Maximum value of SAR (measured) = 0.902 W/kg



0 dB = 0.902 W/kg = -0.45 dBW/kg

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Date: 2013/5/15

## LE Tilt\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.088$  S/m;  $\epsilon_r = 35.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.888 W/kg

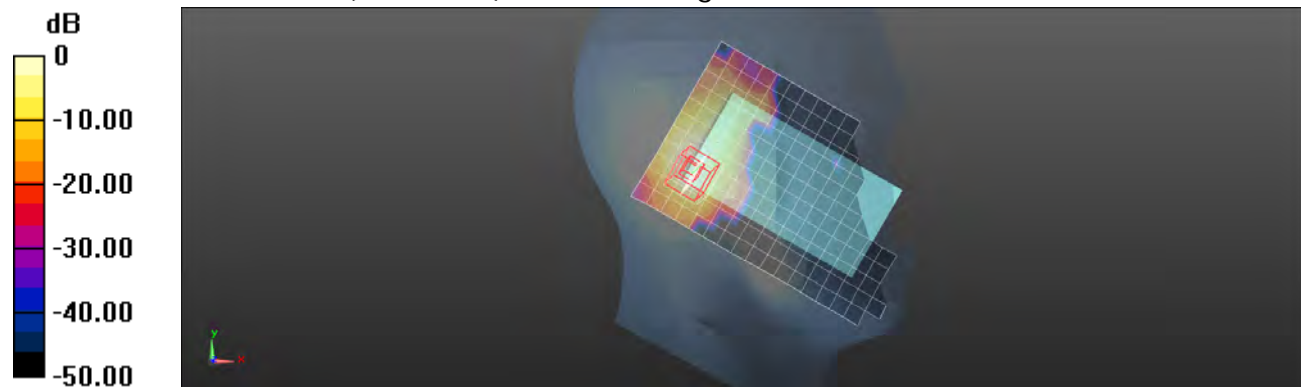
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.804 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.158 W/kg**

Maximum value of SAR (measured) = 0.939 W/kg



0 dB = 0.939 W/kg = -0.27 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2013/5/15

### LE Tilt\_WLAN802.11a 5.5G\_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

 Medium parameters used:  $f = 5620$  MHz;  $\sigma = 5.143$  S/m;  $\epsilon_r = 36.371$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

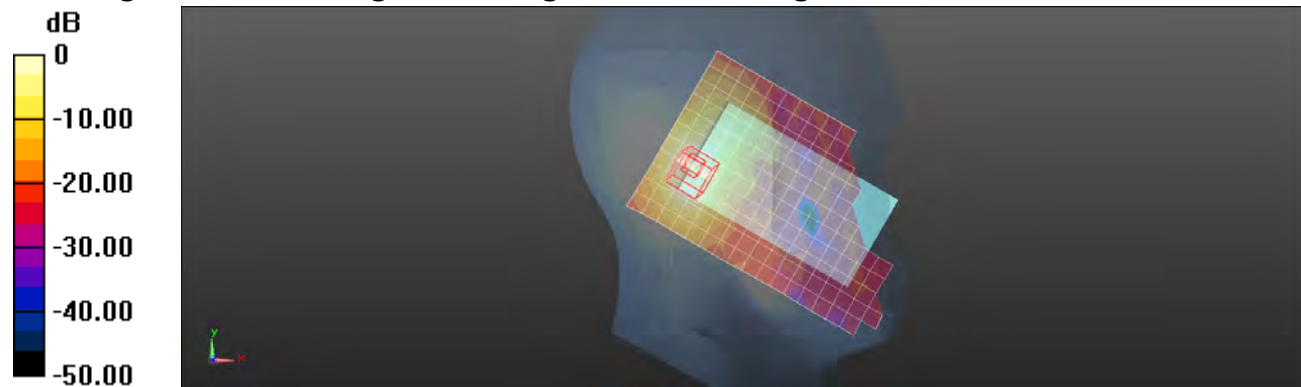
Maximum value of SAR (measured) = 1.09 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.069 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.99 W/kg

**SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.233 W/kg**



0 dB = 1.09 W/kg = 0.37 dBW/kg

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Date: 2013/5/15

### LE Tilt\_WLAN802.11a 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700 \text{ MHz}$ ;  $\sigma = 5.254 \text{ S/m}$ ;  $\epsilon_r = 35.202$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.745 W/kg

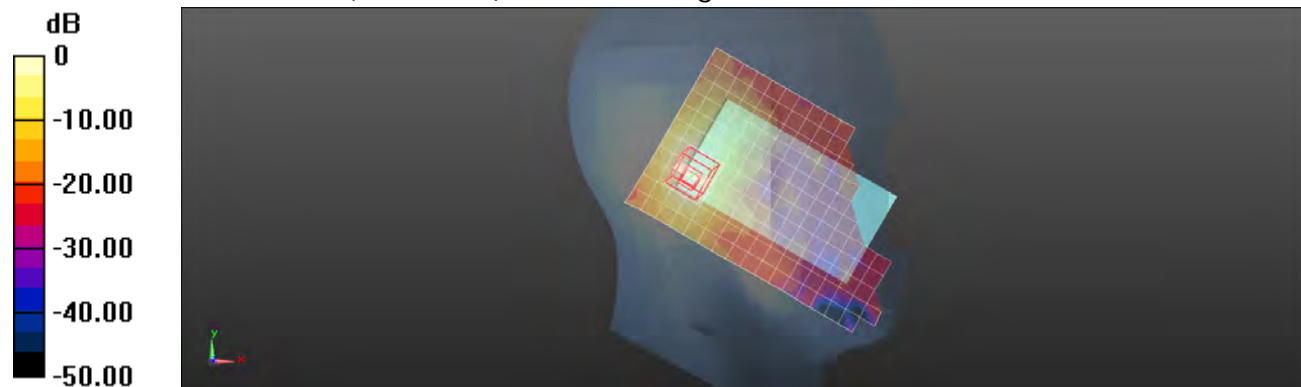
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 9.149 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 0.440 W/kg; SAR(10 g) = 0.167 W/kg**

Maximum value of SAR (measured) = 0.825 W/kg



0 dB = 0.825 W/kg = -0.84 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Front side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.86$  S/m;  $\epsilon_r = 48.734$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

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

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

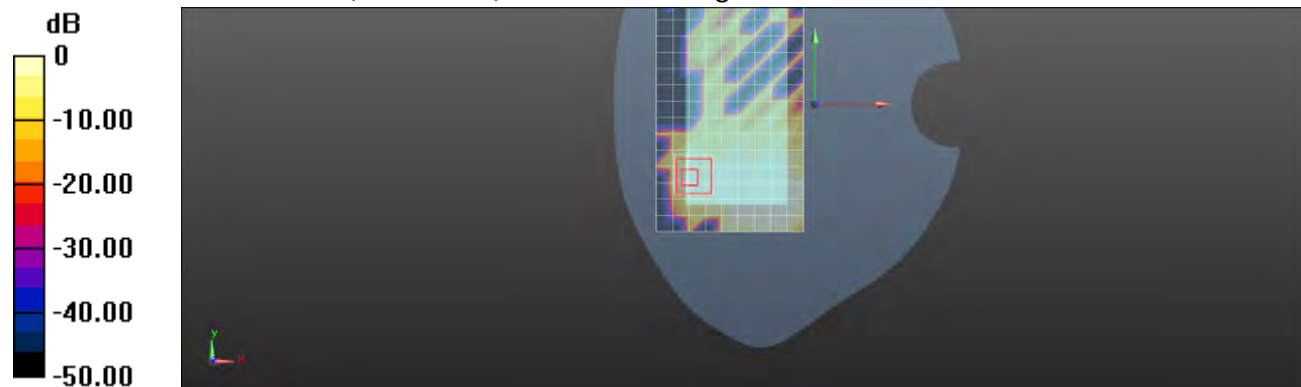
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.197 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.573 W/kg

#### SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.012 W/kg

Maximum value of SAR (measured) = 0.0671 W/kg



0 dB = 0.0671 W/kg = -11.73 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Back side\_WLAN802.11a 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.734$  S/m;  $\epsilon_r = 48.911$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.63, 3.63, 3.63); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.421 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

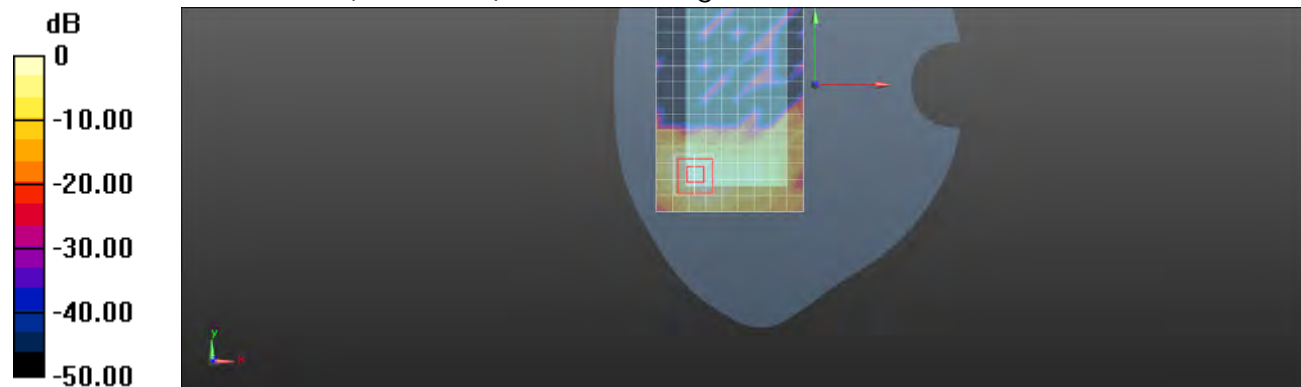
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.666 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.05 W/kg

#### SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.084 W/kg

Maximum value of SAR (measured) = 0.522 W/kg



0 dB = 0.522 W/kg = -2.82 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Back side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.86$  S/m;  $\epsilon_r = 48.734$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.559 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.639 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.19 W/kg

#### SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.100 W/kg

Maximum value of SAR (measured) = 0.607 W/kg


 $0$  dB = 0.607 W/kg = -2.17 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Back side\_WLAN802.11a 5.5G\_CH124

Communication System: WLAN 5G (FCC); Frequency: 5620 MHz

Medium parameters used:  $f = 5620$  MHz;  $\sigma = 5.907$  S/m;  $\epsilon_r = 48.664$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.494 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.672 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.09 W/kg

#### SAR(1 g) = 0.258 W/kg; SAR(10 g) = 0.082 W/kg

Maximum value of SAR (measured) = 0.526 W/kg



0 dB = 0.526 W/kg = -2.79 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Back side\_WLAN802.11a 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700$  MHz;  $\sigma = 6.038$  S/m;  $\epsilon_r = 48.527$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.326 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

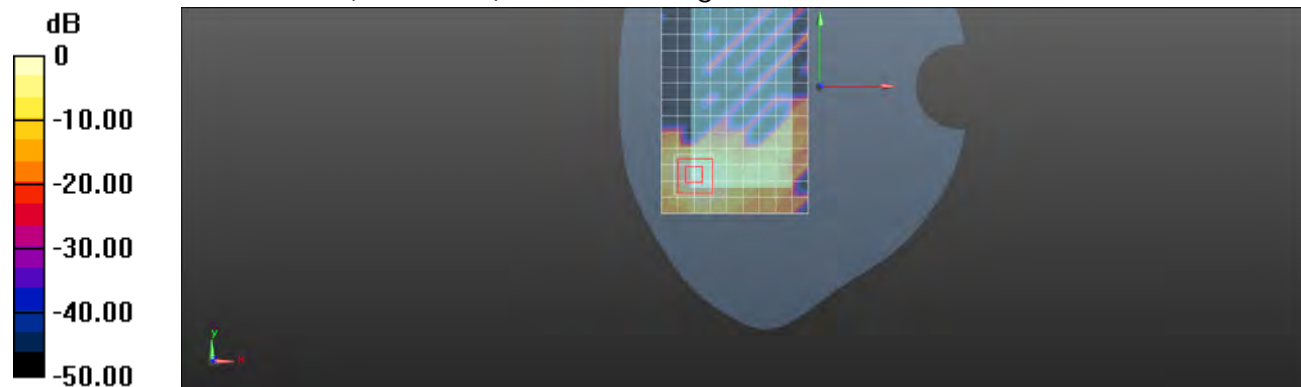
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.612 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.687 W/kg

#### SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.055 W/kg

Maximum value of SAR (measured) = 0.365 W/kg



0 dB = 0.365 W/kg = -4.38 dBW/kg

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Date: 2013/5/18

## Hotspot mode\_Back side\_WLAN802.11a 5.5G\_CH116\_repeated with external Memory card inside

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.86$  S/m;  $\epsilon_r = 48.734$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/Body-worn/Area Scan (10x16x1):** Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.326 W/kg

**Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

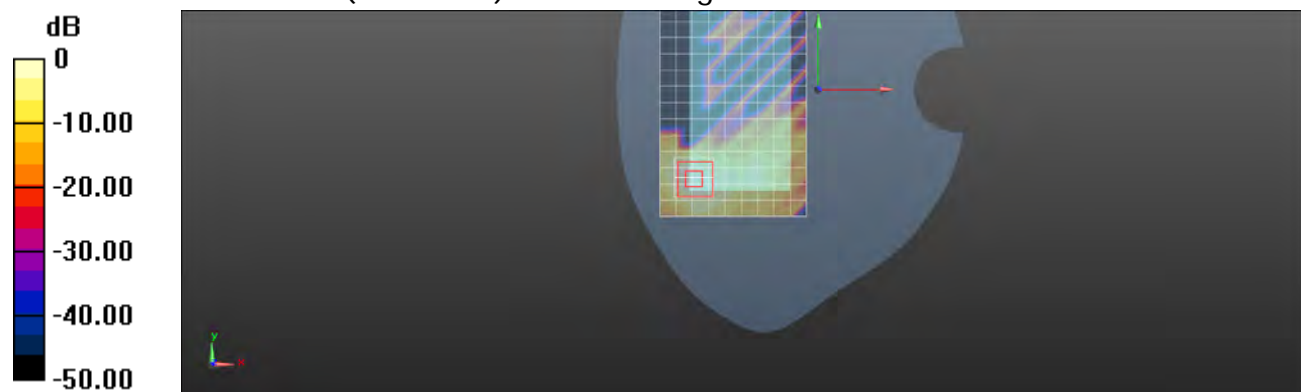
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.292 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.645 W/kg

**SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.058 W/kg**

Maximum value of SAR (measured) = 0.359 W/kg


 $0$  dB = 0.359 W/kg = -4.45 dBW/kg

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Date: 2013/5/18

## Hotspot mode\_Back side\_WLAN802.11a 5.5G\_CH116\_repeated with headset (MH410C)

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.86$  S/m;  $\epsilon_r = 48.734$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.403 W/kg

### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.521V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.879 W/kg

### SAR(1 g) = 0.205 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.406 W/kg



0 dB = 0.406 W/kg = -3.91 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/18

### Hotspot mode\_Top side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 5.86 \text{ S/m}$ ;  $\epsilon_r = 48.734$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (8x13x1): Measurement grid:

 $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 0.304 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

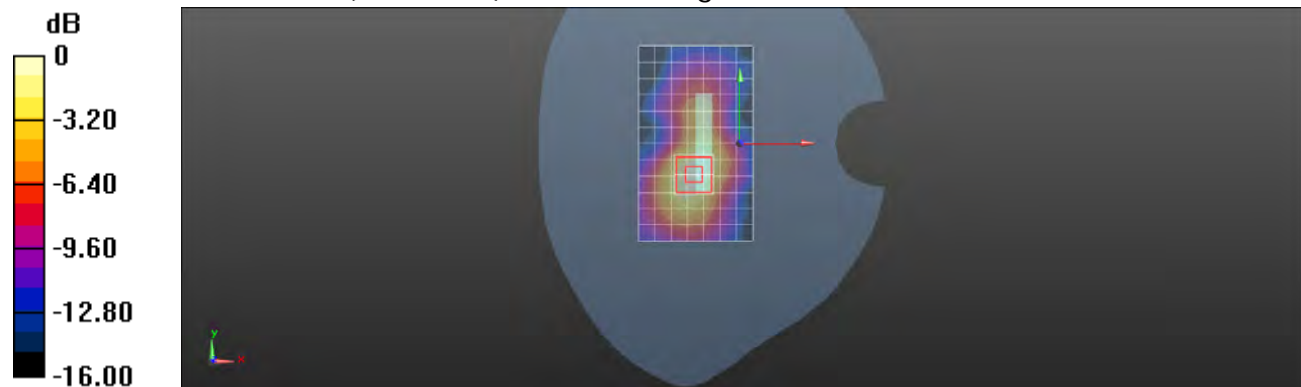
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 4.959 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.767 W/kg

#### SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.320 W/kg


 $0 \text{ dB} = 0.320 \text{ W/kg} = -4.95 \text{ dBW/kg}$ 

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Date: 2013/5/18

### Hotspot mode\_Left side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.86$  S/m;  $\epsilon_r = 48.734$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.182 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

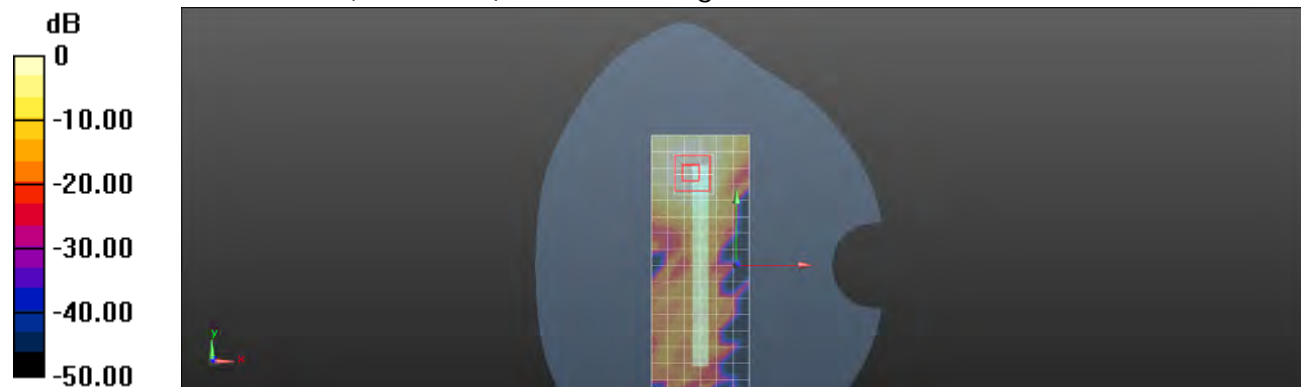
dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.072 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.487 W/kg

#### SAR(1 g) = 0.102 W/kg; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.200 W/kg



0 dB = 0.200 W/kg = -6.99 dBW/kg

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Date: 2013/5/15

### RE Cheek\_WLAN802.11n(20M) 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.793 W/kg

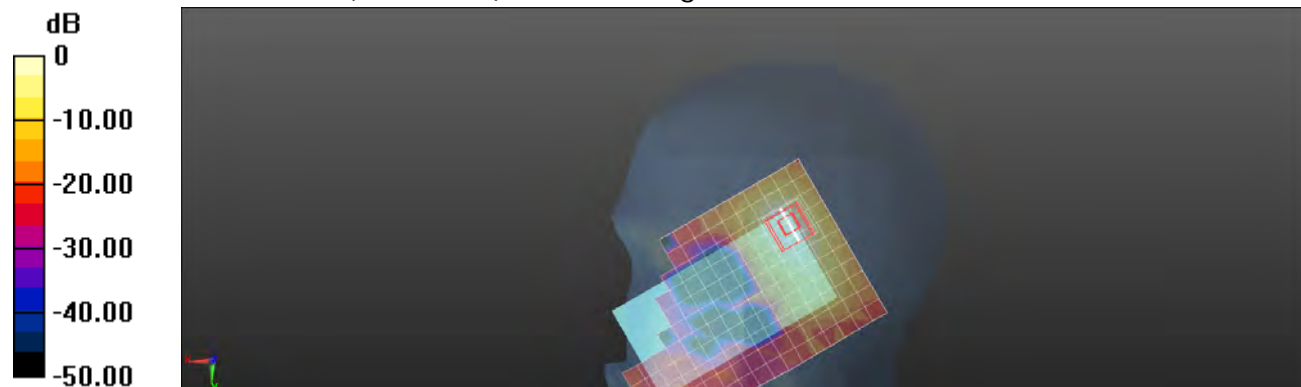
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.058 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.02 W/kg

**SAR(1 g) = 0.516 W/kg; SAR(10 g) = 0.193 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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Date: 2013/5/15

### RE Cheek\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.088$  S/m;  $\epsilon_r = 35.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.871 W/kg

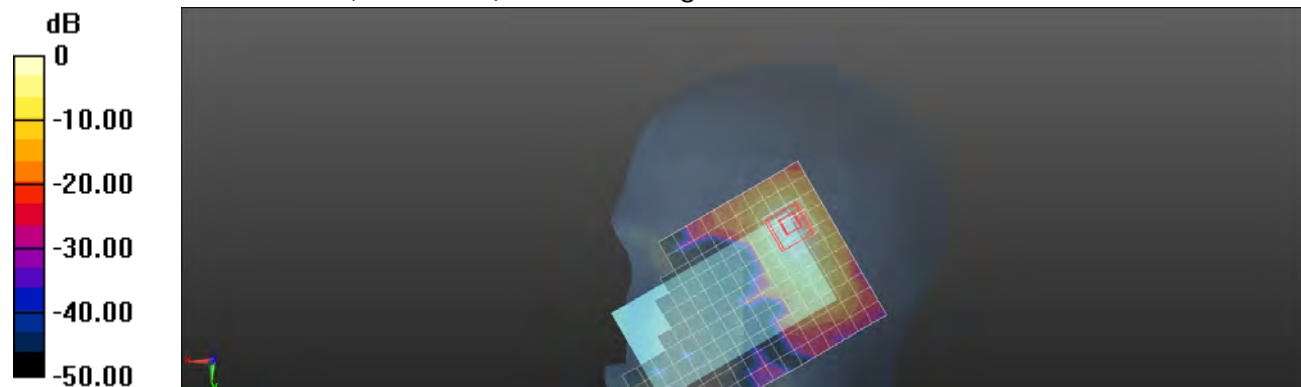
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.030 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.03 W/kg

**SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.172 W/kg**

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/5/15

### RE Cheek\_WLAN802.11n(20M) 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.202$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.636 W/kg

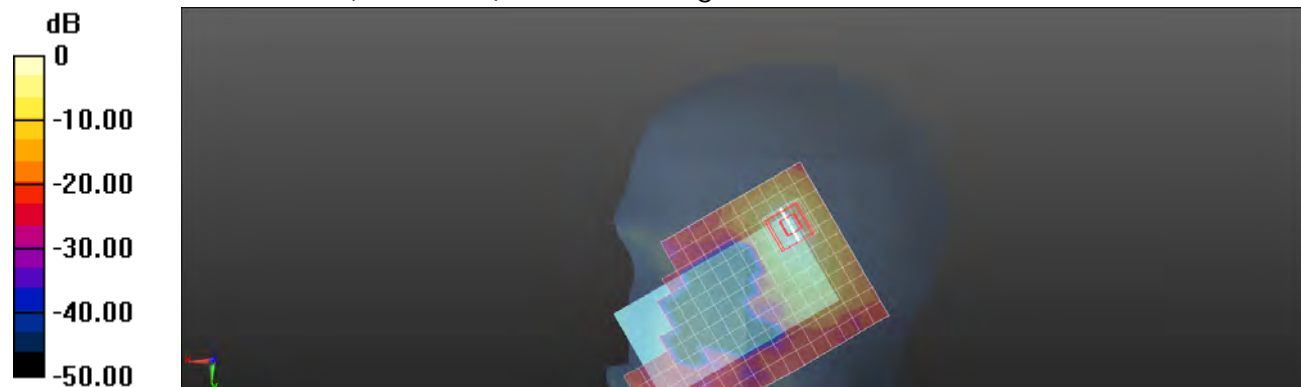
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.071 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.432 W/kg; SAR(10 g) = 0.144 W/kg**

Maximum value of SAR (measured) = 0.881 W/kg



0 dB = 0.881 W/kg = -0.55 dBW/kg

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Date: 2013/5/15

### RE Tilt\_WLAN802.11n(20M) 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.939 W/kg

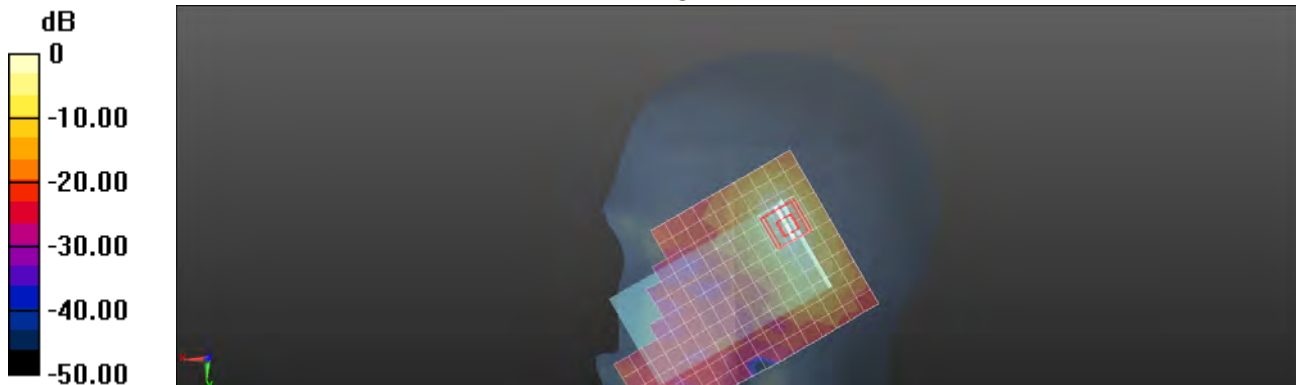
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.644 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.26 W/kg

**SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.218 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

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Date: 2013/5/15

## RE Tilt\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.088$  S/m;  $\epsilon_r = 35.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.03 W/kg

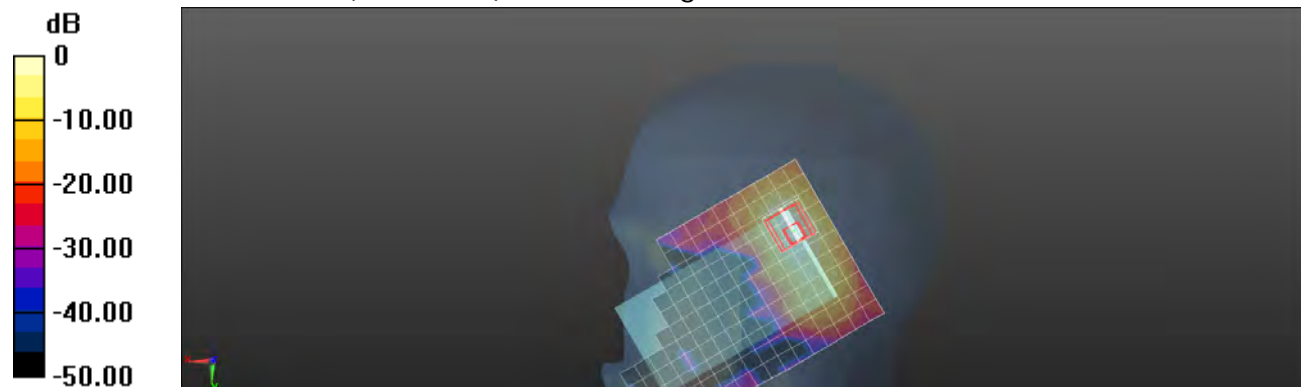
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 12.072 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.17 W/kg

**SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.195 W/kg**

Maximum value of SAR (measured) = 1.17 W/kg



0 dB = 1.17 W/kg = 0.68 dBW/kg

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Date: 2013/5/15

### RE Tilt\_WLAN802.11n(20M) 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700 \text{ MHz}$ ;  $\sigma = 5.254 \text{ S/m}$ ;  $\epsilon_r = 35.202$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.725 W/kg

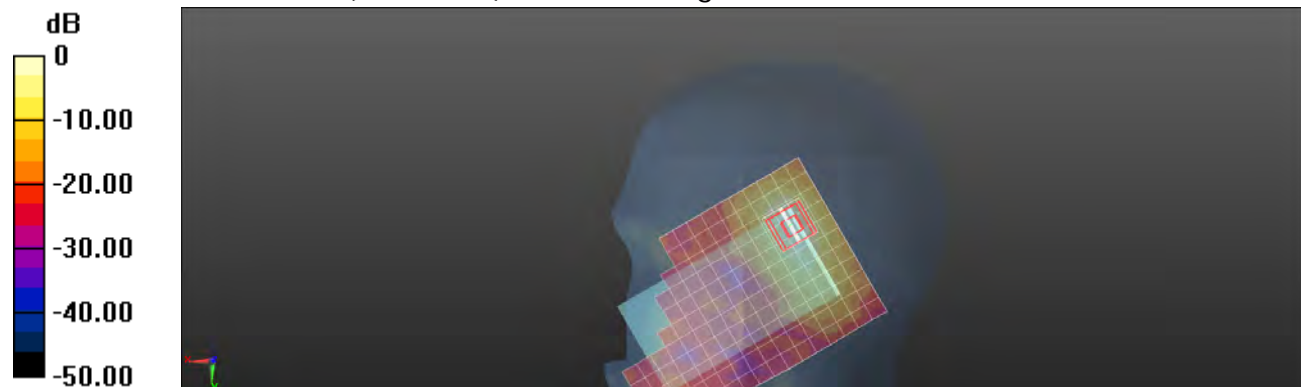
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 10.324 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 0.459 W/kg; SAR(10 g) = 0.156 W/kg**

Maximum value of SAR (measured) = 0.910 W/kg



0 dB = 0.910 W/kg = -0.41 dBW/kg

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Date: 2013/5/15

### LE Cheek\_WLAN802.11n(20M) 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.892 W/kg

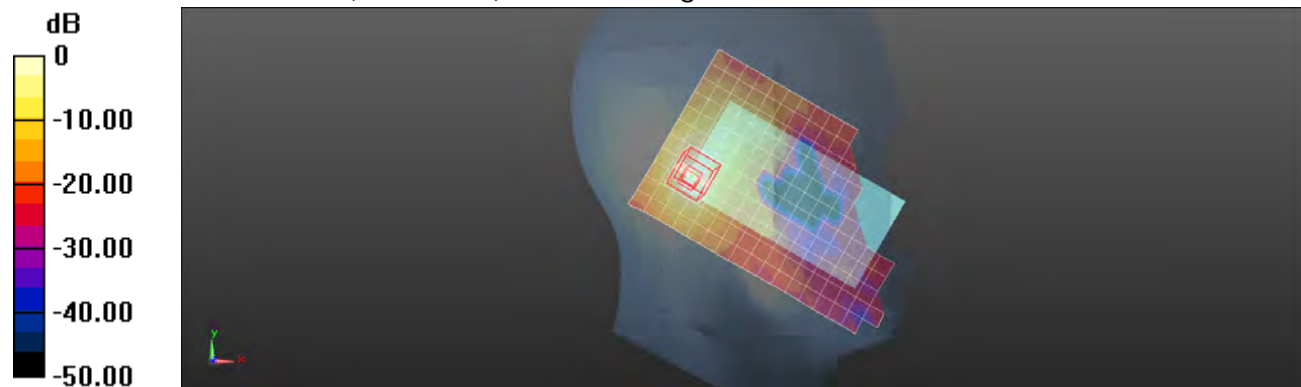
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.196 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.79 W/kg

**SAR(1 g) = 0.544 W/kg; SAR(10 g) = 0.206 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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Date: 2013/5/15

### LE Cheek\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.088$  S/m;  $\epsilon_r = 35.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.968 W/kg

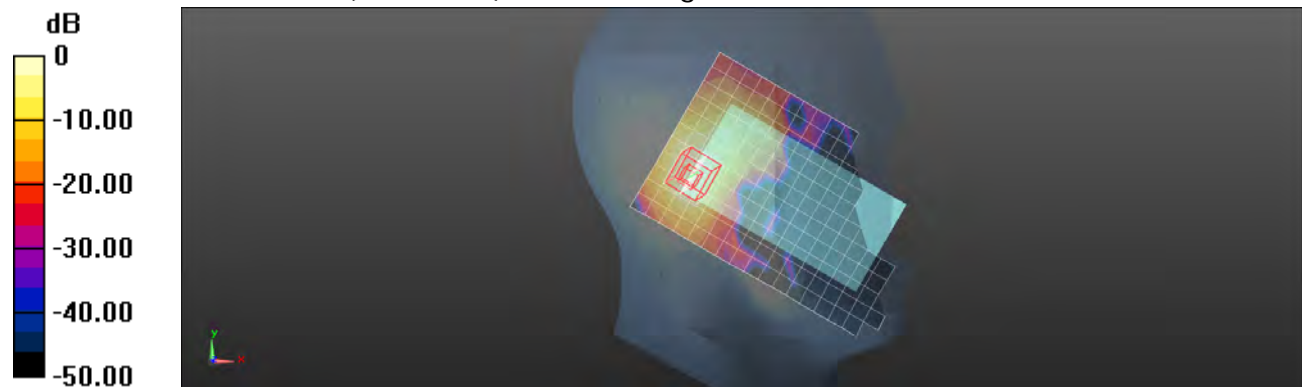
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.337 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.87 W/kg

**SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.201 W/kg**

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

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Date: 2013/5/15

### LE Cheek\_WLAN802.11n(20M) 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700$  MHz;  $\sigma = 5.254$  S/m;  $\epsilon_r = 35.202$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.750 W/kg

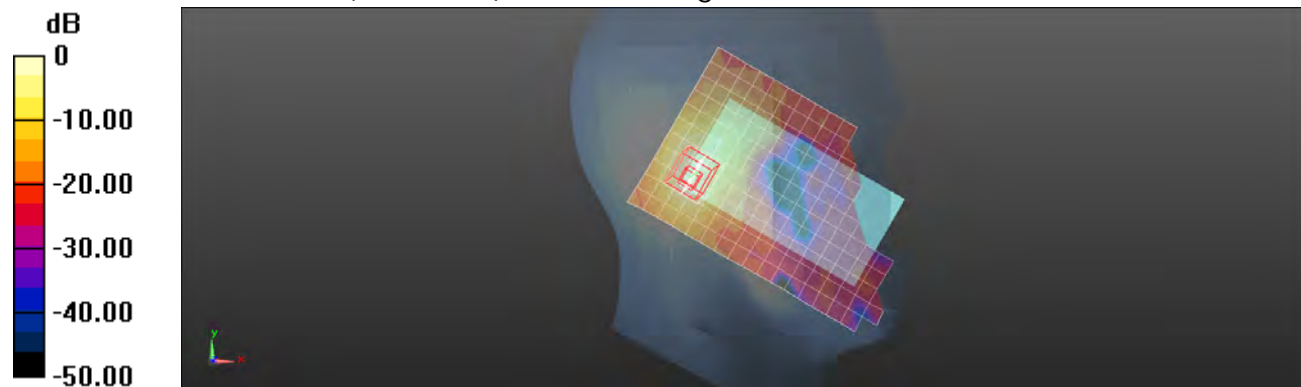
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.096 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.68 W/kg

**SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.172 W/kg**

Maximum value of SAR (measured) = 0.917 W/kg



0 dB = 0.917 W/kg = -0.38 dBW/kg

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Date: 2013/5/15

### LE Tilt\_WLAN802.11n(20M) 5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.984 W/kg

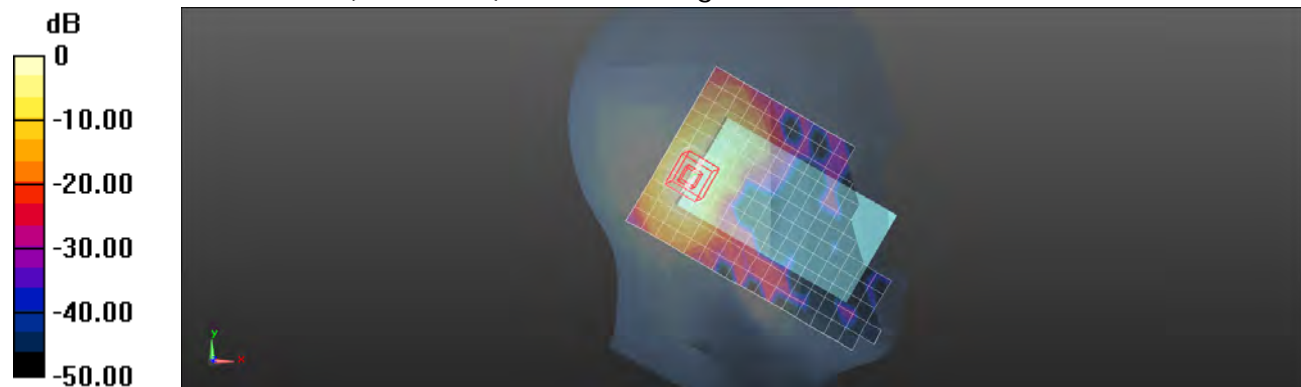
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.329 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.76 W/kg

**SAR(1 g) = 0.535 W/kg; SAR(10 g) = 0.204 W/kg**

Maximum value of SAR (measured) = 0.992 W/kg



0 dB = 0.992 W/kg = -0.03 dBW/kg

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Date: 2013/5/15

### LE Tilt\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 5.088 \text{ S/m}$ ;  $\epsilon_r = 35.456$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

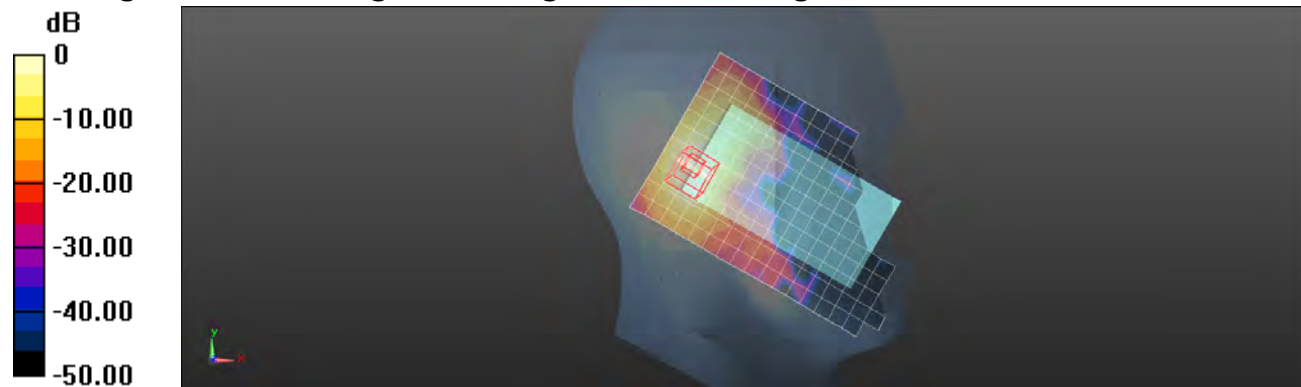
Maximum value of SAR (measured) = 1.10 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 10.701 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.97 W/kg

**SAR(1 g) = 0.595 W/kg; SAR(10 g) = 0.217 W/kg**



0 dB = 1.10 W/kg = 0.41 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/15

### LE Tilt\_WLAN802.11n(20M) 5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

Medium parameters used:  $f = 5700 \text{ MHz}$ ;  $\sigma = 5.254 \text{ S/m}$ ;  $\epsilon_r = 35.202$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1)**: Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.678 W/kg

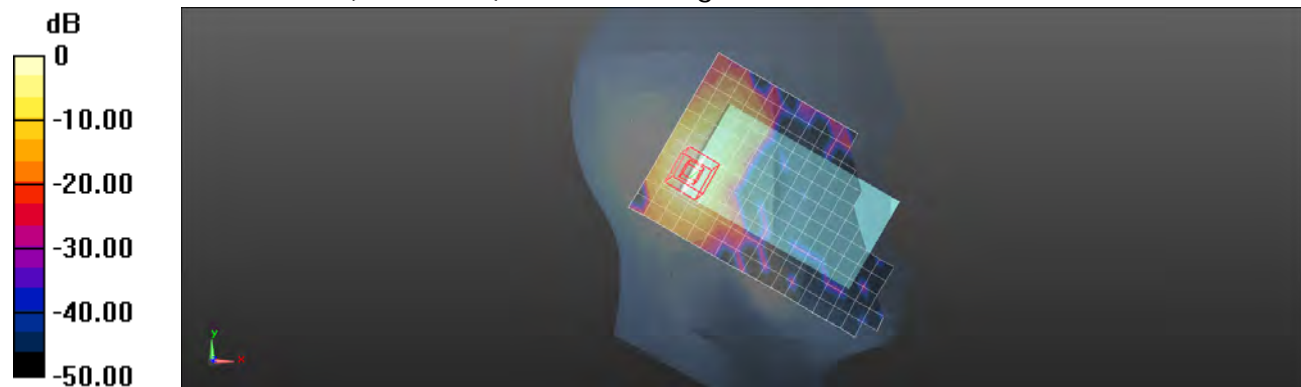
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0**: Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 8.579 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.142 W/kg**

Maximum value of SAR (measured) = 0.724 W/kg



0 dB = 0.724 W/kg = -1.40 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_ Front side\_WLAN802.11n(20M)5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 5.86 \text{ S/m}$ ;  $\epsilon_r = 48.734$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

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

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

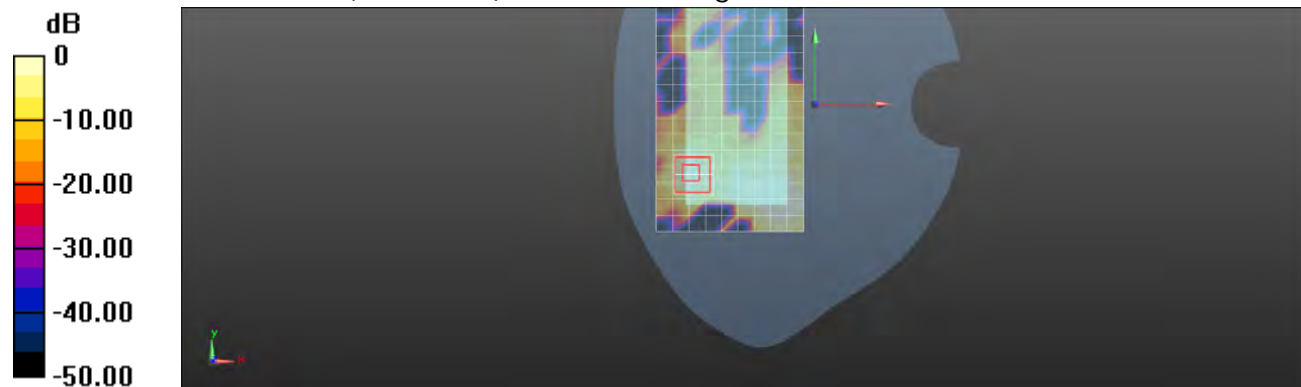
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.771 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 0.189 W/kg

#### SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0818 W/kg



0 dB = 0.0818 W/kg = -10.87 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_ Back side\_WLAN802.11n(20M)5.5G\_CH100

Communication System: WLAN 5G (FCC); Frequency: 5500 MHz

Medium parameters used:  $f = 5500 \text{ MHz}$ ;  $\sigma = 5.734 \text{ S/m}$ ;  $\epsilon_r = 48.911$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.63, 3.63, 3.63); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.510 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

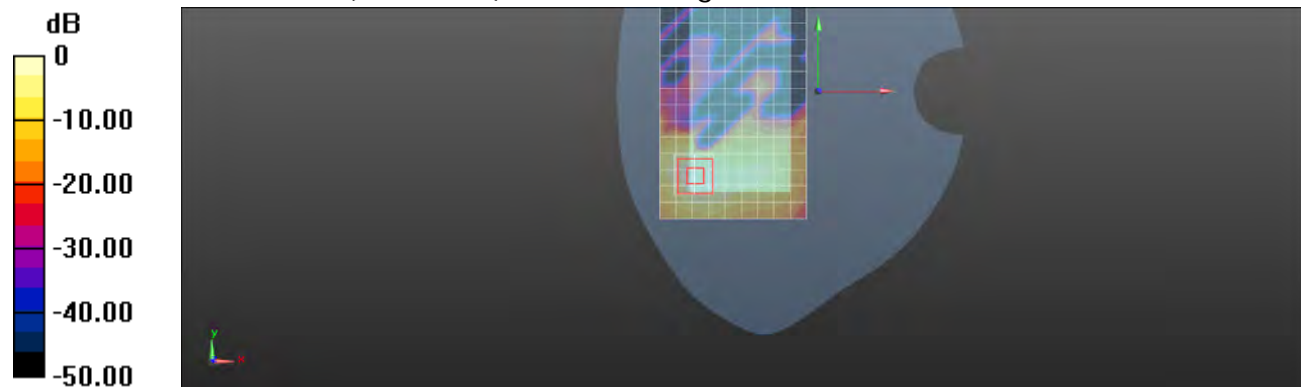
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.29 W/kg

#### SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.573 W/kg



0 dB = 0.573 W/kg = -2.42 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_ Back side\_WLAN802.11n(20M)5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 5.86 \text{ S/m}$ ;  $\epsilon_r = 48.734$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.355 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

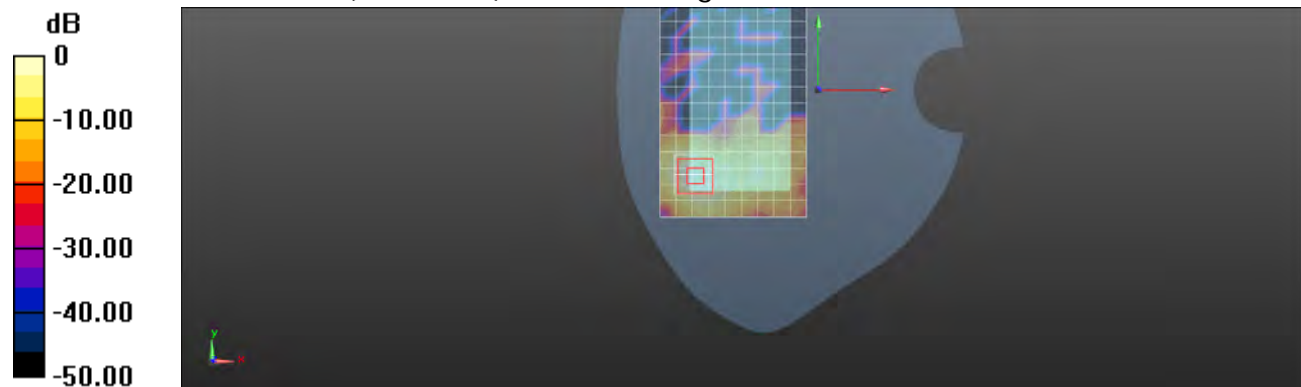
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 7.149 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.992 W/kg

#### SAR(1 g) = 0.203 W/kg; SAR(10 g) = 0.063 W/kg

Maximum value of SAR (measured) = 0.426 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_ Back side\_WLAN802.11n(20M)5.5G\_CH140

Communication System: WLAN 5G (FCC); Frequency: 5700 MHz

 Medium parameters used:  $f = 5700$  MHz;  $\sigma = 6.038$  S/m;  $\epsilon_r = 48.527$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.199 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

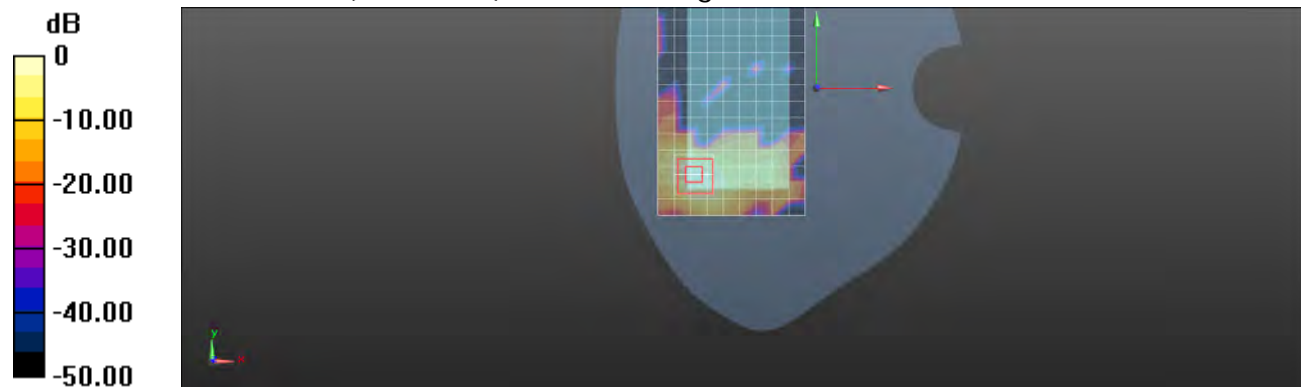
dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.142 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.711 W/kg

#### SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.032 W/kg

Maximum value of SAR (measured) = 0.255 W/kg



0 dB = 0.255 W/kg = -5.93 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/18

### Hotspot mode\_Top side\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

 Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 5.86 \text{ S/m}$ ;  $\epsilon_r = 48.734$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 0.345 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 4.365 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.773 W/kg

#### SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.069 W/kg

Maximum value of SAR (measured) = 0.334 W/kg


 $0 \text{ dB} = 0.334 \text{ W/kg} = -4.76 \text{ dBW/kg}$ 

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Date: 2013/5/18

### Hotspot mode\_Left side\_WLAN802.11n(20M) 5.5G\_CH116

Communication System: WLAN 5G (FCC); Frequency: 5580 MHz

Medium parameters used:  $f = 5580 \text{ MHz}$ ;  $\sigma = 5.86 \text{ S/m}$ ;  $\epsilon_r = 48.734$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.198 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

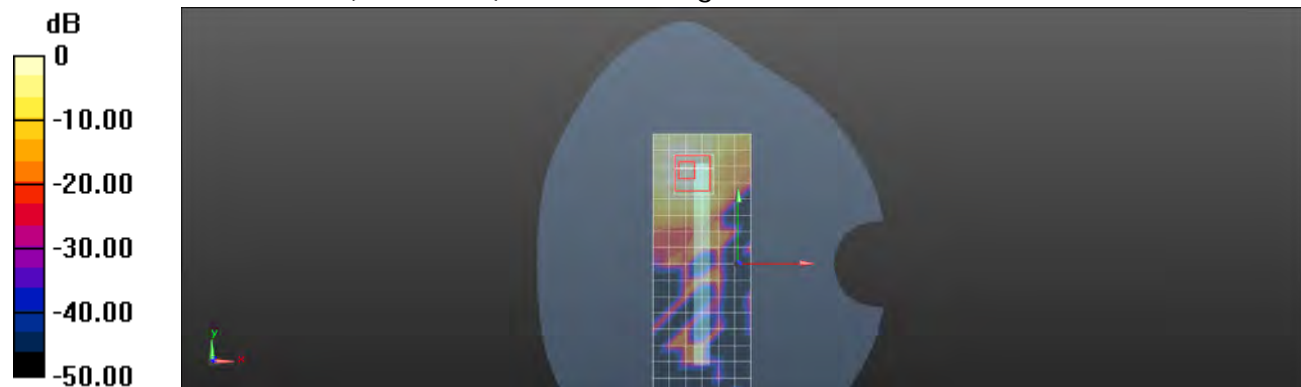
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.598 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.489 W/kg

#### SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.031 W/kg

Maximum value of SAR (measured) = 0.209 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

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Date: 2013/5/15

### RE Cheek\_WLAN802.11n(40M) 5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.101$  S/m;  $\epsilon_r = 35.438$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.648 W/kg

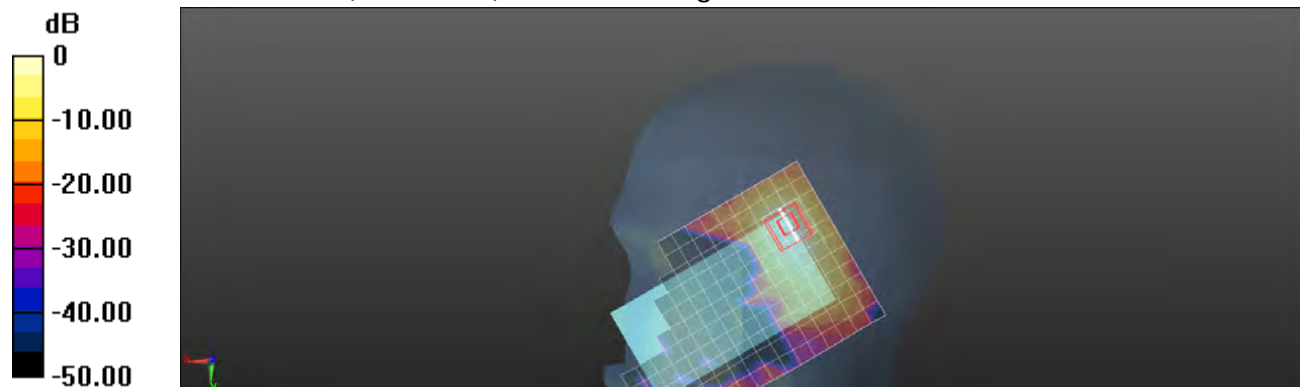
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.827 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.135 W/kg**

Maximum value of SAR (measured) = 0.798 W/kg



0 dB = 0.798 W/kg = -0.98 dBW/kg

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Date: 2013/5/15

## RE Tilt\_WLAN802.11n(40M) 5.5G\_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

Medium parameters used:  $f = 5510 \text{ MHz}$ ;  $\sigma = 4.992 \text{ S/m}$ ;  $\epsilon_r = 35.598$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.834 W/kg

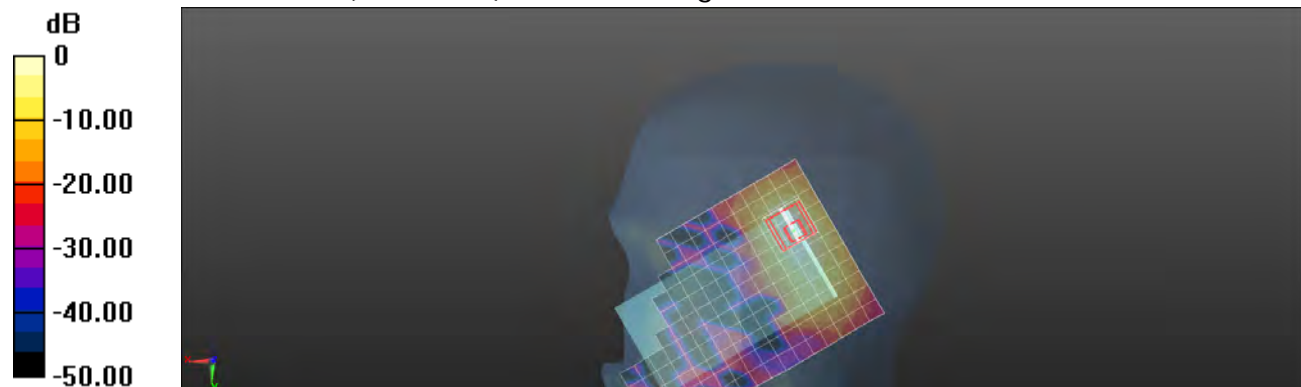
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 11.382 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.72 W/kg

**SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.153 W/kg**

Maximum value of SAR (measured) = 0.925 W/kg



0 dB = 0.925 W/kg = -3.4 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Date: 2013/5/15

### RE Tilt\_WLAN802.11n(40M) 5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.101$  S/m;  $\epsilon_r = 35.438$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.824 W/kg

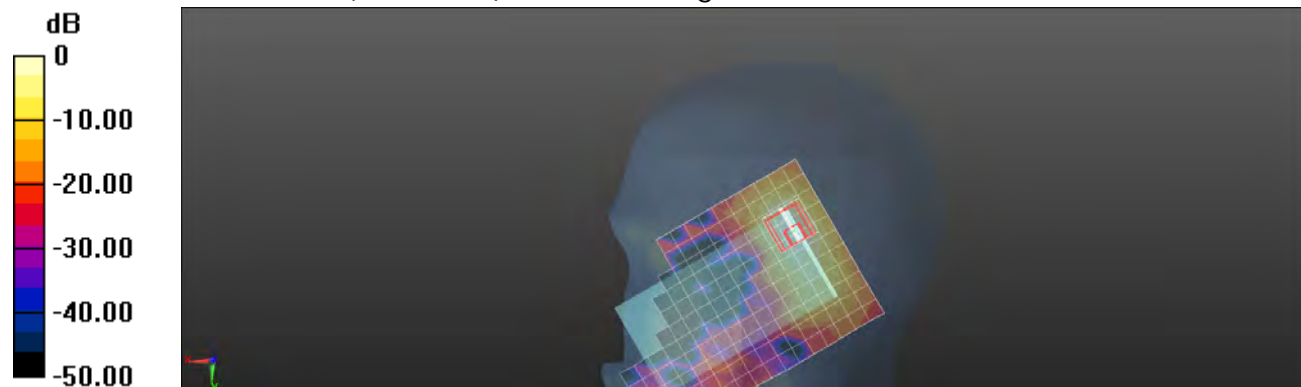
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.568 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.154 W/kg**

Maximum value of SAR (measured) = 0.933 W/kg



0 dB = 0.933 W/kg = -30 dBW/kg

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Date: 2013/5/15

### RE Tilt\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.212$  S/m;  $\epsilon_r = 35.263$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.727 W/kg

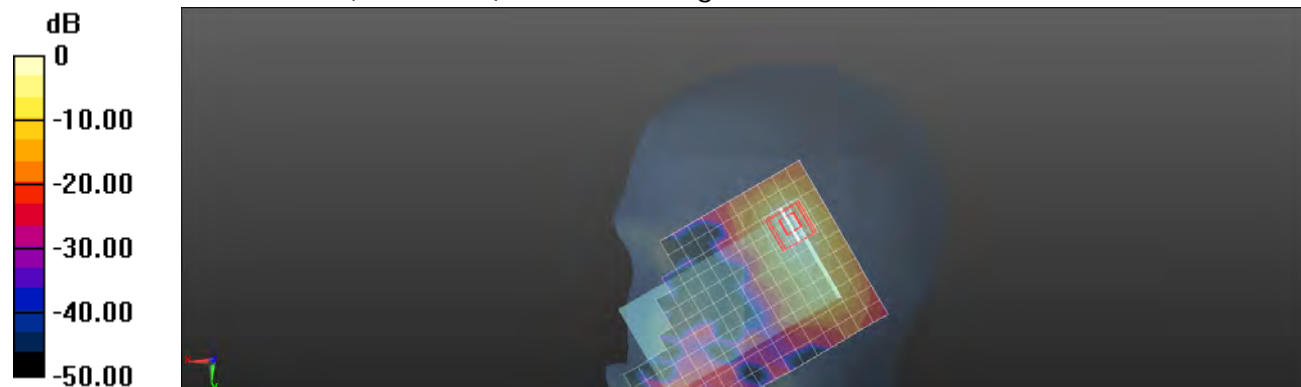
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.107 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.92 W/kg

**SAR(1 g) = 0.460 W/kg; SAR(10 g) = 0.148 W/kg**

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



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

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Date: 2013/5/15

### LE Cheek\_WLAN802.11n(40M) 5.5G\_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

Medium parameters used:  $f = 5510 \text{ MHz}$ ;  $\sigma = 4.992 \text{ S/m}$ ;  $\epsilon_r = 35.598$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.669 W/kg

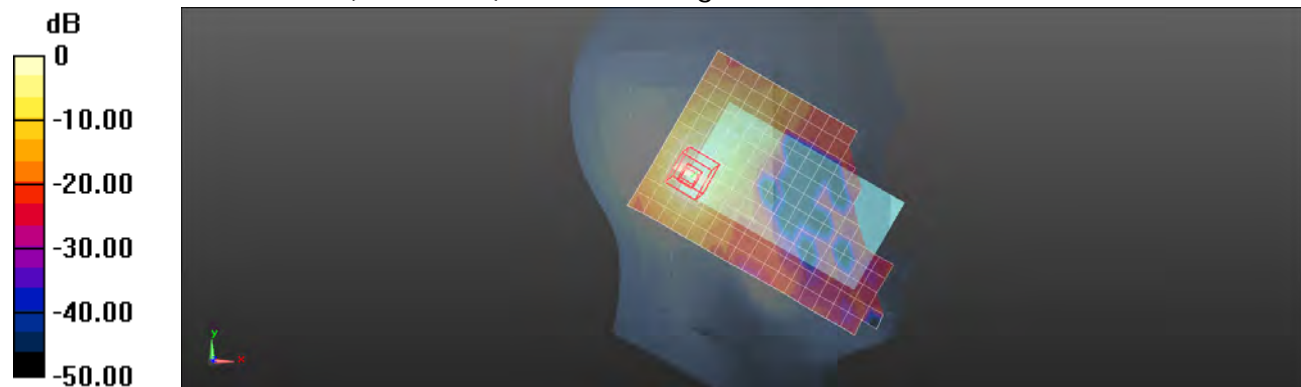
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 9.569 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.32 W/kg

**SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.157 W/kg**

Maximum value of SAR (measured) = 0.747 W/kg



0 dB = 0.747 W/kg = -1.27 dBW/kg

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Date: 2013/5/15

### LE Cheek\_WLAN802.11n(40M) 5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.101$  S/m;  $\epsilon_r = 35.438$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.712 W/kg

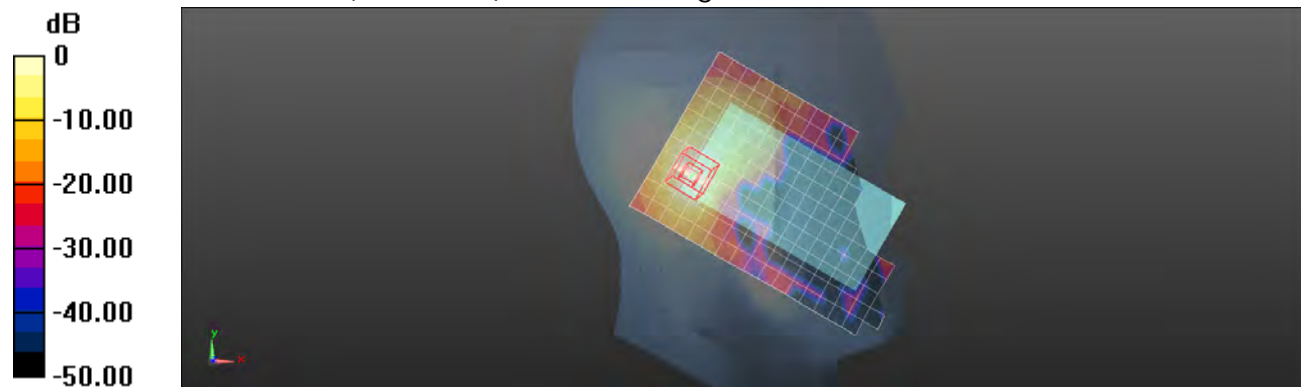
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.218 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.45 W/kg

**SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.155 W/kg**

Maximum value of SAR (measured) = 0.796 W/kg



0 dB = 0.796 W/kg = -0.99 dBW/kg

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Date: 2013/5/15

### LE Cheek\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

 Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.212$  S/m;  $\epsilon_r = 35.263$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.766 W/kg

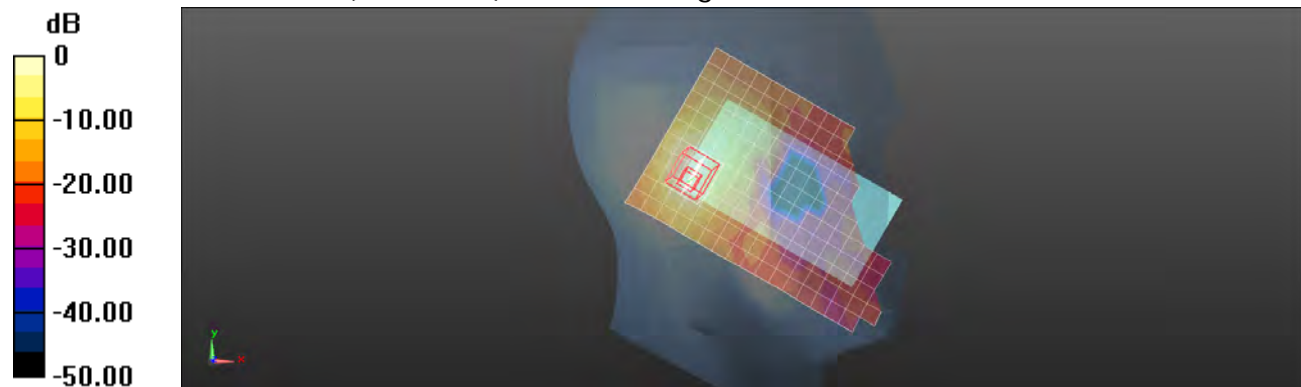
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.902 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.60 W/kg

**SAR(1 g) = 0.462 W/kg; SAR(10 g) = 0.176 W/kg**

Maximum value of SAR (measured) = 0.869 W/kg



0 dB = 0.869 W/kg = -0.61 dBW/kg

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Date: 2013/5/15

### LE Tilt\_WLAN802.11n(40M) 5.5G\_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

Medium parameters used:  $f = 5510 \text{ MHz}$ ;  $\sigma = 4.992 \text{ S/m}$ ;  $\epsilon_r = 35.598$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.845 W/kg

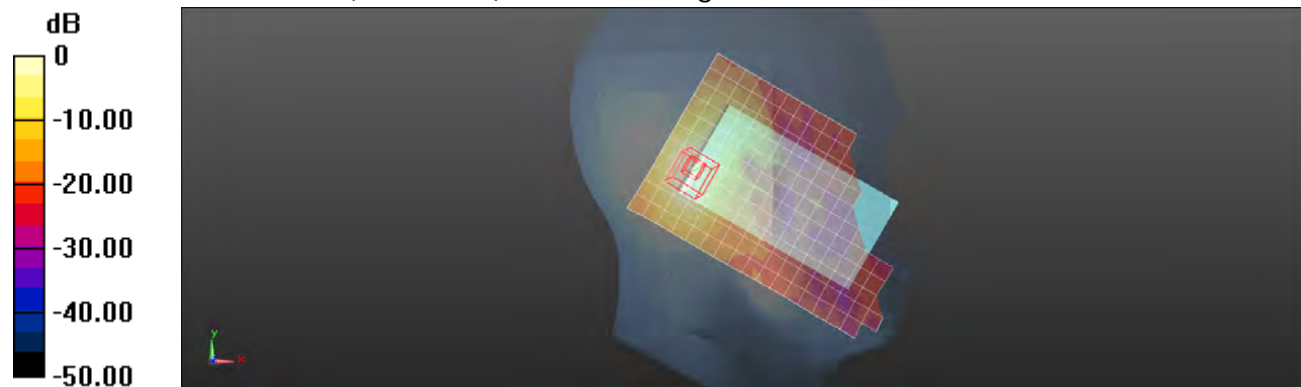
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 9.988 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.182 W/kg**

Maximum value of SAR (measured) = 0.854 W/kg



0 dB = 0.854 W/kg = -0.69 dBW/kg

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Date: 2013/5/15

### LE Tilt\_WLAN802.11n(40M) 5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.101$  S/m;  $\epsilon_r = 35.438$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.835 W/kg

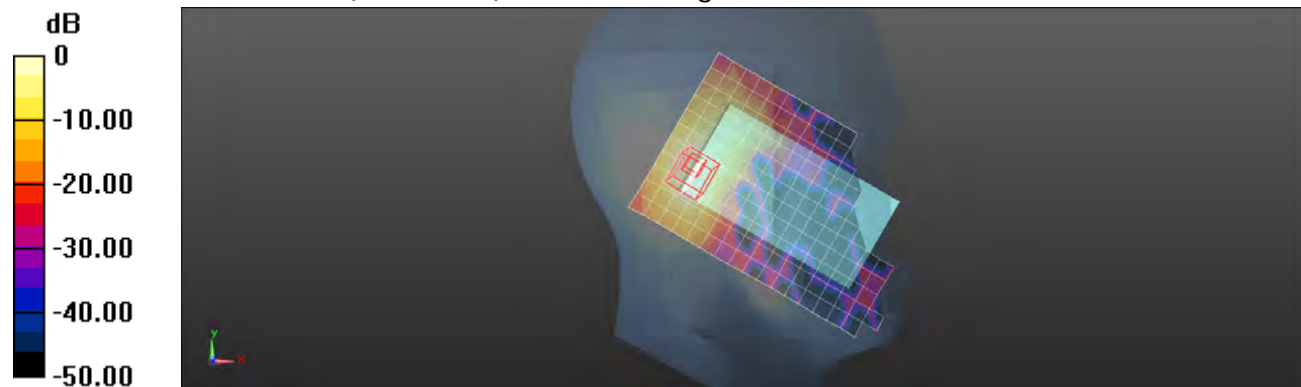
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.627 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.166 W/kg**

Maximum value of SAR (measured) = 0.841 W/kg



0 dB = 0.841 W/kg = -0.75 dBW/kg

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Date: 2013/5/15

### LE Tilt\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.212$  S/m;  $\epsilon_r = 35.263$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.31, 4.31, 4.31); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.844 W/kg

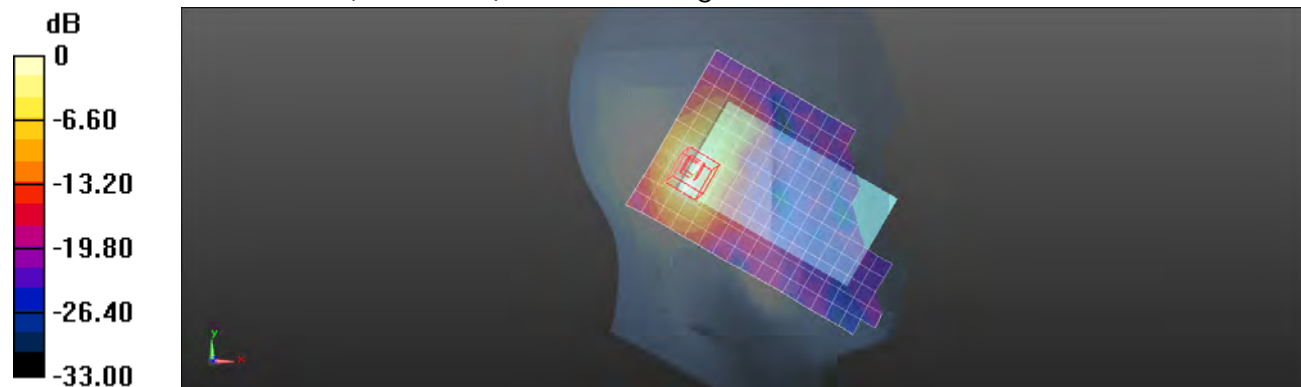
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.445 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.62 W/kg

**SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.192 W/kg**

Maximum value of SAR (measured) = 0.905 W/kg



0 dB = 0.905 W/kg = -0.43 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_ Front side\_WLAN802.11n(40M)5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

 Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.874$  S/m;  $\epsilon_r = 48.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.110 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

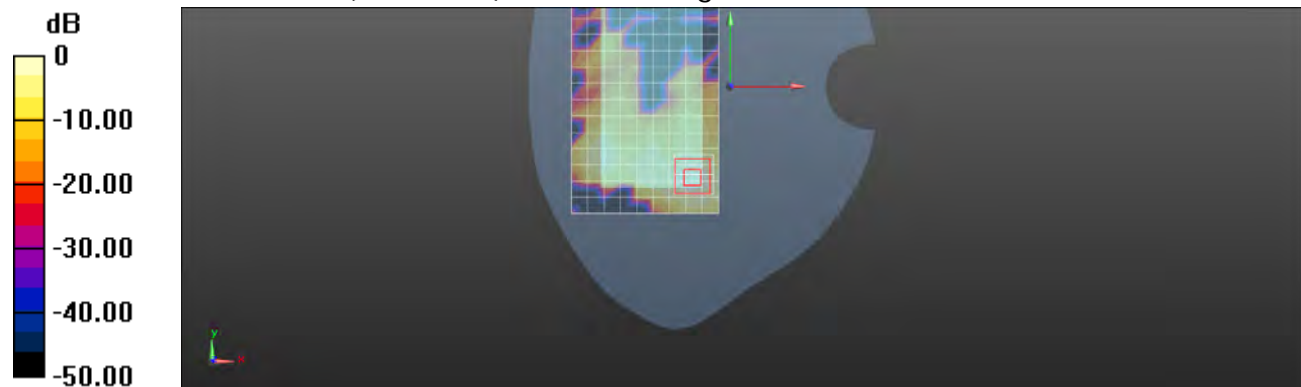
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 1.125 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.488 W/kg

#### SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.020 W/kg

Maximum value of SAR (measured) = 0.127 W/kg


 $0$  dB = 0.127 W/kg = -8.96 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

Member of SGS Group

Date: 2013/5/18

### Hotspot mode\_Back side\_WLAN802.11n(40M)5.5G\_CH102

Communication System: WLAN 5G (FCC); Frequency: 5510 MHz

 Medium parameters used:  $f = 5510$  MHz;  $\sigma = 5.746$  S/m;  $\epsilon_r = 48.881$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.63, 3.63, 3.63); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.260 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

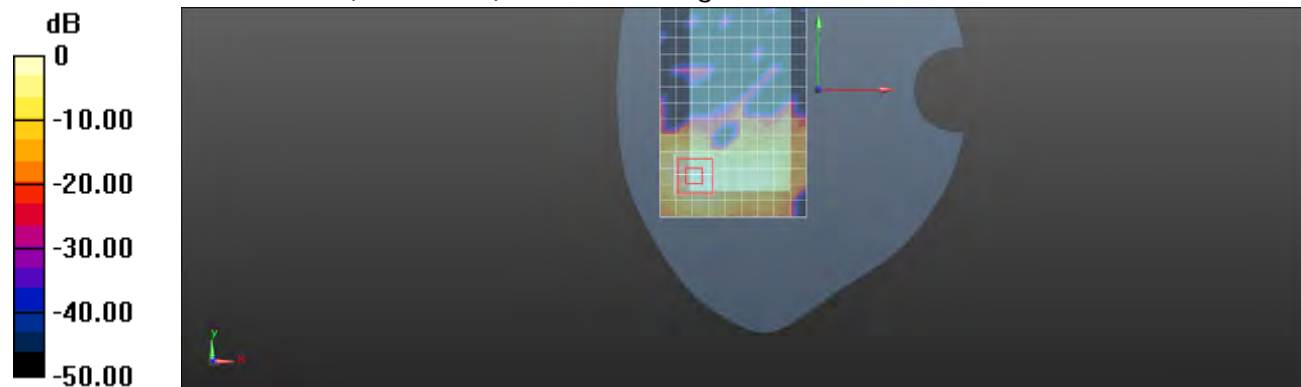
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.540 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.704 W/kg

#### SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.053 W/kg

Maximum value of SAR (measured) = 0.318 W/kg


 $0$  dB = 0.318 W/kg = -4.98 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Back side\_WLAN802.11n(40M)5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.874$  S/m;  $\epsilon_r = 48.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.354 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

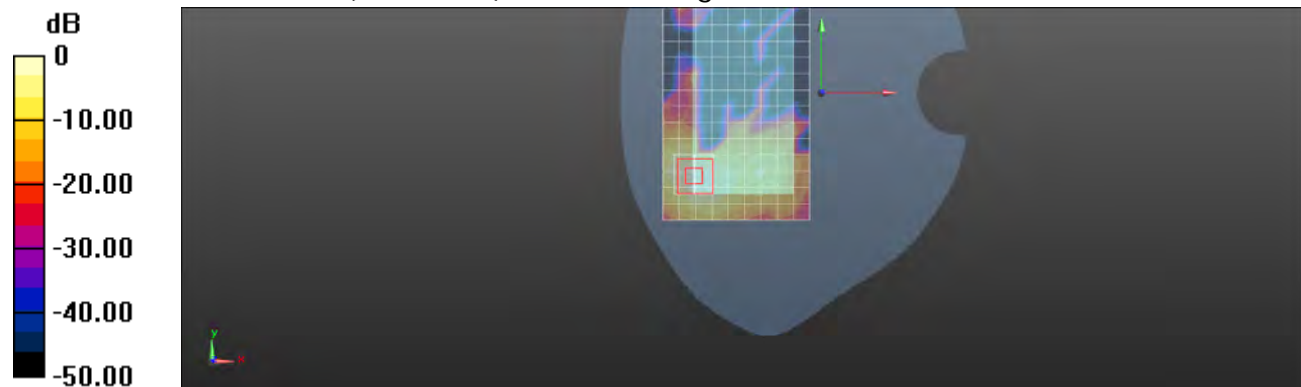
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.521V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.760 W/kg

#### SAR(1 g) = 0.184 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.390 W/kg



0 dB = 0.390 W/kg = -4.09 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Back side\_WLAN802.11n(40M)5.5G\_CH134

Communication System: WLAN 5G (FCC); Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.991$  S/m;  $\epsilon_r = 48.541$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.263 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

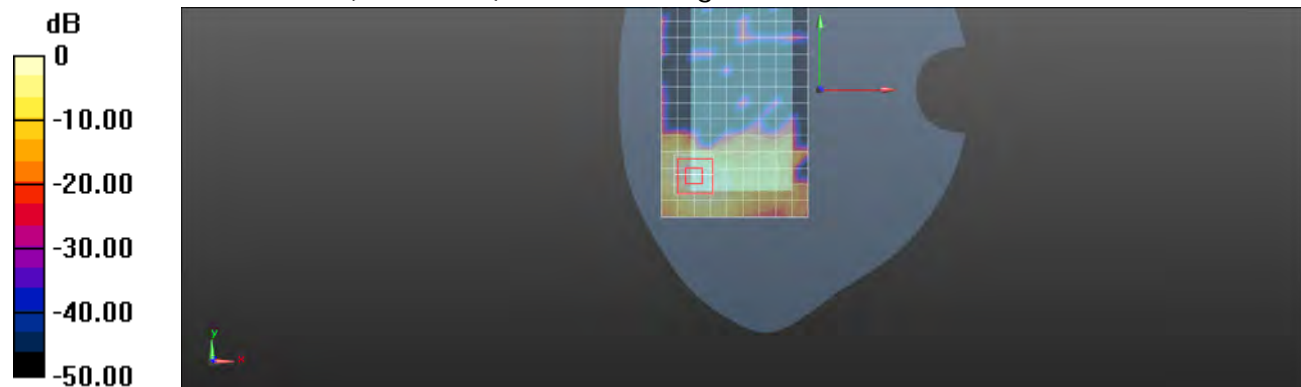
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.532 V/m; Power Drift =0.01 dB

Peak SAR (extrapolated) = 0.719 W/kg

#### SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.049 W/kg

Maximum value of SAR (measured) = 0.311 W/kg



0 dB = 0.311 W/kg = -5.07 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

 Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.874$  S/m;  $\epsilon_r = 48.72$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.281 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

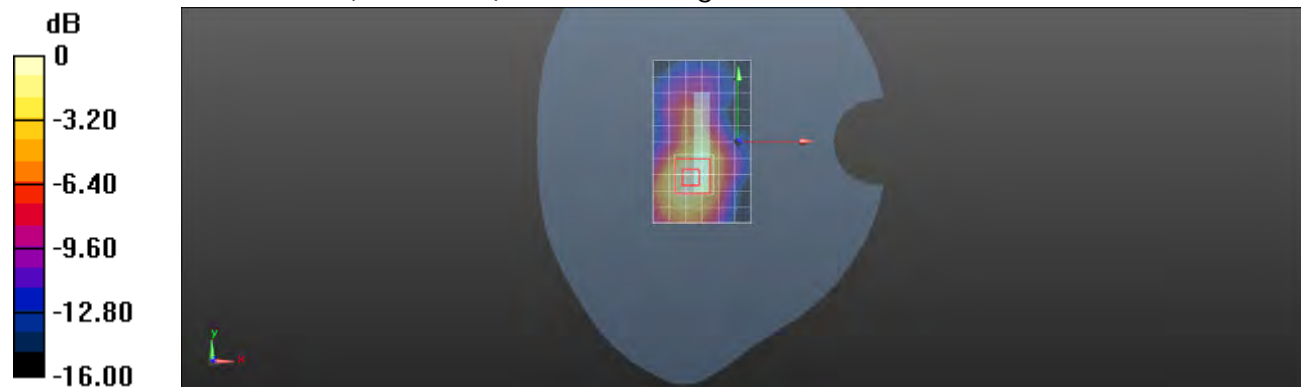
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.107 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.671 W/kg

#### SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.062 W/kg

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


 $0$  dB = 0.310 W/kg = -5.09 dBW/kg

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Date: 2013/5/18

### Hotspot mode\_Left side\_WLAN802.11n(40M) 5.5G\_CH118

Communication System: WLAN 5G (FCC); Frequency: 5590 MHz

Medium parameters used:  $f = 5590 \text{ MHz}$ ;  $\sigma = 5.874 \text{ S/m}$ ;  $\epsilon_r = 48.72$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.39, 3.39, 3.39); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.191 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

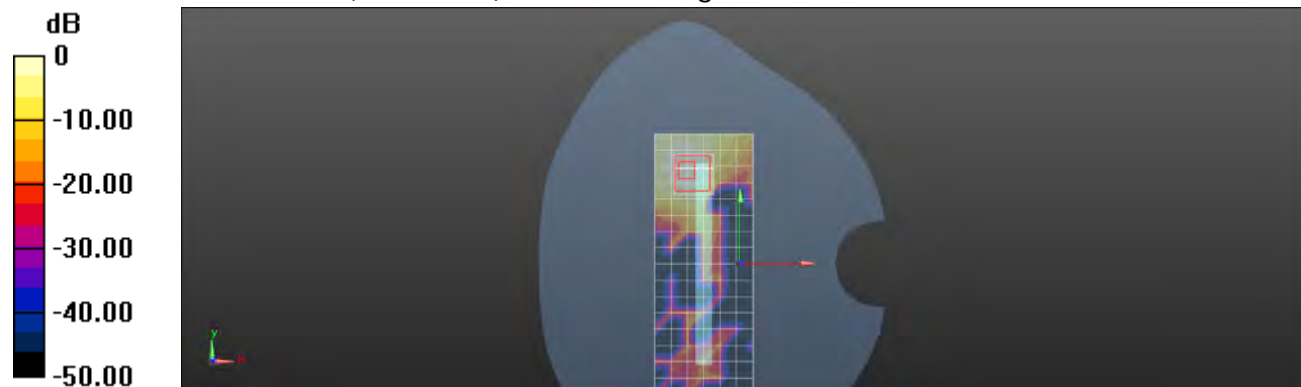
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.597 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.372 W/kg

#### SAR(1 g) = 0.085 W/kg; SAR(10 g) = 0.030 W/kg

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



0 dB = 0.197 W/kg = -7.06 dBW/kg

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Date: 2013/5/20

### RE Cheek\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.317 \text{ S/m}$ ;  $\epsilon_r = 35.122$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.433 W/kg

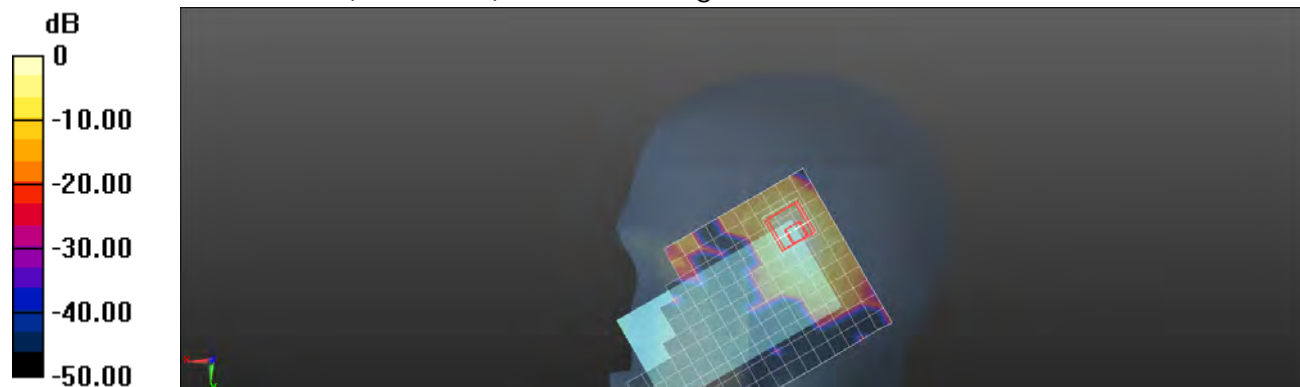
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.769 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.945 W/kg

**SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.067 W/kg**

Maximum value of SAR (measured) = 0.512 W/kg



0 dB = 0.512 W/kg = -2.91 dBW/kg

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Date: 2013/5/20

### RE Tilt\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.317$  S/m;  $\epsilon_r = 35.122$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.492 W/kg

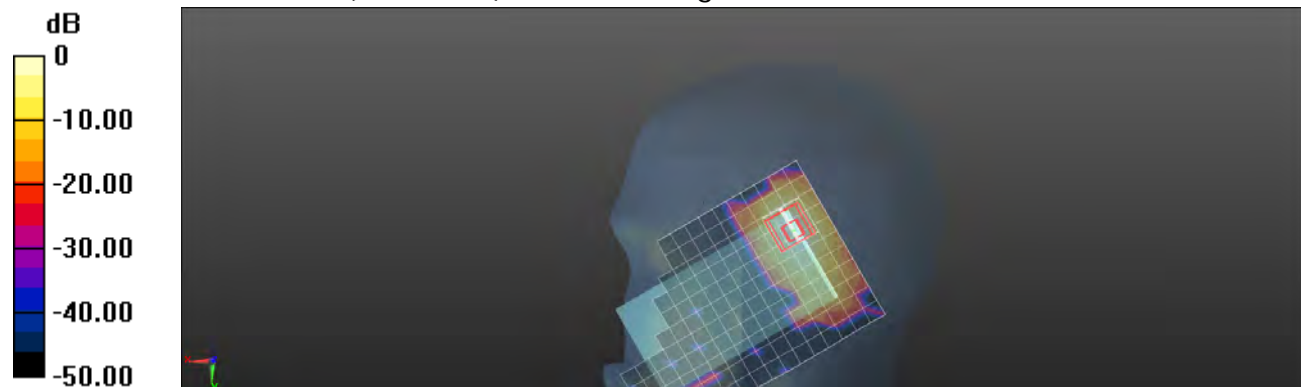
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.756 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.087 W/kg**

Maximum value of SAR (measured) = 0.567 W/kg



0 dB = 0.567 W/kg = -2.46 dBW/kg

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Date: 2013/5/20

### LE Cheek\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.317 \text{ S/m}$ ;  $\epsilon_r = 35.122$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.502 W/kg

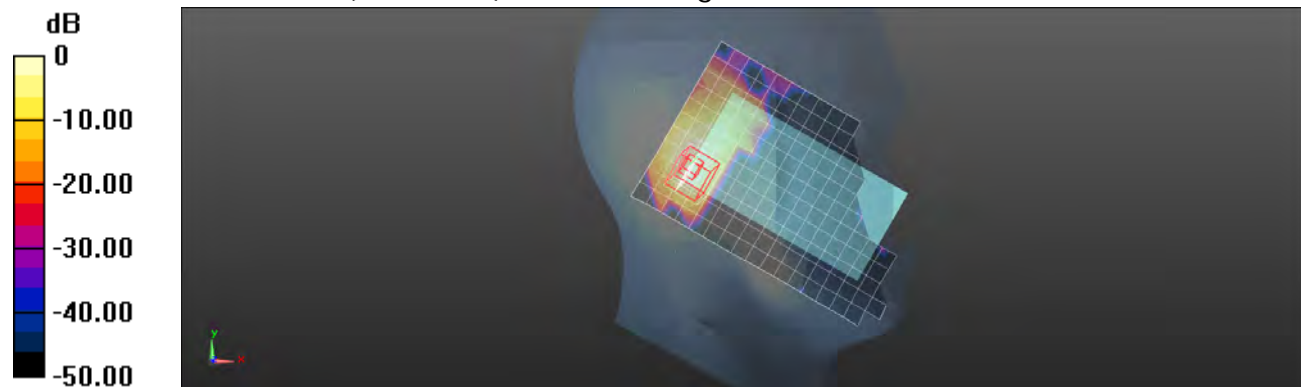
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.293 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.944 W/kg

**SAR(1 g) = 0.255 W/kg; SAR(10 g) = 0.074 W/kg**

Maximum value of SAR (measured) = 0.535 W/kg



0 dB = 0.535 W/kg = -2.72 dBW/kg

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Date: 2013/5/20

### LE Tilt\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.317 \text{ S/m}$ ;  $\epsilon_r = 35.122$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.566 W/kg

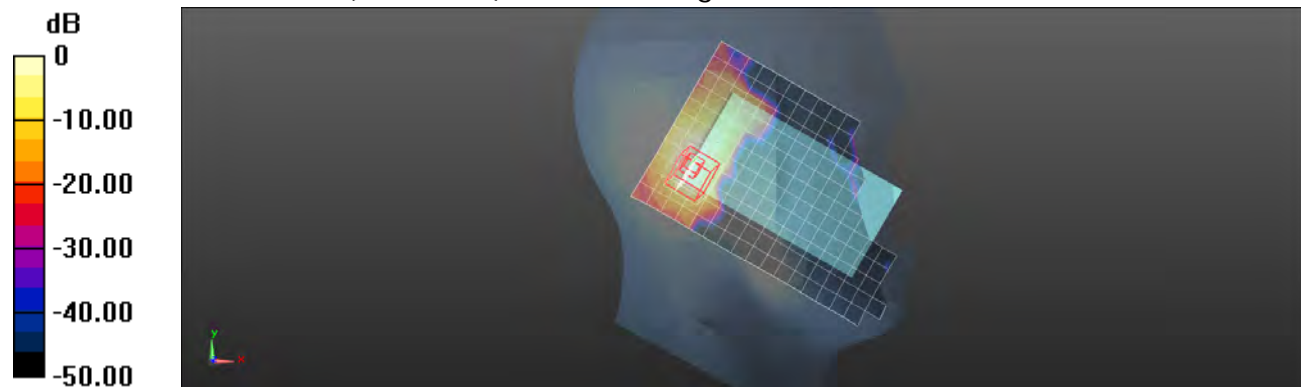
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.582 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.098 W/kg**

Maximum value of SAR (measured) = 0.621 W/kg



0 dB = 0.621 W/kg = -2.07 dBW/kg

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2013/5/20

### LE Tilt\_WLAN802.11a 5.8G\_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 5.373 \text{ S/m}$ ;  $\epsilon_r = 35.031$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.544 W/kg

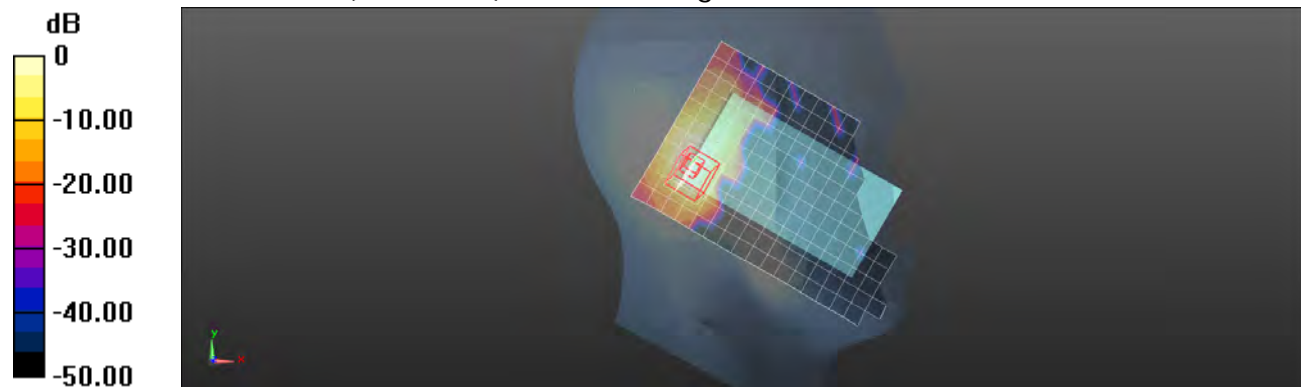
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 7.132 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.092 W/kg**

Maximum value of SAR (measured) = 0.592 W/kg



0 dB = 0.592 W/kg = -2.28 dBW/kg

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Date: 2013/5/20

### LE Tilt\_WLAN802.11a 5.8G\_CH161

Communication System: WLAN 5G (FCC); Frequency: 5805 MHz

 Medium parameters used:  $f = 5805$  MHz;  $\sigma = 5.401$  S/m;  $\epsilon_r = 34.992$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.487 W/kg

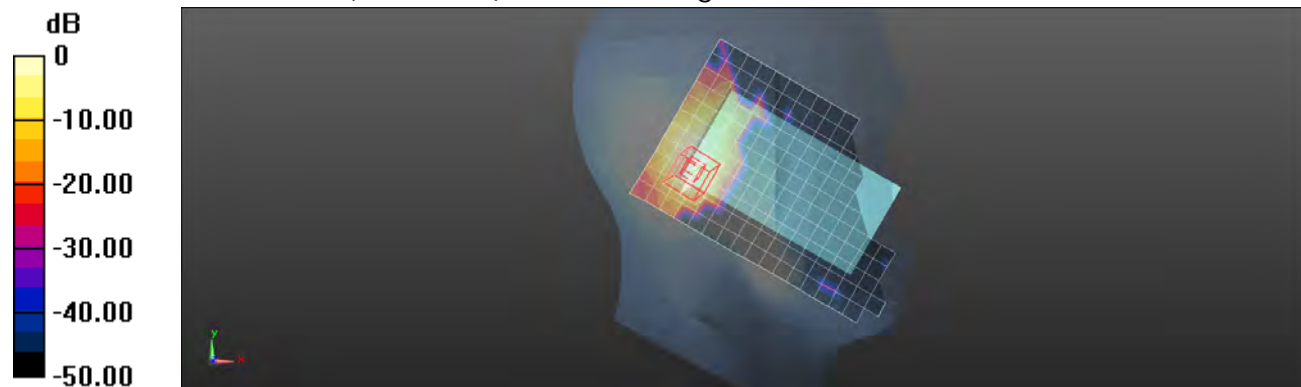
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.584 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.087 W/kg**

Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.595 W/kg = -2.25 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2013/5/20

### Hotspot mode\_ Front side\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.087 \text{ S/m}$ ;  $\epsilon_r = 48.419$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 0.0739 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

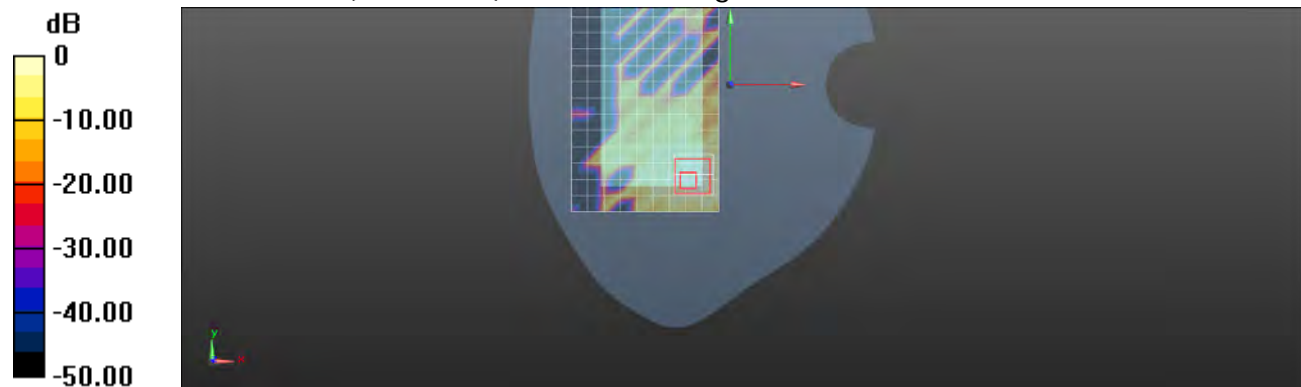
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 0.889 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.598 W/kg

#### SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.017 W/kg

Maximum value of SAR (measured) = 0.0785 W/kg


 $0 \text{ dB} = 0.0785 \text{ W/kg} = -11.05 \text{ dBW/kg}$ 

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2013/5/20

### Hotspot mode\_ Back side\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 6.087$  S/m;  $\epsilon_r = 48.419$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.213 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

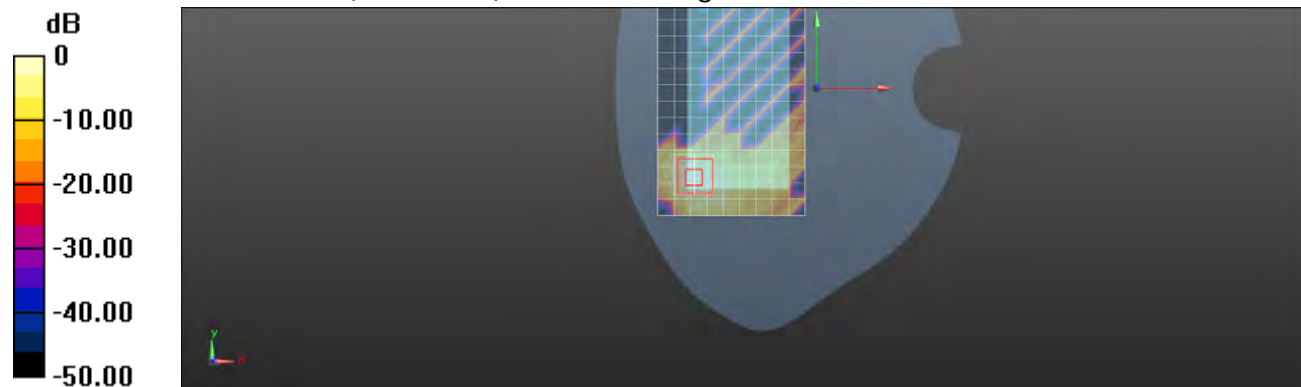
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.722 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.465 W/kg

#### SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.239 W/kg



0 dB = 0.239 W/kg = -6.22 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_ Back side\_WLAN802.11a 5.8G\_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

 Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 6.167 \text{ S/m}$ ;  $\epsilon_r = 48.331$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

 $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 0.196 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

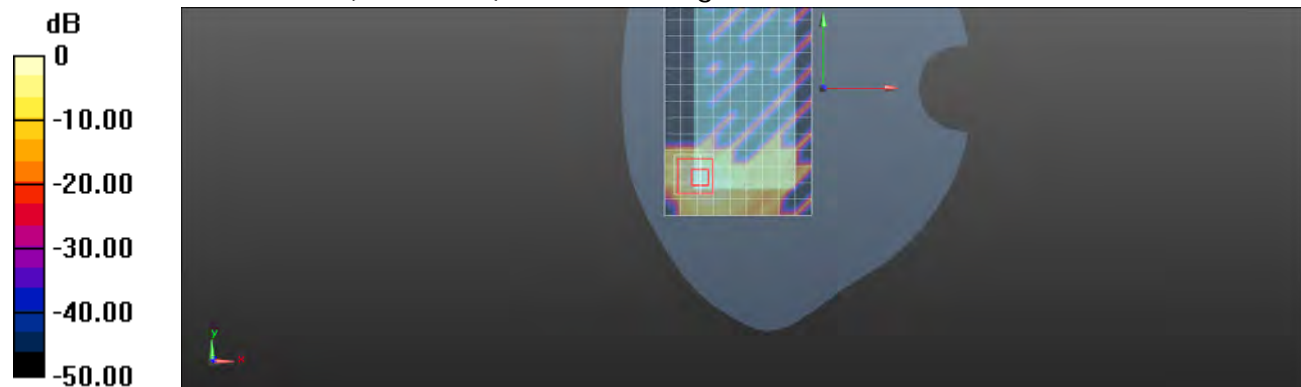
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 0.751 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.390 W/kg

#### SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.028 W/kg

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


 $0 \text{ dB} = 0.228 \text{ W/kg} = -6.42 \text{ dBW/kg}$ 

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Date: 2013/5/20

### Hotspot mode\_ Back side\_WLAN802.11a 5.8G\_CH161

Communication System: WLAN 5G (FCC); Frequency: 5805 MHz

Medium parameters used:  $f = 5805$  MHz;  $\sigma = 6.197$  S/m;  $\epsilon_r = 48.312$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.173 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

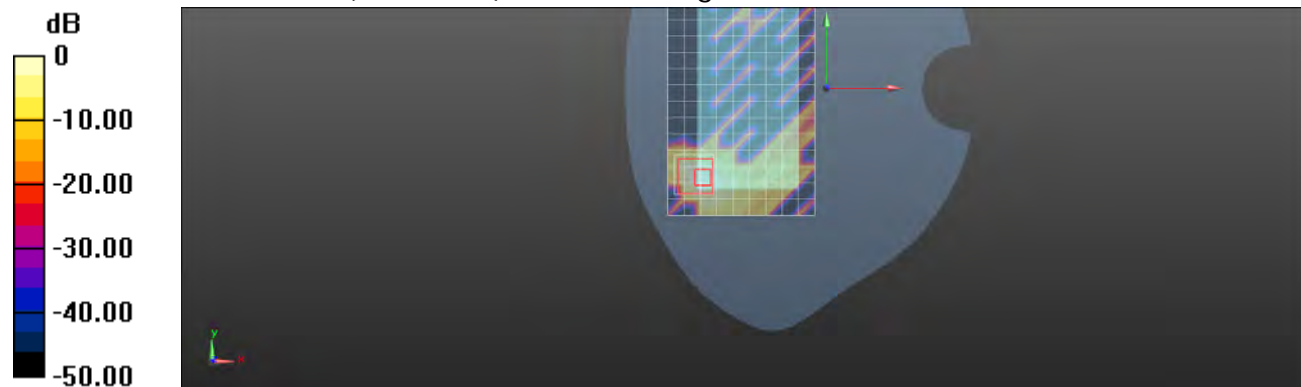
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 0.766 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.459 W/kg

#### SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.024 W/kg

Maximum value of SAR (measured) = 0.190 W/kg



0 dB = 0.190 W/kg = -7.21 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_Top side\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.087 \text{ S/m}$ ;  $\epsilon_r = 48.419$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (5x10x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.121 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

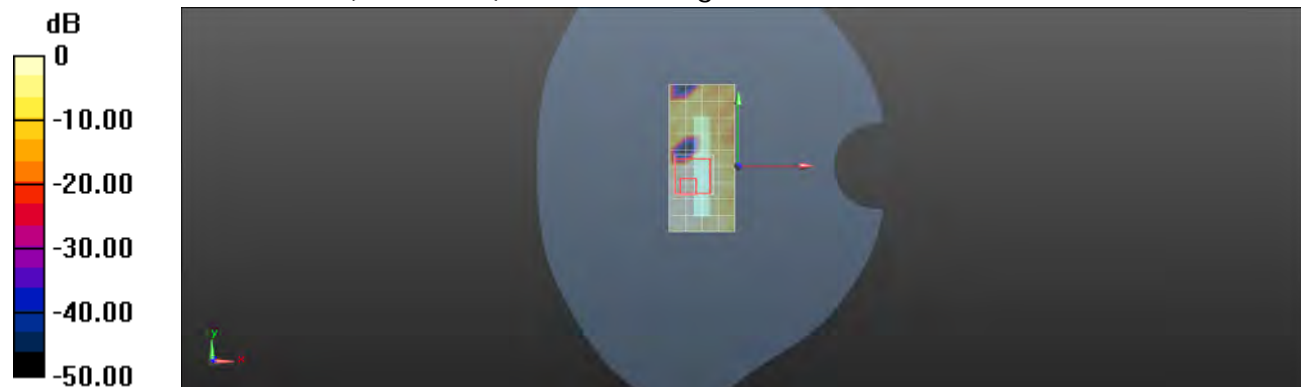
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.359 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.407 W/kg

#### SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.126 W/kg



0 dB = 0.126 W/kg = -9.00 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_Left side\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.087 \text{ S/m}$ ;  $\epsilon_r = 48.419$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (5x17x1): Measurement grid:

 $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 0.116 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

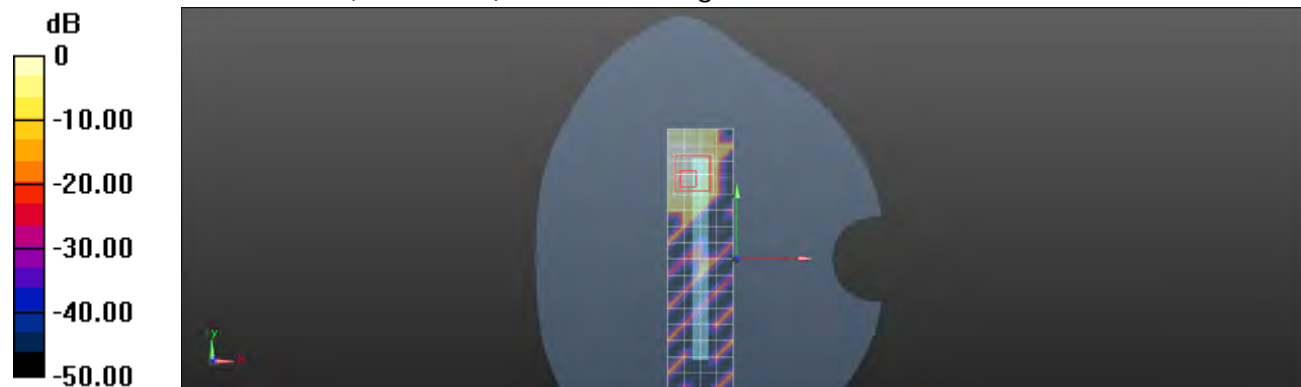
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 0.825 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.587 W/kg

#### SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.019 W/kg

Maximum value of SAR (measured) = 0.114 W/kg


 $0 \text{ dB} = 0.114 \text{ W/kg} = -9.43 \text{ dBW/kg}$ 

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Date: 2013/5/20

### RE Cheek\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.317 \text{ S/m}$ ;  $\epsilon_r = 35.122$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.536 W/kg

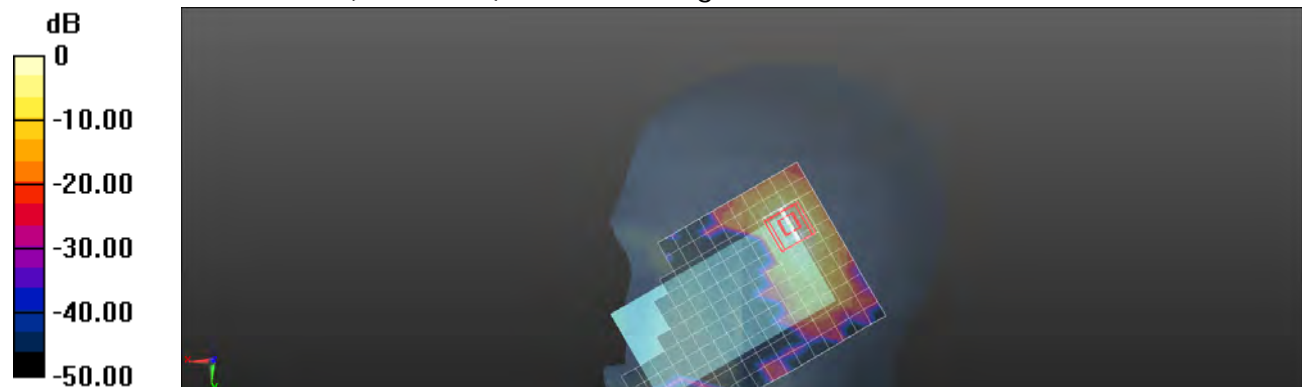
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 7.064 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.084 W/kg**

Maximum value of SAR (measured) = 0.593 W/kg



0 dB = 0.593 W/kg = -2.27 dBW/kg

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Date: 2013/5/20

### RE Tilt\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745$  MHz;  $\sigma = 5.317$  S/m;  $\epsilon_r = 35.122$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.516 W/kg

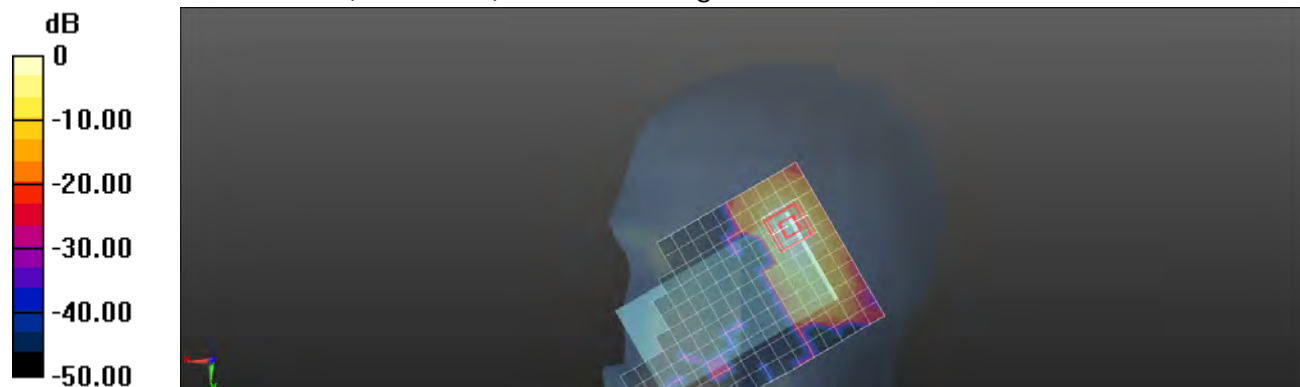
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.917 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.21 W/kg

**SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.087 W/kg**

Maximum value of SAR (measured) = 0.579 W/kg



0 dB = 0.579 W/kg = -2.37 dBW/kg

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Date: 2013/5/20

### LE Cheek\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.317 \text{ S/m}$ ;  $\epsilon_r = 35.122$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.523 W/kg

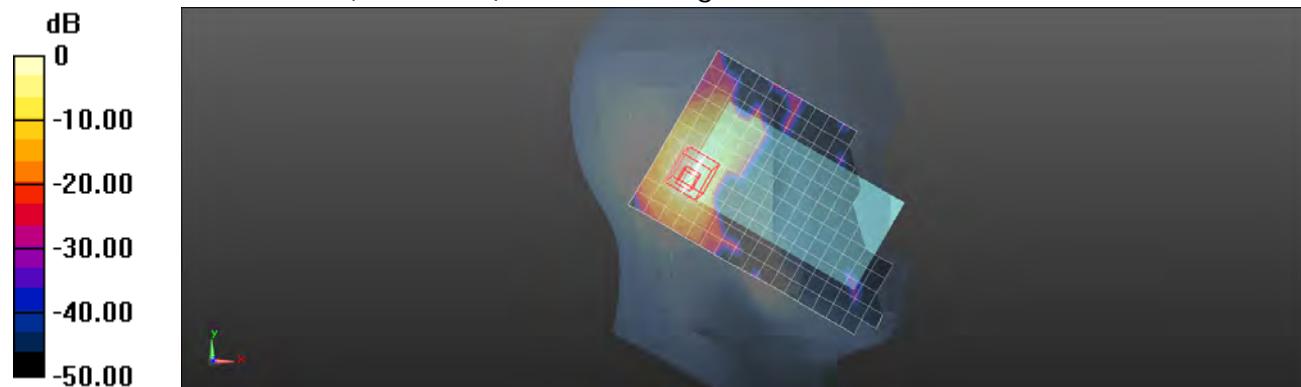
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.801 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.096 W/kg**

Maximum value of SAR (measured) = 0.553 W/kg



0 dB = 0.553 W/kg = -2.57 dBW/kg

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Date: 2013/5/20

### LE Tilt\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.317 \text{ S/m}$ ;  $\epsilon_r = 35.122$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.555 W/kg

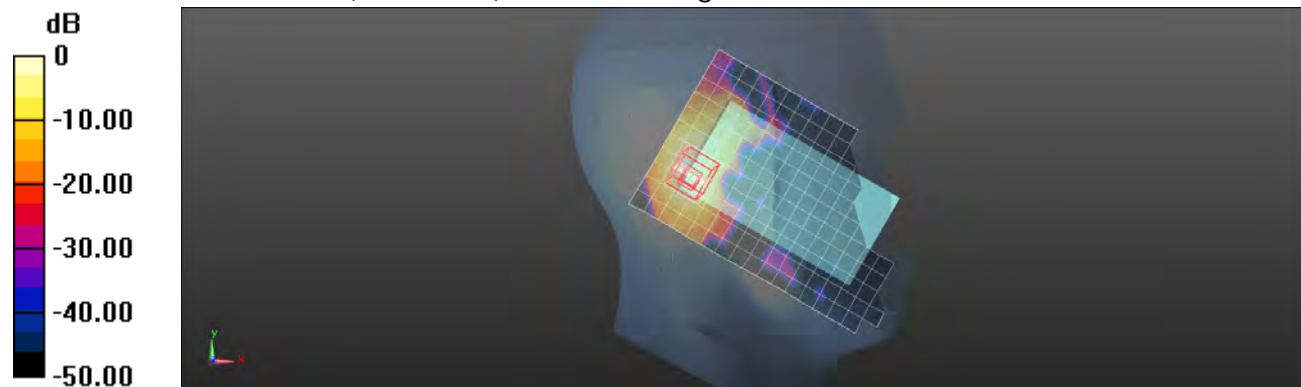
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.928 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.14 W/kg

**SAR(1 g) = 0.324 W/kg; SAR(10 g) = 0.111 W/kg**

Maximum value of SAR (measured) = 0.643 W/kg



0 dB = 0.643 W/kg = -1.92 dBW/kg

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Date: 2013/5/20

### LE Tilt\_WLAN802.11n(20M) 5.8G\_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

 Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 5.373 \text{ S/m}$ ;  $\epsilon_r = 35.031$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.594 W/kg

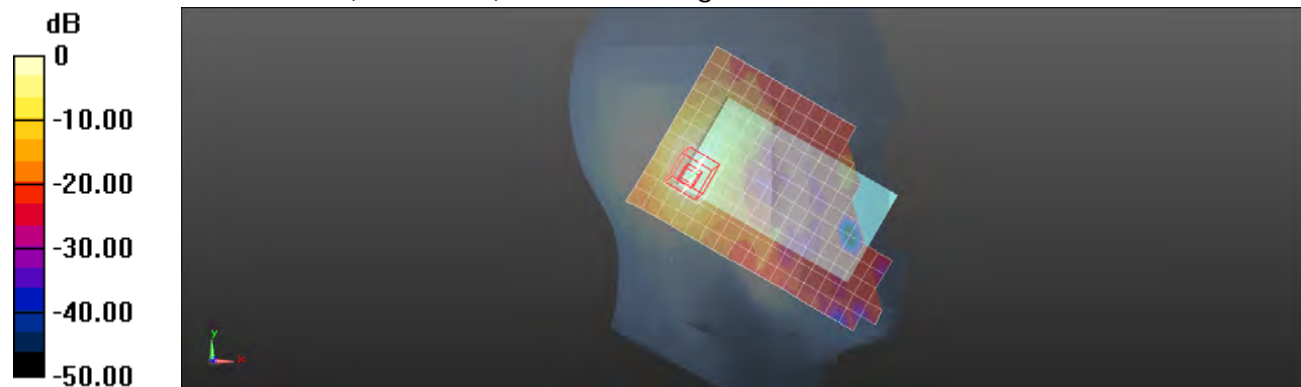
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 8.259 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.135 W/kg**

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



0 dB = 0.686 W/kg = -1.64 dBW/kg

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Date: 2013/5/20

### LE Tilt\_WLAN802.11n(20M) 5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

Medium parameters used:  $f = 5825 \text{ MHz}$ ;  $\sigma = 5.431 \text{ S/m}$ ;  $\epsilon_r = 34.957$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.504 W/kg

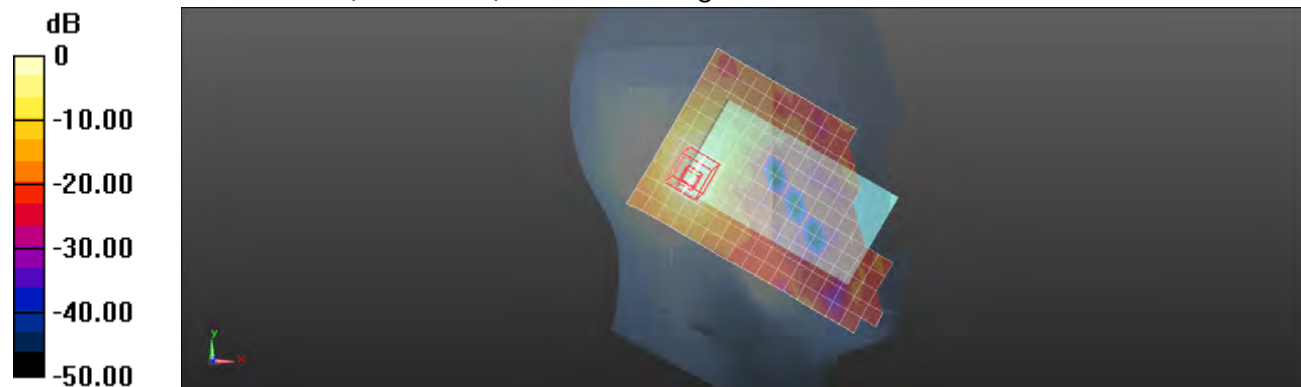
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 7.410 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.311 W/kg; SAR(10 g) = 0.116 W/kg**

Maximum value of SAR (measured) = 0.591 W/kg



0 dB = 0.591 W/kg = -2.28 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_ Front side\_WLAN802.11n(20M)5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.087 \text{ S/m}$ ;  $\epsilon_r = 48.419$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.0756 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.772 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.274 W/kg

#### SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0777 W/kg



0 dB = 0.0777 W/kg = -11.10 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_ Back side\_WLAN802.11n(20M)5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.087 \text{ S/m}$ ;  $\epsilon_r = 48.419$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.177 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.221 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.989 W/kg

#### SAR(1 g) = 0.111 W/kg; SAR(10 g) = 0.034 W/kg

Maximum value of SAR (measured) = 0.220 W/kg



0 dB = 0.220 W/kg = -6.58 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_ Back side\_WLAN802.11n(20M)5.8G\_CH157

Communication System: WLAN 5G (FCC); Frequency: 5785 MHz

Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 6.167 \text{ S/m}$ ;  $\epsilon_r = 48.331$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.200 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

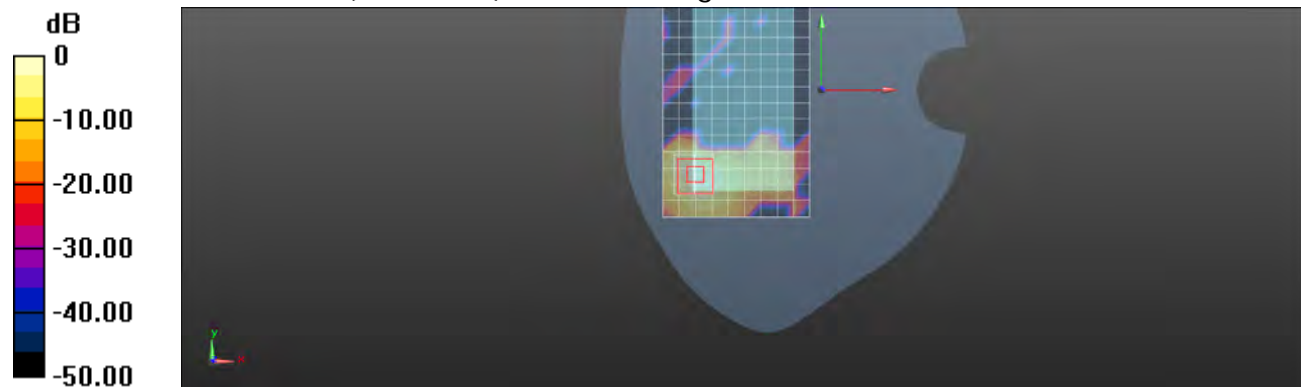
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.237 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.476 W/kg

#### SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.032 W/kg

Maximum value of SAR (measured) = 0.239 W/kg



0 dB = 0.239 W/kg = -6.22 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_ Back side\_WLAN802.11n(20M)5.8G\_CH165

Communication System: WLAN 5G (FCC); Frequency: 5825 MHz

 Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.221$  S/m;  $\epsilon_r = 48.294$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.166 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

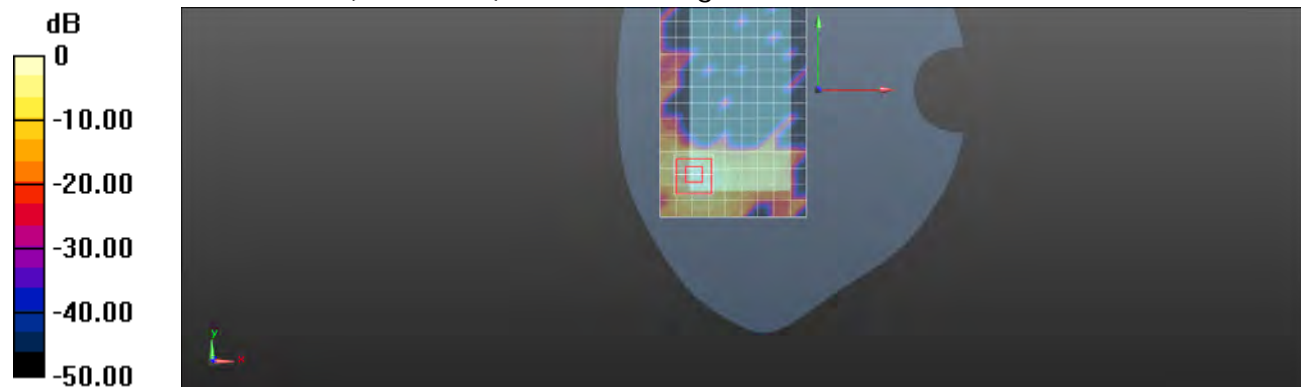
dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.510 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.352 W/kg

#### SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.025 W/kg

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



0 dB = 0.187 W/kg = -7.28 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_Top side\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.087 \text{ S/m}$ ;  $\epsilon_r = 48.419$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

$dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.142 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

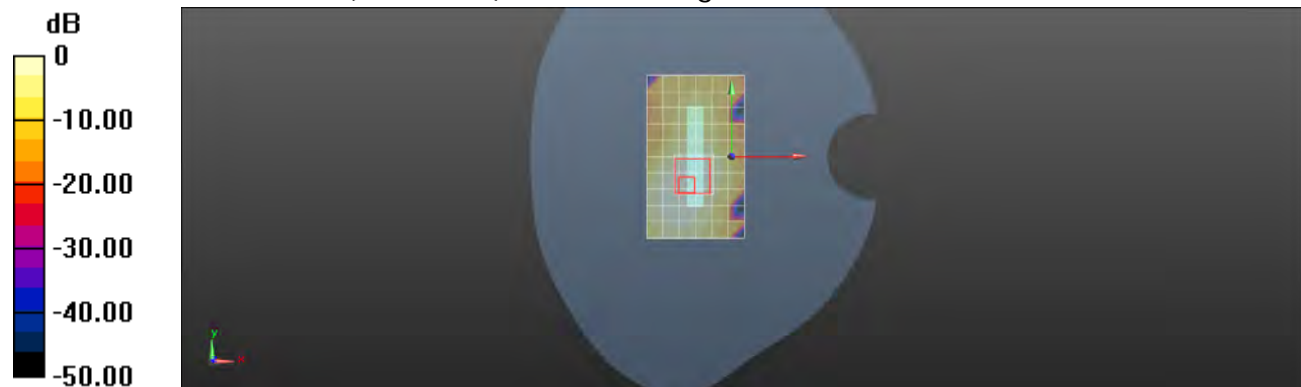
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.667 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.279 W/kg

#### SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.026 W/kg

Maximum value of SAR (measured) = 0.146 W/kg



0 dB = 0.146 W/kg = -8.36 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_Left side\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G (FCC); Frequency: 5745 MHz

 Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.087 \text{ S/m}$ ;  $\epsilon_r = 48.419$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

 $dx=10\text{mm}$ ,  $dy=10\text{mm}$ 

Maximum value of SAR (measured) = 0.0972 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

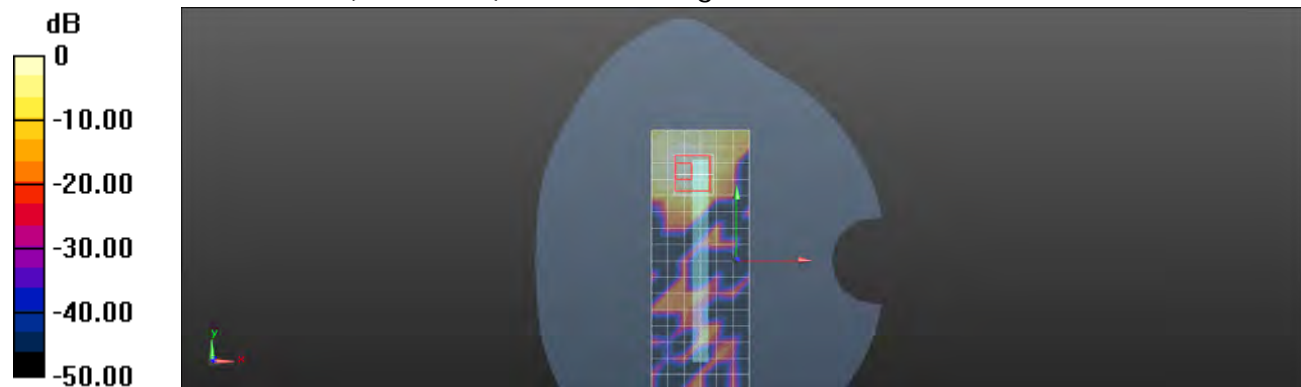
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 0.152 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.234 W/kg

#### SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.016 W/kg

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


 $0 \text{ dB} = 0.105 \text{ W/kg} = -9.79 \text{ dBW/kg}$ 

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Date: 2013/5/20

### RE Cheek\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used:  $f = 5795$  MHz;  $\sigma = 5.387$  S/m;  $\epsilon_r = 35.014$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.336 W/kg

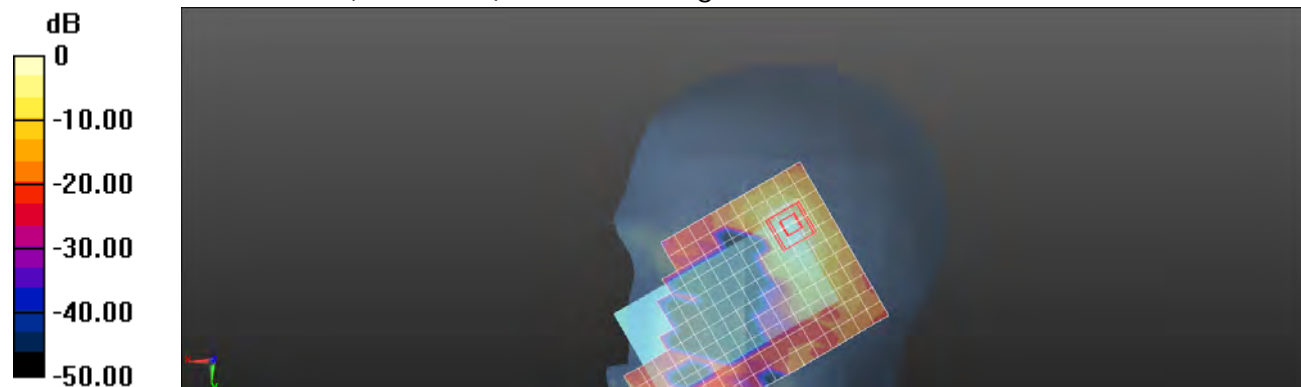
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.143 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.02 W/kg

**SAR(1 g) = 0.233 W/kg; SAR(10 g) = 0.073 W/kg**

Maximum value of SAR (measured) = 0.492 W/kg



0 dB = 0.492 W/kg = -3.08 dBW/kg

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Date: 2013/5/20

### RE Tilt\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

Medium parameters used:  $f = 5795$  MHz;  $\sigma = 5.387$  S/m;  $\epsilon_r = 35.014$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/RE Tilt/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.442 W/kg

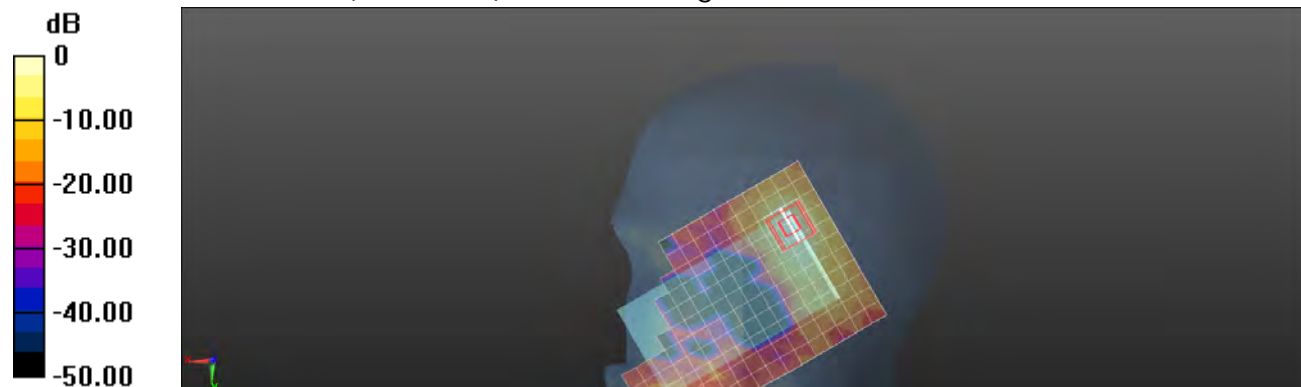
**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.812 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.085 W/kg**

Maximum value of SAR (measured) = 0.549 W/kg



0 dB = 0.549 W/kg = -2.60 dBW/kg

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Date: 2013/5/20

### LE Cheek\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used:  $f = 5795$  MHz;  $\sigma = 5.387$  S/m;  $\epsilon_r = 35.014$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Cheek/Area Scan (12x18x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.470 W/kg

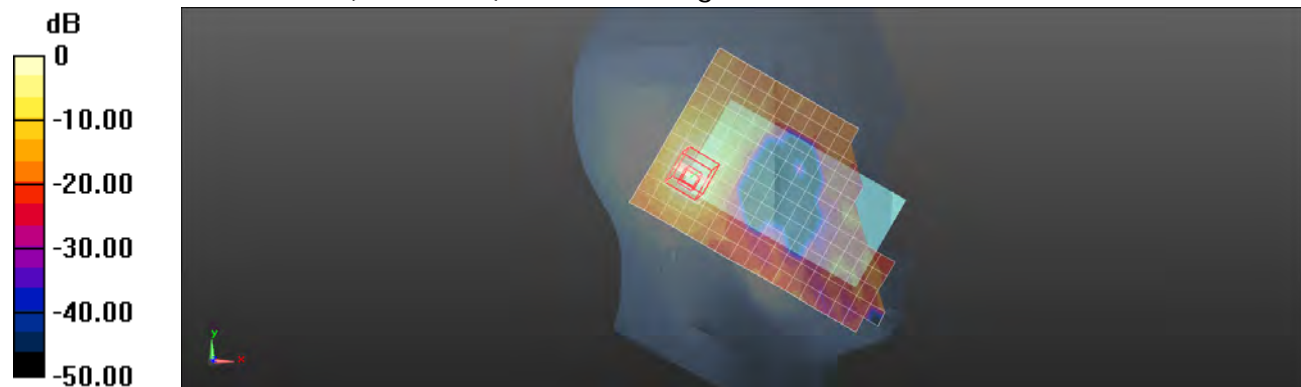
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.077 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.093 W/kg**

Maximum value of SAR (measured) = 0.532 W/kg



0 dB = 0.532 W/kg = -2.74 dBW/kg

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Date: 2013/5/20

### LE Tilt\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 5.331 \text{ S/m}$ ;  $\epsilon_r = 35.09$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1)**: Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.591 W/kg

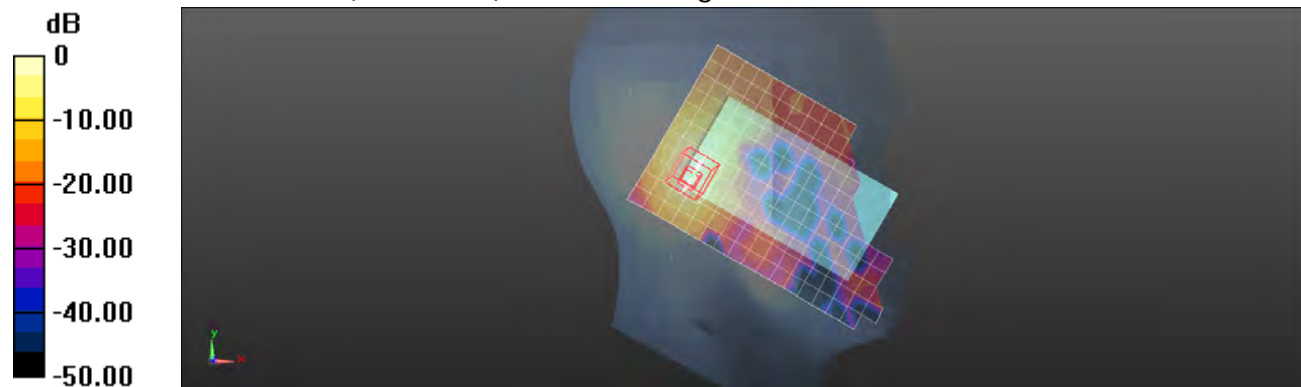
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0**: Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.833 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.127 W/kg**

Maximum value of SAR (measured) = 0.706 W/kg



0 dB = 0.706 W/kg = -1.51 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/5/20

### LE Tilt\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used:  $f = 5795 \text{ MHz}$ ;  $\sigma = 5.387 \text{ S/m}$ ;  $\epsilon_r = 35.014$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

**Configuration/LE Tilt/Area Scan (12x18x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.534 W/kg

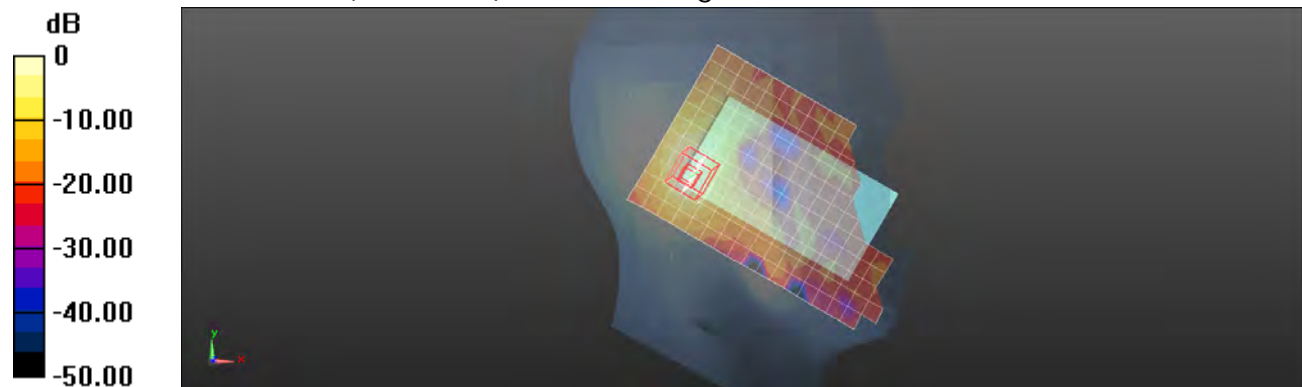
**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.150 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.19 W/kg

**SAR(1 g) = 0.331 W/kg; SAR(10 g) = 0.113 W/kg**

Maximum value of SAR (measured) = 0.634 W/kg



0 dB = 0.634 W/kg = -1.98 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_ Front side\_WLAN802.11n(40M)5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

Medium parameters used:  $f = 5795$  MHz;  $\sigma = 6.183$  S/m;  $\epsilon_r = 48.322$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0555 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 3.18 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.257 W/kg

#### SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.00949 W/kg

Maximum value of SAR (measured) = 0.0641 W/kg



0 dB = 0.0641 W/kg = -11.93 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_ Back side\_WLAN802.11n(40M)5.8G\_CH151

Communication System: WLAN 5G (FCC); Frequency: 5755 MHz

Medium parameters used:  $f = 5755$  MHz;  $\sigma = 6.104$  S/m;  $\epsilon_r = 48.385$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.161 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

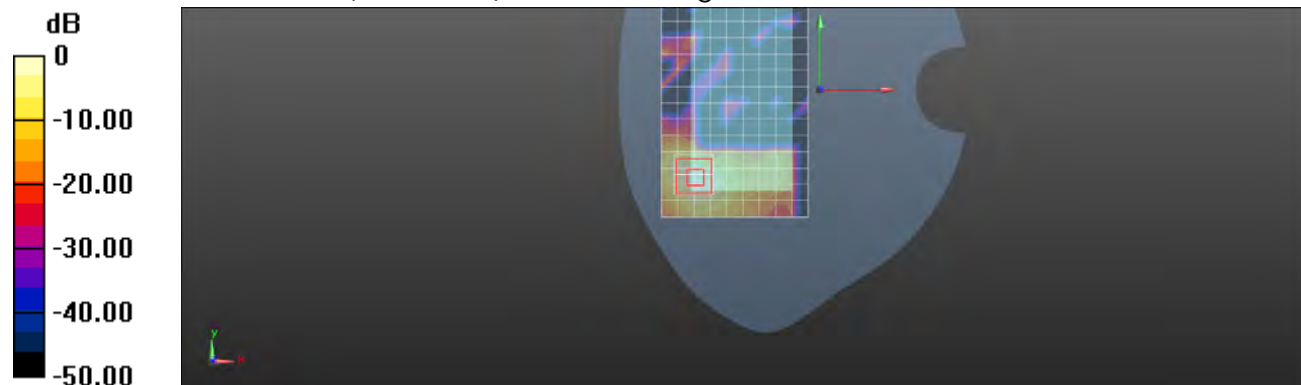
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 3.55 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.390 W/kg

#### SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.193 W/kg



0 dB = 0.193 W/kg = -7.14 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_ Back side\_WLAN802.11n(40M)5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

Medium parameters used:  $f = 5795$  MHz;  $\sigma = 6.183$  S/m;  $\epsilon_r = 48.322$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (10x16x1): Measurement grid:

$dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.127 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

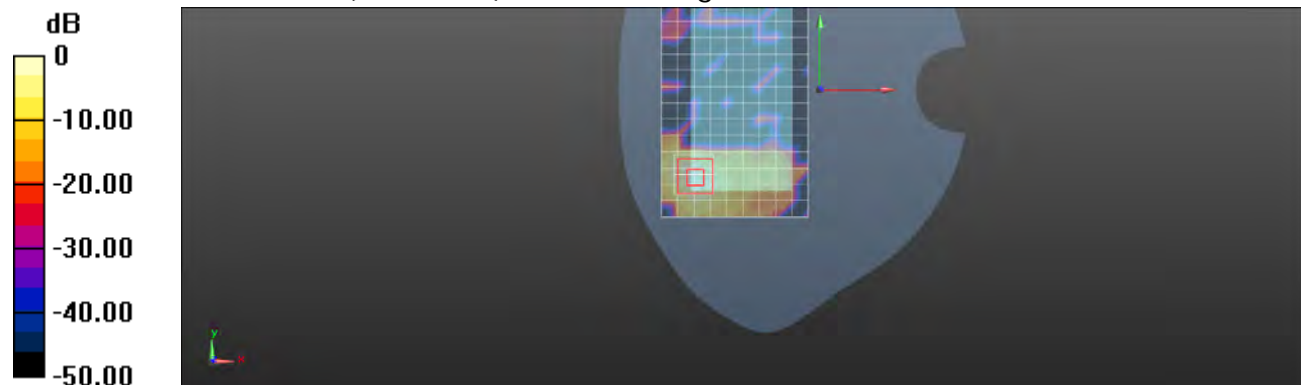
$dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 3.42 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.314 W/kg

#### SAR(1 g) = 0.072 W/kg; SAR(10 g) = 0.022 W/kg

Maximum value of SAR (measured) = 0.163 W/kg



0 dB = 0.163 W/kg = -7.88 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used:  $f = 5795$  MHz;  $\sigma = 6.183$  S/m;  $\epsilon_r = 48.322$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x11x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0909 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

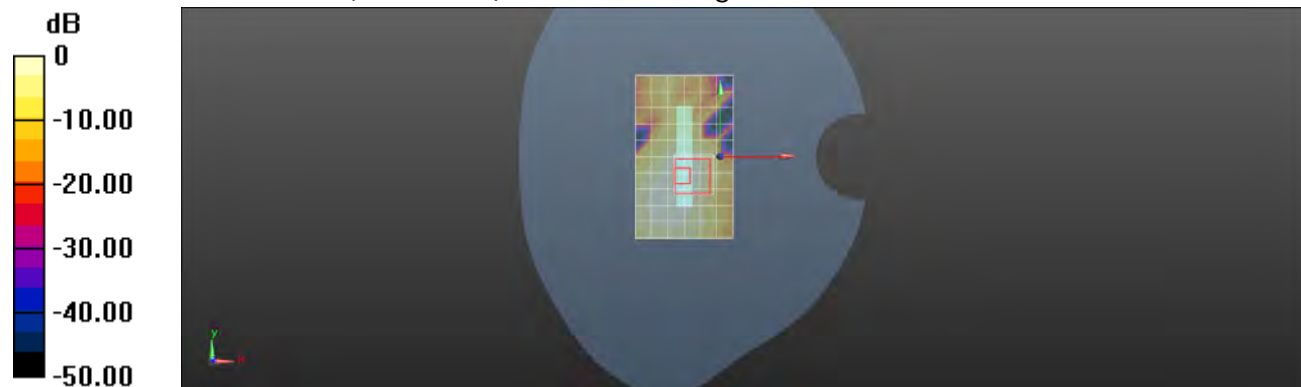
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 3.056 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.229 W/kg

#### SAR(1 g) = 0.037 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0929 W/kg


 $0$  dB = 0.0929 W/kg = -10.32 dBW/kg

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Date: 2013/5/20

### Hotspot mode\_Left side\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G (FCC); Frequency: 5795 MHz

 Medium parameters used:  $f = 5795$  MHz;  $\sigma = 6.183$  S/m;  $\epsilon_r = 48.322$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

#### Configuration/Body-worn/Area Scan (7x17x1): Measurement grid:

 $dx=10$ mm,  $dy=10$ mm

Maximum value of SAR (measured) = 0.0728 W/kg

#### Configuration/Body-worn/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

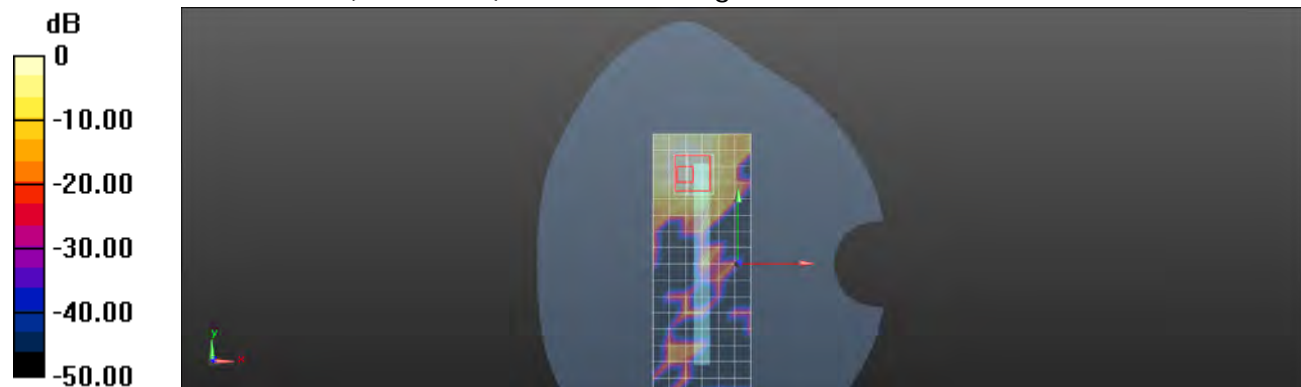
 $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 4.11 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.222 W/kg

#### SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0724 W/kg


 $0$  dB = 0.0724 W/kg = -11.40 dBW/kg

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**Type No.: PM-0481-BV**

Date: 2013/7/12

**RE Cheek\_CH251**

Communication System: GSM; Frequency: 848.8 MHz

 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 41.742$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

**DASY Configuration:**

- Probe: EX3DV4 - SN3848; ConvF(9.67, 9.67, 9.67); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (71x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.439 W/kg

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

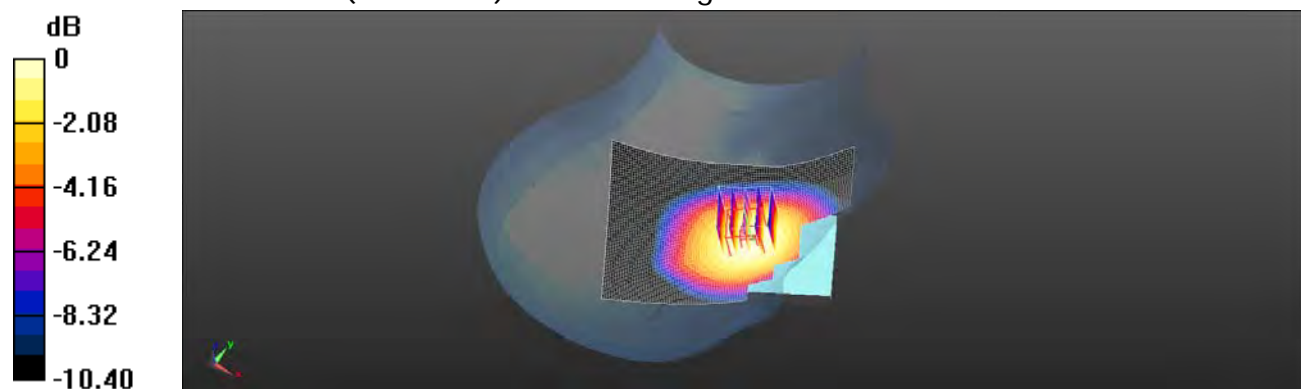
dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.997 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.482 W/kg

**SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.271 W/kg**

Maximum value of SAR (measured) = 0.433 W/kg



0 dB = 0.433 W/kg = -3.64 dBW/kg

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Date: 2013/7/12

### Hotspot mode\_Back side\_CH251

Communication System: GPRS (Class 12); Frequency: 848.8 MHz

 Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.999$  S/m;  $\epsilon_r = 56.269$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.43, 9.43, 9.43); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/Body-worn/Area Scan (71x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.949 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

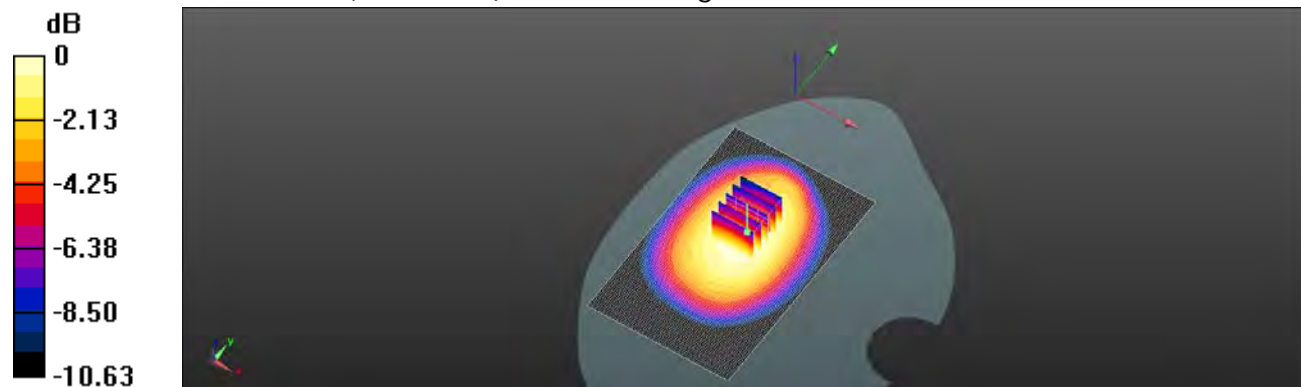
dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.089 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.07 W/kg

**SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.601 W/kg**

Maximum value of SAR (measured) = 0.960 W/kg



0 dB = 0.960 W/kg = -0.18 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/7/12

## RE Cheek\_CH810

Communication System: GSM; Frequency: 1909.8 MHz

 Medium parameters used:  $f = 1910$  MHz;  $\sigma = 1.39$  S/m;  $\epsilon_r = 41.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.13, 8.13, 8.13); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (71x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.571 W/kg

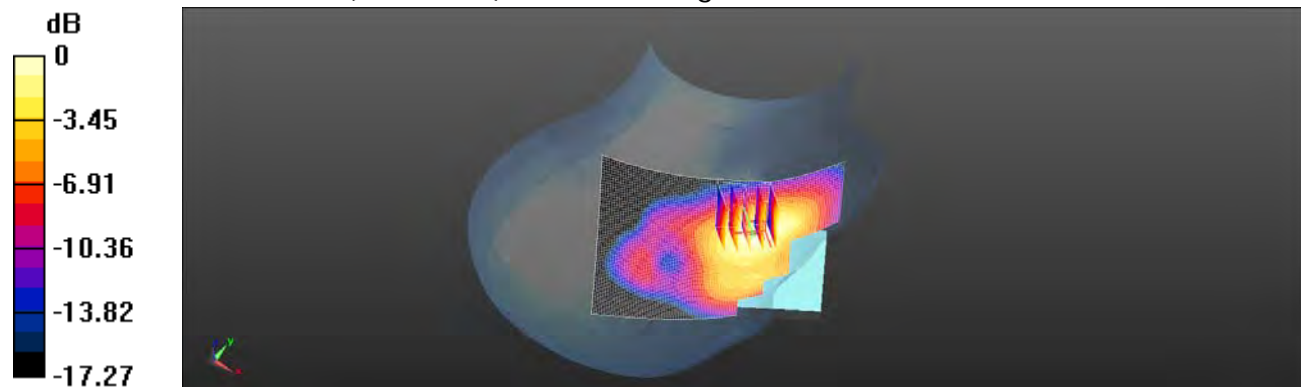
**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.600 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.659 W/kg

**SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.269 W/kg**

Maximum value of SAR (measured) = 0.553 W/kg



0 dB = 0.553 W/kg = -2.57 dBW/kg

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Date: 2013/7/12

### Hotspot mode\_Front side\_CH810\_repeated with headset

Communication System: GPRS (Class 12); Frequency: 1909.8 MHz

Medium parameters used:  $f = 1910 \text{ MHz}$ ;  $\sigma = 1.548 \text{ S/m}$ ;  $\epsilon_r = 51.99$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.41, 7.41, 7.41); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/Body-worn/Area Scan (71x111x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.64 W/kg

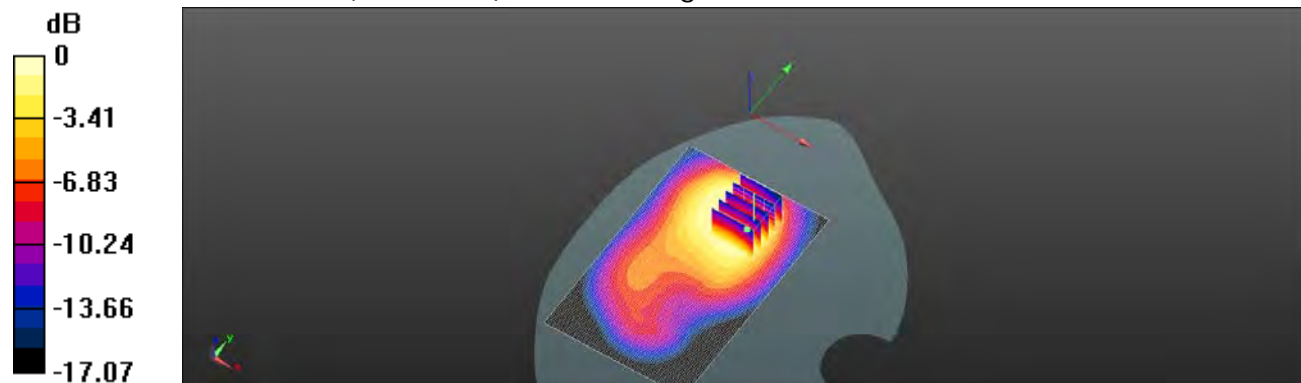
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 13.966 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.09 W/kg

**SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.757 W/kg**

Maximum value of SAR (measured) = 1.63 W/kg

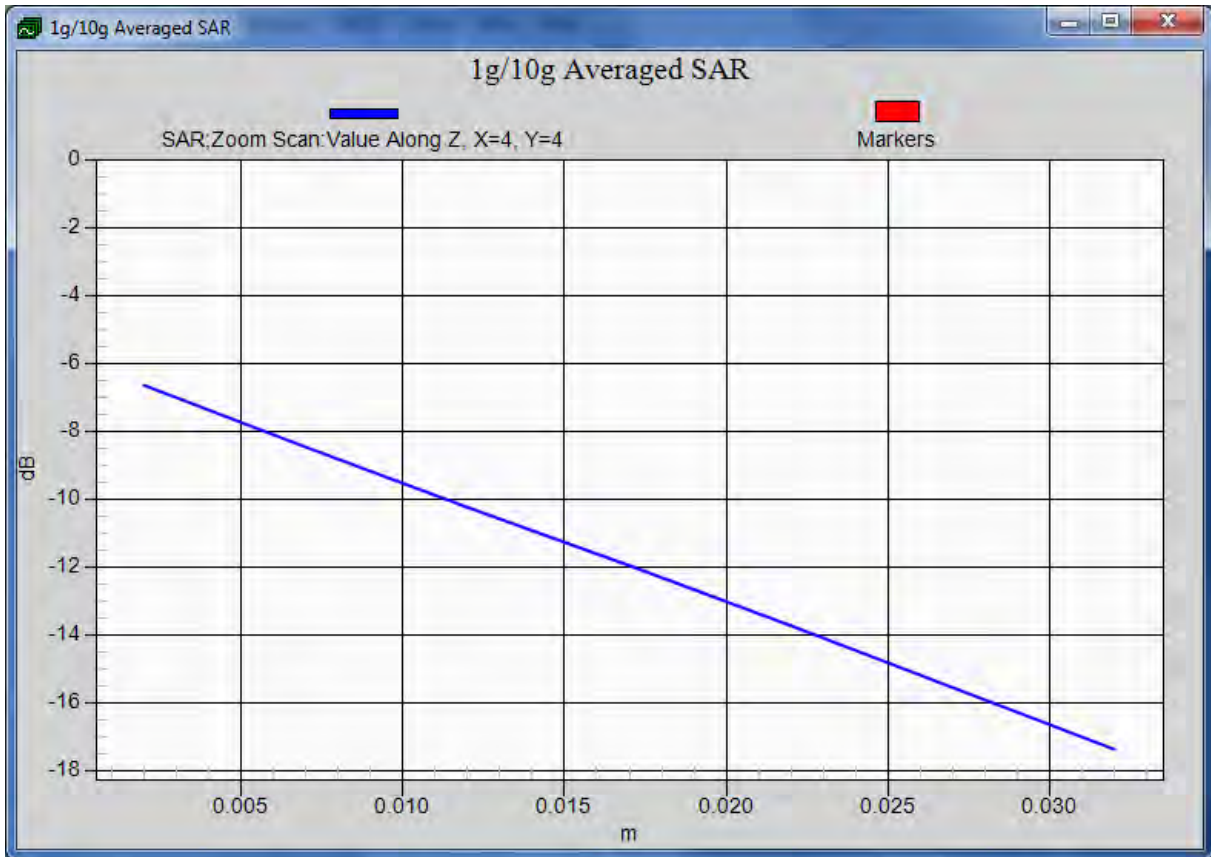


0 dB = 1.63 W/kg = 2.12 dBW/kg

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Date: 2013/7/12

## RE Cheek\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 41.024$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.13, 8.13, 8.13); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (71x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.29 W/kg

**Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

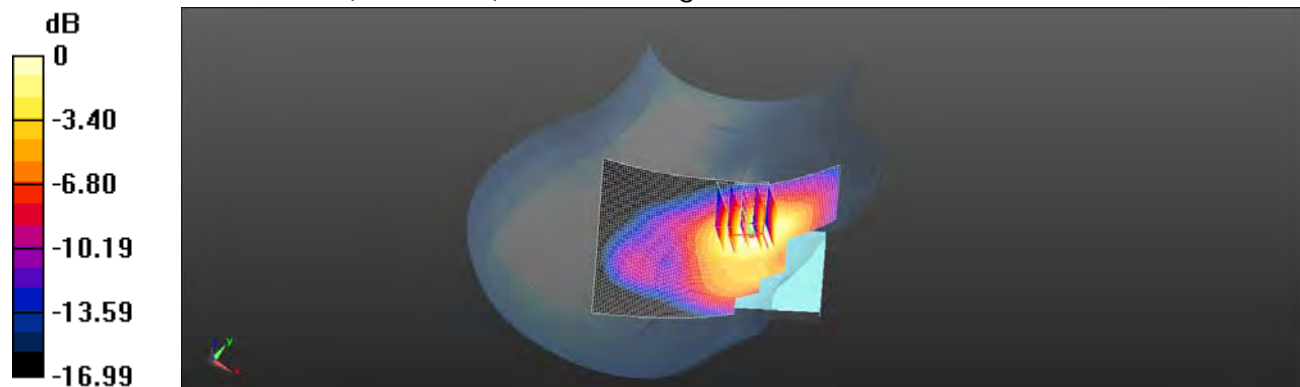
dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.742 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.50 W/kg

**SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.592 W/kg**

Maximum value of SAR (measured) = 1.13 W/kg

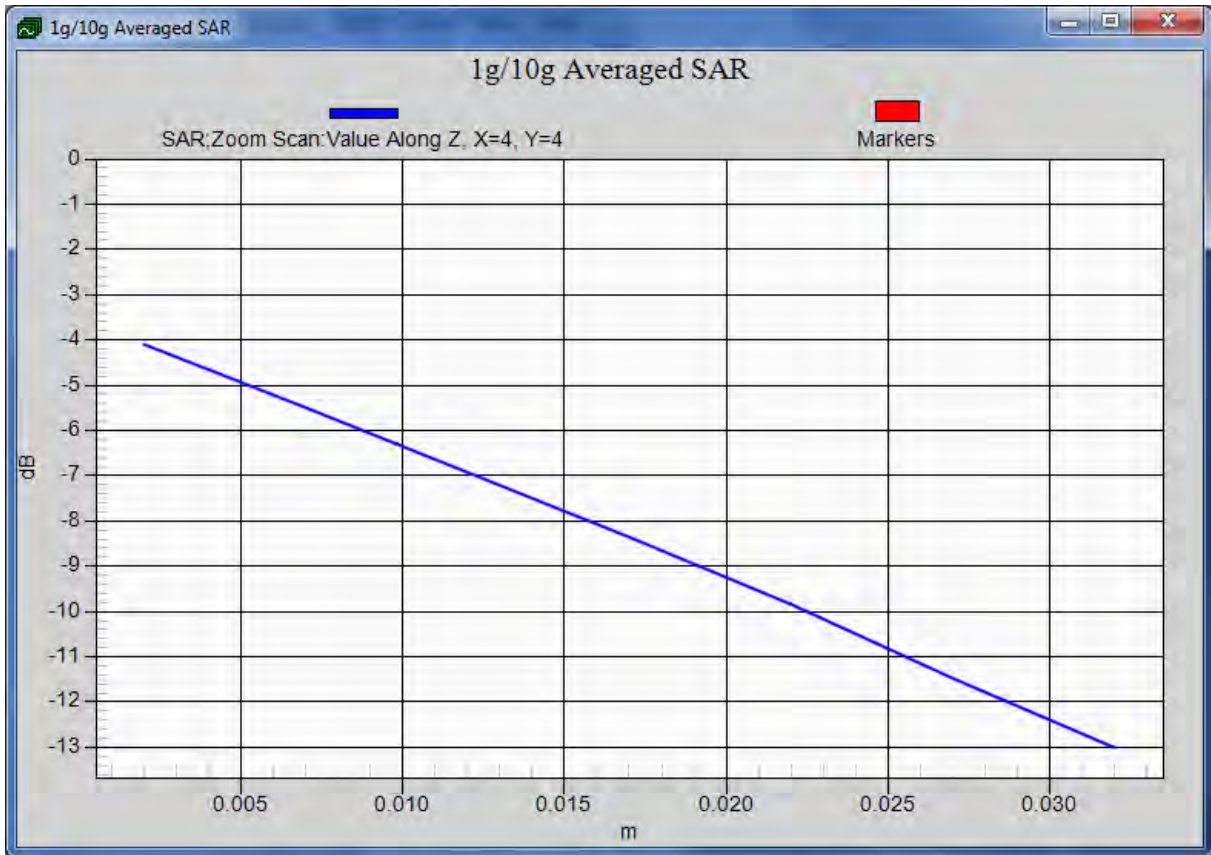


0 dB = 1.13 W/kg = 0.53 dBW/kg

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Date: 2013/7/12

### Body-worn\_Bottom side\_CH9538

Communication System: WCDMA; Frequency: 1907.6 MHz

 Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.546$  S/m;  $\epsilon_r = 51.997$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

DASYS Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.41, 7.41, 7.41); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASYS2 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/Body-worn/Area Scan (51x81x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.27 W/kg

**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

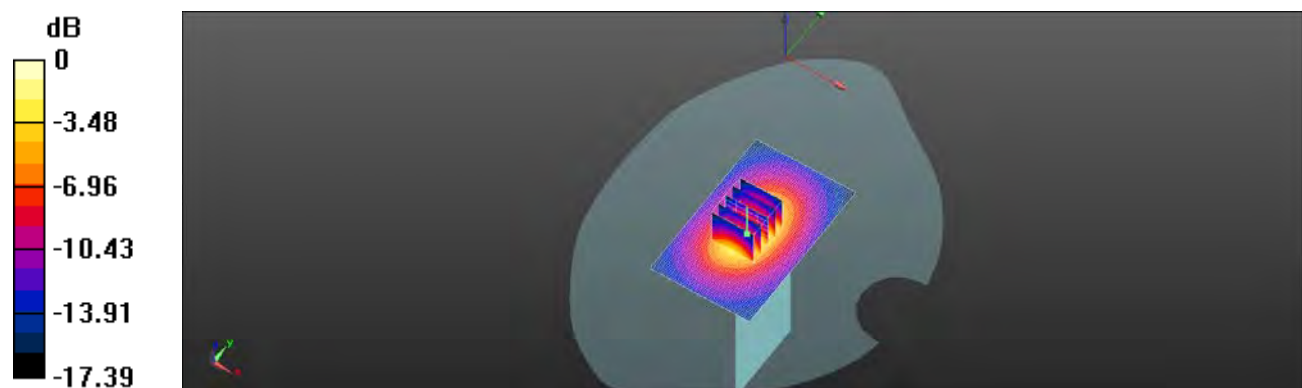
dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.444 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.76 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.545 W/kg**

Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

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Date: 2013/7/12

## RE Cheek\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.351$  S/m;  $\epsilon_r = 41.77$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.41, 8.41, 8.41); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (71x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.03 W/kg

### Configuration/RE Cheek/Zoom Scan (5x5x7)/Cube 0:

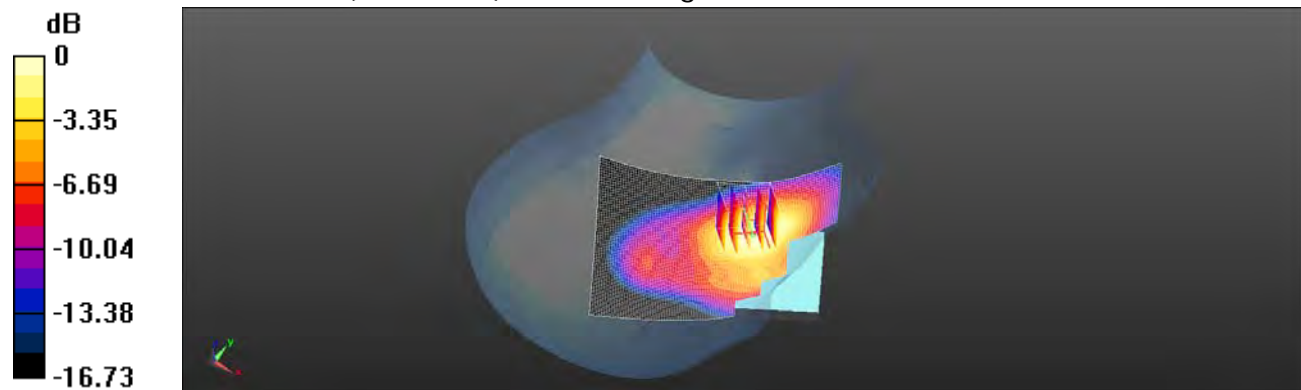
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.493 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.500 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/7/12

### Hotspot mode\_Front side\_CH1412

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used (interpolated):  $f = 1732.4$  MHz;  $\sigma = 1.442$  S/m;  $\epsilon_r = 52.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.78, 7.78, 7.78); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/Body-worn/Area Scan (71x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

#### Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

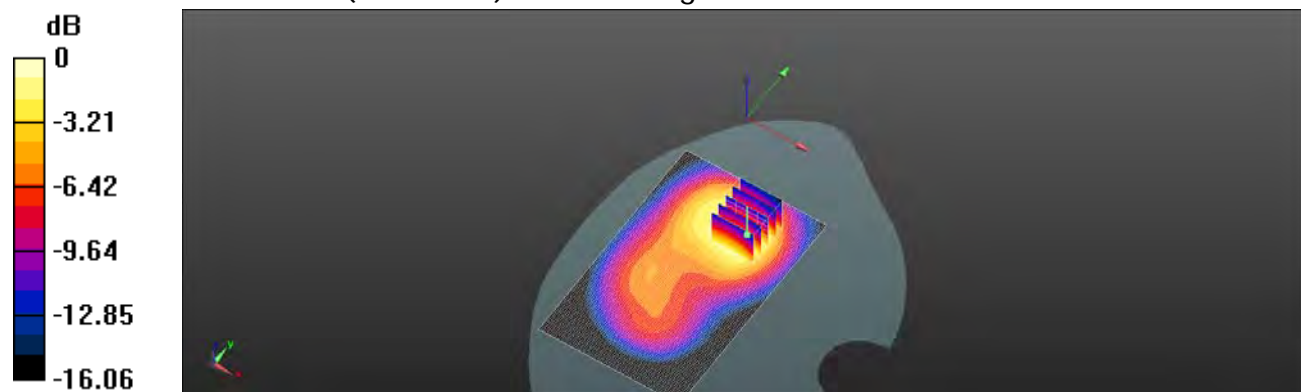
dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.527 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.57 W/kg

**SAR(1 g) = 0.978 W/kg; SAR(10 g) = 0.595 W/kg**

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 1.27 W/kg = 1.04 dBW/kg

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Date: 2013/7/12

## LE Cheek\_CH4233

Communication System: WCDMA; Frequency: 846.6 MHz

 Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.908$  S/m;  $\epsilon_r = 41.766$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.67, 9.67, 9.67); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Cheek/Area Scan (71x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.508 W/kg

**Configuration/LE Cheek/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

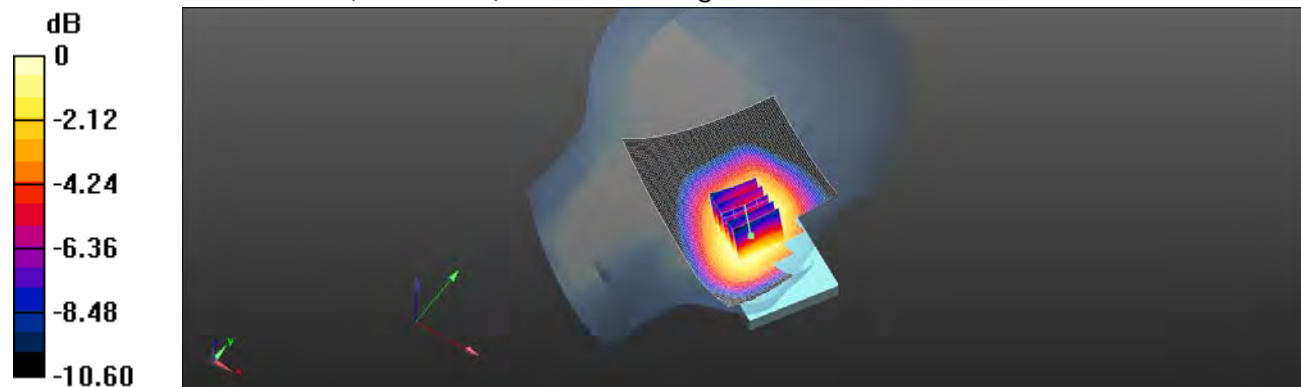
dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.311 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.581 W/kg

**SAR(1 g) = 0.438 W/kg; SAR(10 g) = 0.317 W/kg**

Maximum value of SAR (measured) = 0.516 W/kg



0 dB = 0.516 W/kg = -2.87 dBW/kg

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Date: 2013/7/12

### Hotspot mode\_Back side\_CH4233

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.997$  S/m;  $\epsilon_r = 56.284$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.43, 9.43, 9.43); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/Body-worn/Area Scan (71x111x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

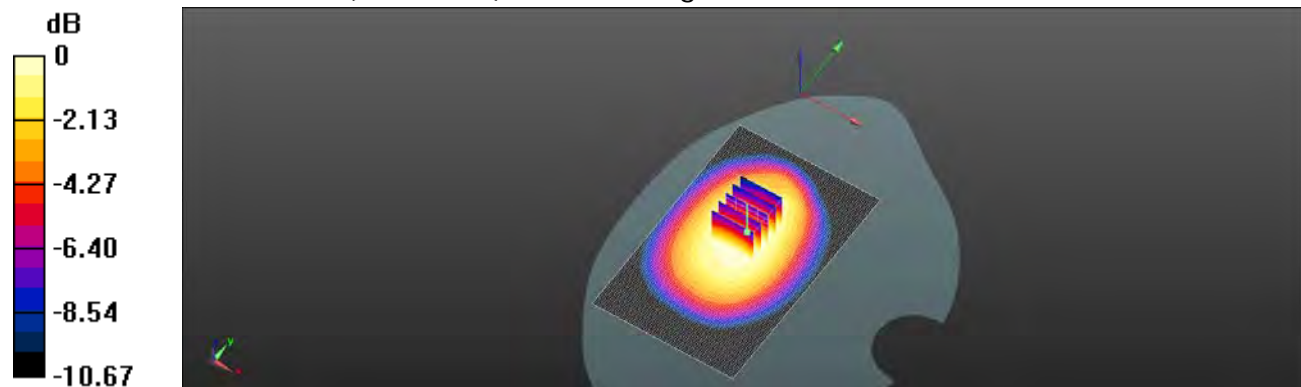
**Configuration/Body-worn/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.394 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 1.12 W/kg

**SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.632 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

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Date: 2013/7/18

### RE Cheek\_WLAN802.11b\_CH1

Communication System: WLAN 2.45G; Frequency: 2412 MHz

Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.769$  S/m;  $\epsilon_r = 39.253$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.15, 7.15, 7.15); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (91x141x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.672 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:

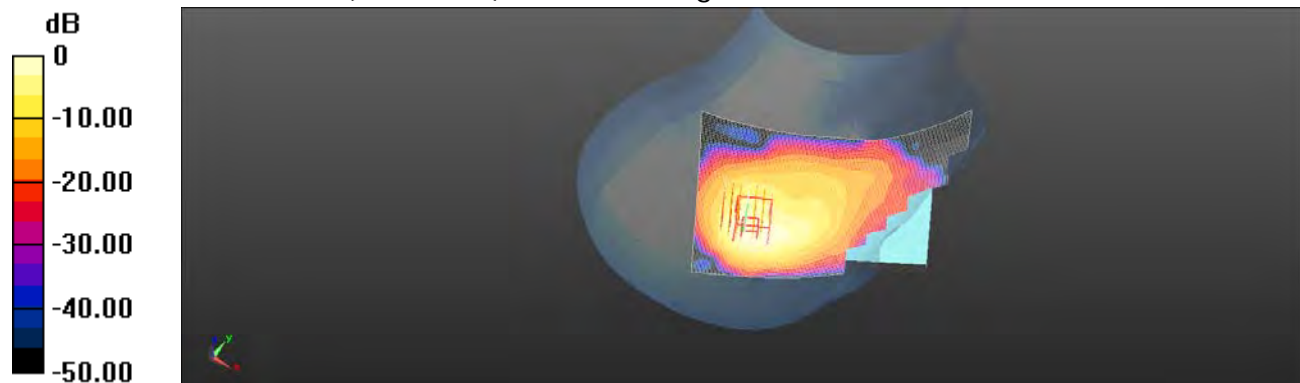
dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.510 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.244 W/kg**

Maximum value of SAR (measured) = 0.737 W/kg



0 dB = 0.737 W/kg = -1.33 dBW/kg

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Date: 2013/7/18

### Hotspot mode\_Back side\_WLAN802.11b\_CH11

Communication System: WLAN 2.45G; Frequency: 2462 MHz

Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.956$  S/m;  $\epsilon_r = 53.742$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.12, 7.12, 7.12); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (81x131x1): Interpolated grid:

$dx=1.200$  mm,  $dy=1.200$  mm

Maximum value of SAR (interpolated) = 0.213 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x7)/Cube 0: Measurement

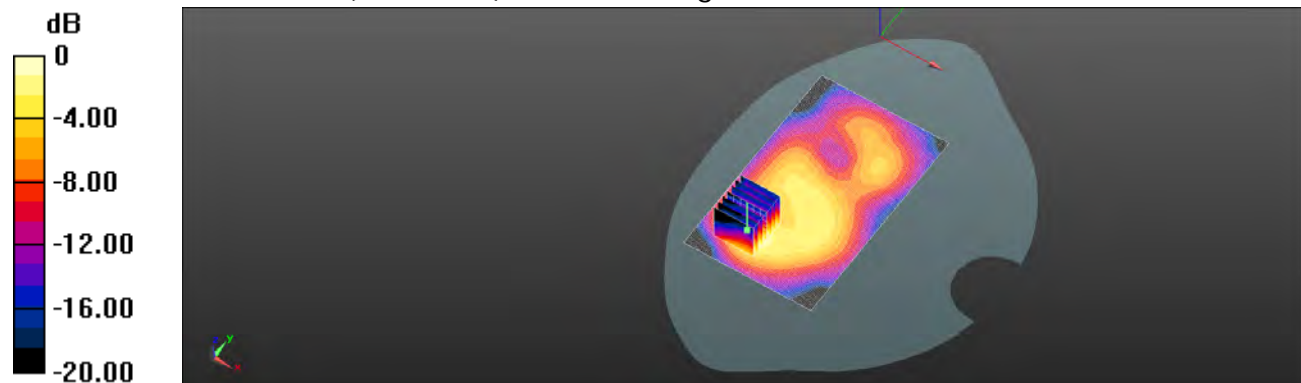
grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.800 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.284 W/kg

#### SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.073 W/kg

Maximum value of SAR (measured) = 0.209 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

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Date: 2013/7/16

### RE Cheek\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G; Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.547$  S/m;  $\epsilon_r = 36.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.275 W/kg

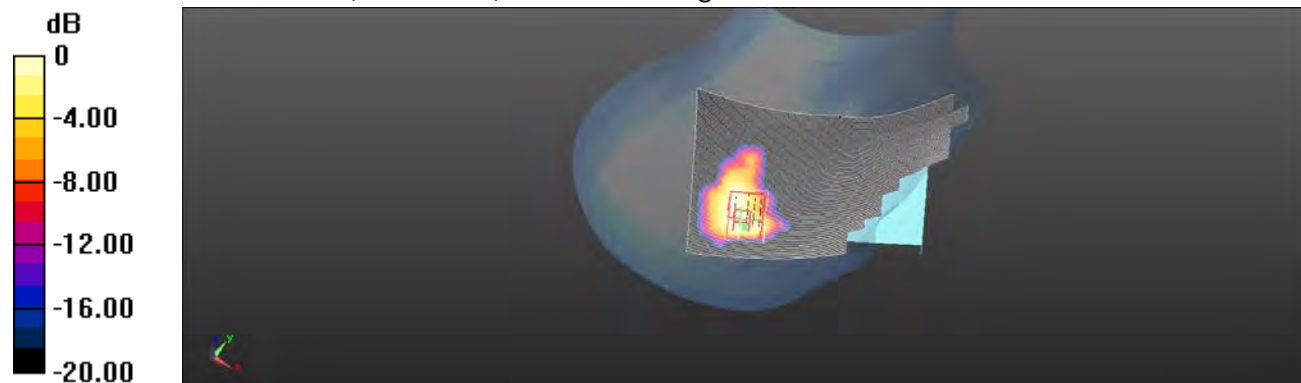
**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.972 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.495 W/kg

**SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.038 W/kg**

Maximum value of SAR (measured) = 0.261 W/kg



0 dB = 0.261 W/kg = -5.83 dBW/kg

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Date: 2013/7/16

### RE Tilt\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G; Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.547$  S/m;  $\epsilon_r = 36.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.306 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

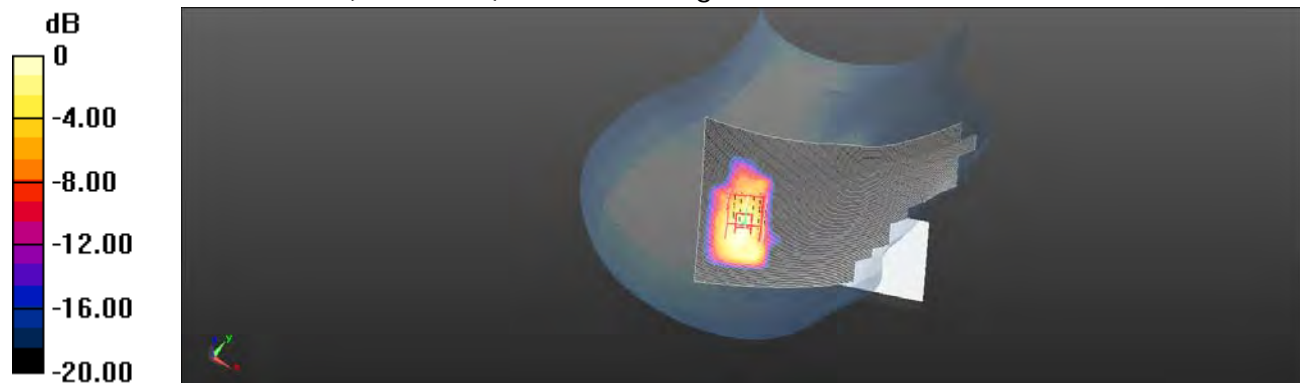
dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.194 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.525 W/kg

**SAR(1 g) = 0.153 W/kg; SAR(10 g) = 0.054 W/kg**

Maximum value of SAR (measured) = 0.293 W/kg



0 dB = 0.293 W/kg = -5.33 dBW/kg

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Date: 2013/7/16

## RE Tilt\_WLAN802.11a 5.2G\_CH44

Communication System: WLAN 5G; Frequency: 5220 MHz

 Medium parameters used:  $f = 5220 \text{ MHz}$ ;  $\sigma = 4.6 \text{ S/m}$ ;  $\epsilon_r = 36.172$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.318 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

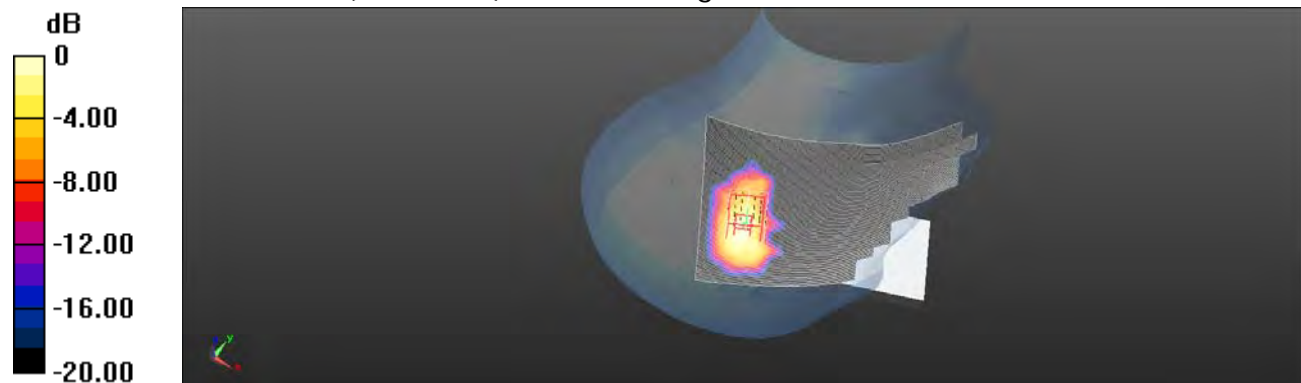
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 8.190 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.605 W/kg

**SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.057 W/kg**

Maximum value of SAR (measured) = 0.311 W/kg


 $0 \text{ dB} = 0.311 \text{ W/kg} = -5.07 \text{ dBW/kg}$ 

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/7/16

### LE Cheek\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G; Frequency: 5180 MHz

Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.547$  S/m;  $\epsilon_r = 36.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Cheek/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

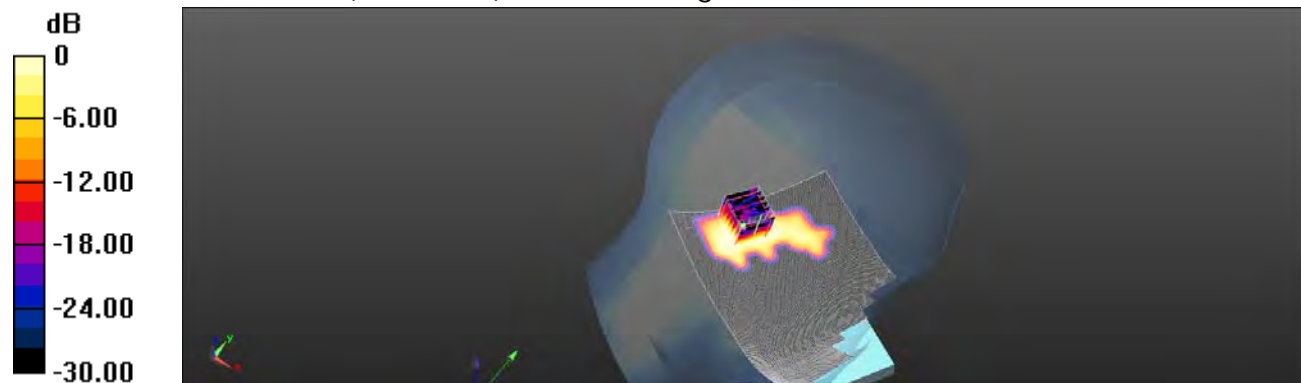
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.334 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.262 W/kg

**SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.027 W/kg**

Maximum value of SAR (measured) = 0.153 W/kg



0 dB = 0.153 W/kg = -8.15 dBW/kg

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Date: 2013/7/16

### LE Tilt\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G; Frequency: 5180 MHz

 Medium parameters used:  $f = 5180$  MHz;  $\sigma = 4.547$  S/m;  $\epsilon_r = 36.254$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.238 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

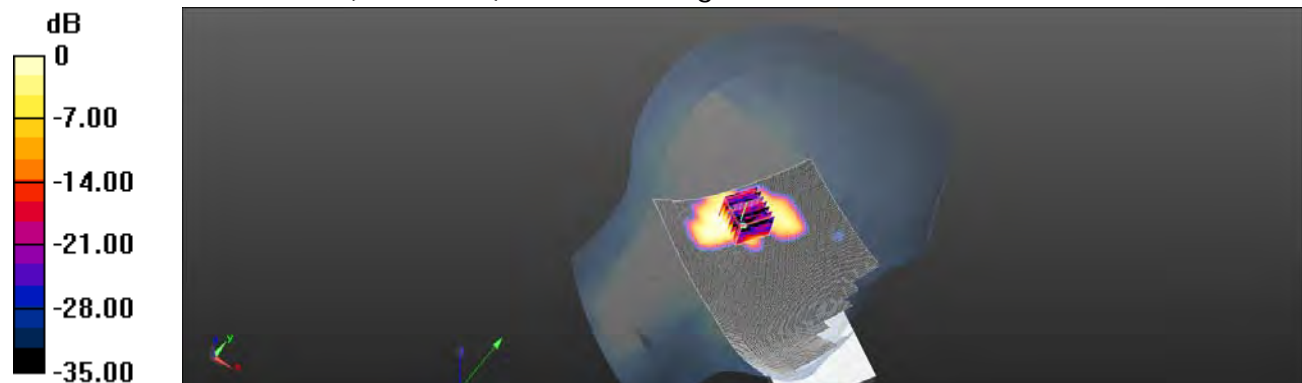
dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.184 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.783 W/kg

**SAR(1 g) = 0.120 W/kg; SAR(10 g) = 0.039 W/kg**

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



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

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Date: 2013/7/16

### Hotspot mode\_Front side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G; Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 5.249 \text{ S/m}$ ;  $\epsilon_r = 49.516$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.79, 4.79, 4.79); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0541 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

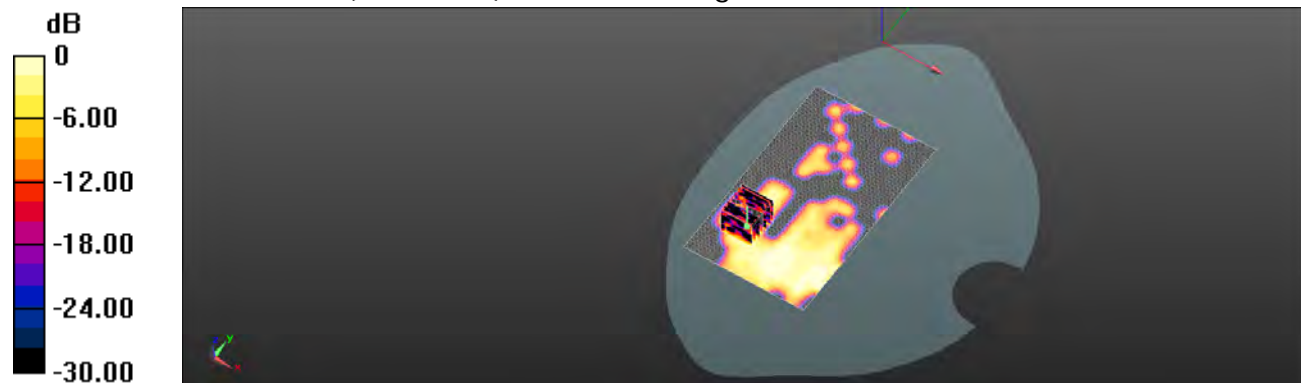
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.218 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.219 W/kg

#### SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.00714 W/kg

Maximum value of SAR (measured) = 0.0454 W/kg



0 dB = 0.0454 W/kg = -13.43 dBW/kg

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Date: 2013/7/16

### Hotspot mode\_Back side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G; Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 5.249 \text{ S/m}$ ;  $\epsilon_r = 49.516$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.79, 4.79, 4.79); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.155 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

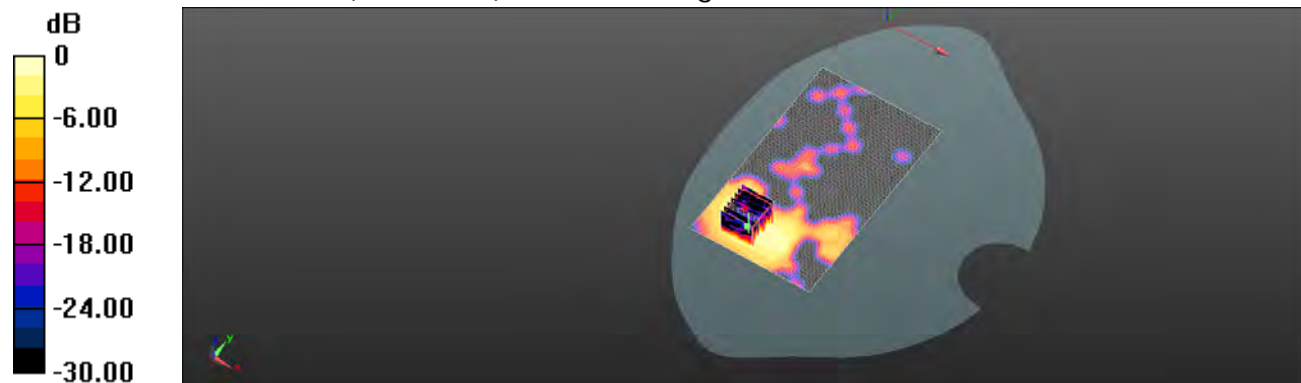
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 3.122 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.893 W/kg

#### SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.028 W/kg

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



0 dB = 0.168 W/kg = -7.75 dBW/kg

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Date: 2013/7/16

### Hotspot mode\_Top side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G; Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 5.249 \text{ S/m}$ ;  $\epsilon_r = 49.516$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.79, 4.79, 4.79); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (71x121x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.163 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

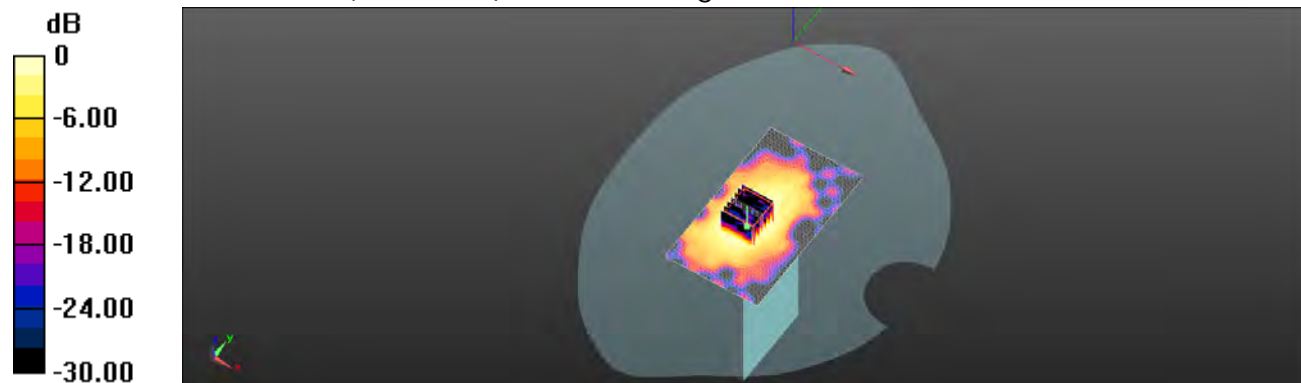
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.727 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.361 W/kg

#### SAR(1 g) = 0.090 W/kg; SAR(10 g) = 0.034 W/kg

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



0 dB = 0.168 W/kg = -7.75 dBW/kg

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Date: 2013/7/16

### Hotspot mode\_Top side\_WLAN802.11a 5.2G\_CH44

Communication System: WLAN 5G; Frequency: 5220 MHz

 Medium parameters used:  $f = 5220 \text{ MHz}$ ;  $\sigma = 5.313 \text{ S/m}$ ;  $\epsilon_r = 49.428$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.79, 4.79, 4.79); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (71x121x1): Interpolated grid:

 $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$ 

Maximum value of SAR (interpolated) = 0.173 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

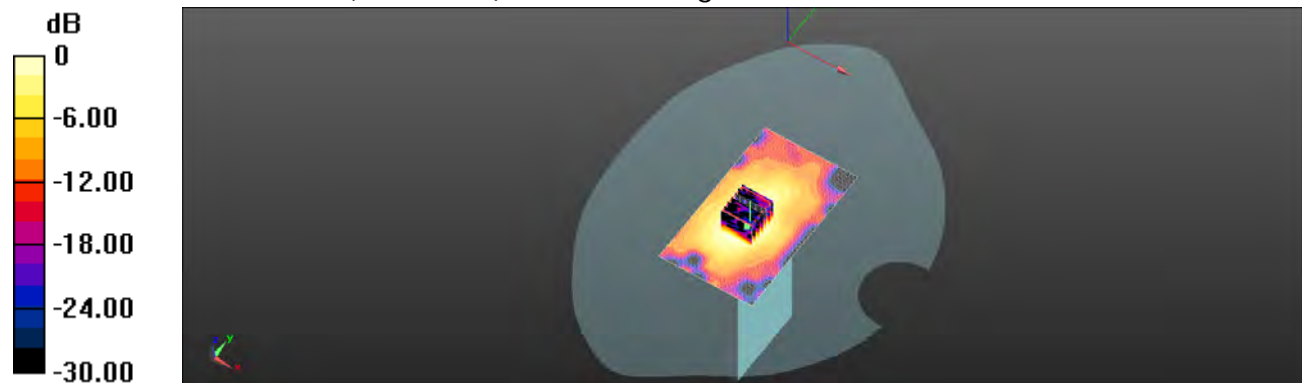
 grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 4.959 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.388 W/kg

**SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.036 W/kg**

Maximum value of SAR (measured) = 0.173 W/kg


 $0 \text{ dB} = 0.173 \text{ W/kg} = -7.62 \text{ dBW/kg}$ 

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Date: 2013/7/16

### Hotspot mode\_Left side\_WLAN802.11a 5.2G\_CH36

Communication System: WLAN 5G; Frequency: 5180 MHz

Medium parameters used:  $f = 5180 \text{ MHz}$ ;  $\sigma = 5.249 \text{ S/m}$ ;  $\epsilon_r = 49.516$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.79, 4.79, 4.79); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (41x161x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0999 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

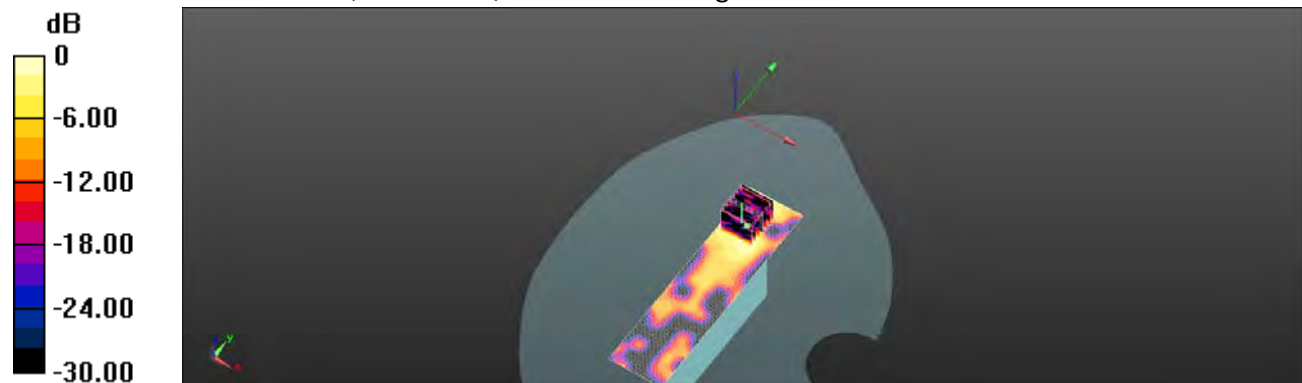
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 1.142 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.136 W/kg

#### SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0833 W/kg



0 dB = 0.0833 W/kg = -10.79 dBW/kg

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Date: 2013/7/16

### RE Tilt\_WLAN802.11n(20M) 5.2G\_CH48

Communication System: WLAN 5G; Frequency: 5240 MHz

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 4.626$  S/m;  $\epsilon_r = 36.131$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.647 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

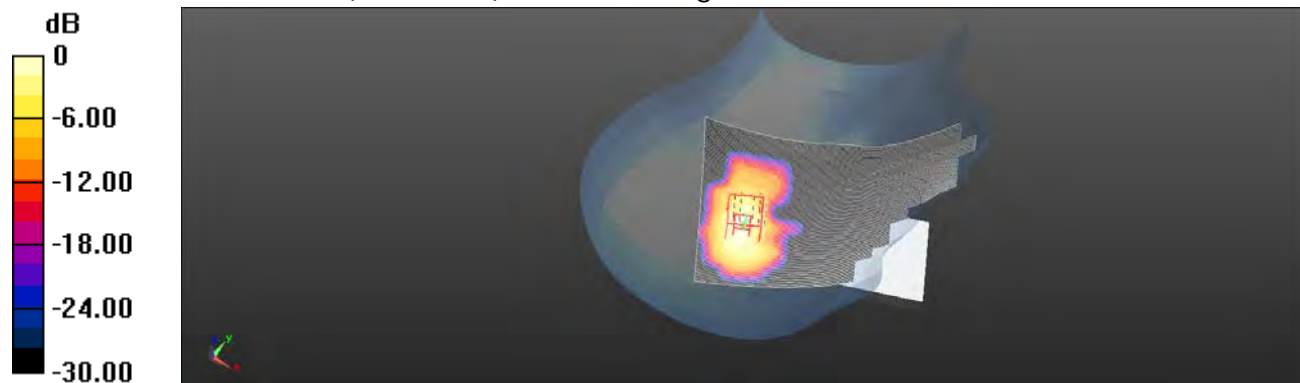
dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.533 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.359 W/kg; SAR(10 g) = 0.128 W/kg**

Maximum value of SAR (measured) = 0.660 W/kg



0 dB = 0.660 W/kg = -1.80 dBW/kg

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Date: 2013/7/16

### Hotspot mode\_Top side\_WLAN802.11n(20M) 5.2G\_CH48

Communication System: WLAN 5G; Frequency: 5240 MHz

Medium parameters used:  $f = 5240 \text{ MHz}$ ;  $\sigma = 5.34 \text{ S/m}$ ;  $\epsilon_r = 49.401$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.79, 4.79, 4.79); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (71x121x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.219 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

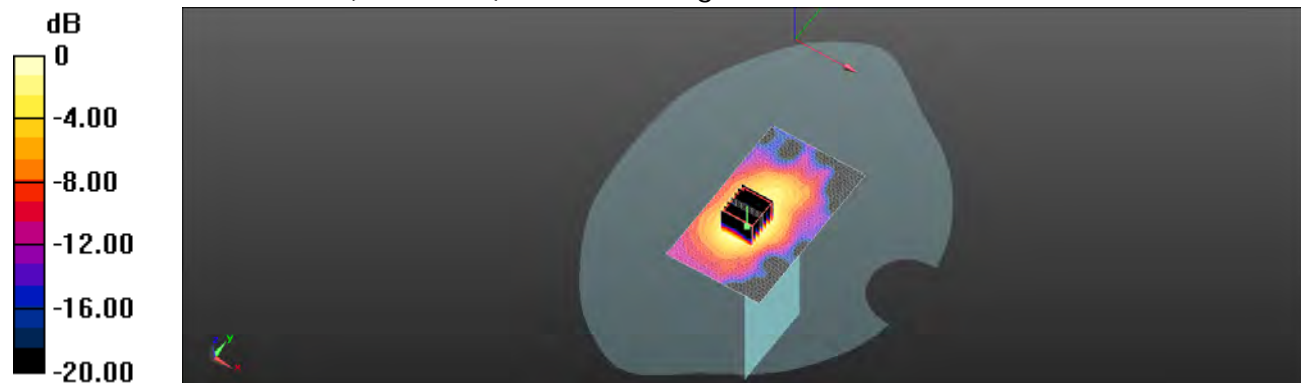
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 5.235 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.483 W/kg

#### SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.048 W/kg

Maximum value of SAR (measured) = 0.225 W/kg



0 dB = 0.225 W/kg = -6.48 dBW/kg

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Date: 2013/7/16

### RE Cheek\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G; Frequency: 5190 MHz

Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.56$  S/m;  $\epsilon_r = 36.234$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.285 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

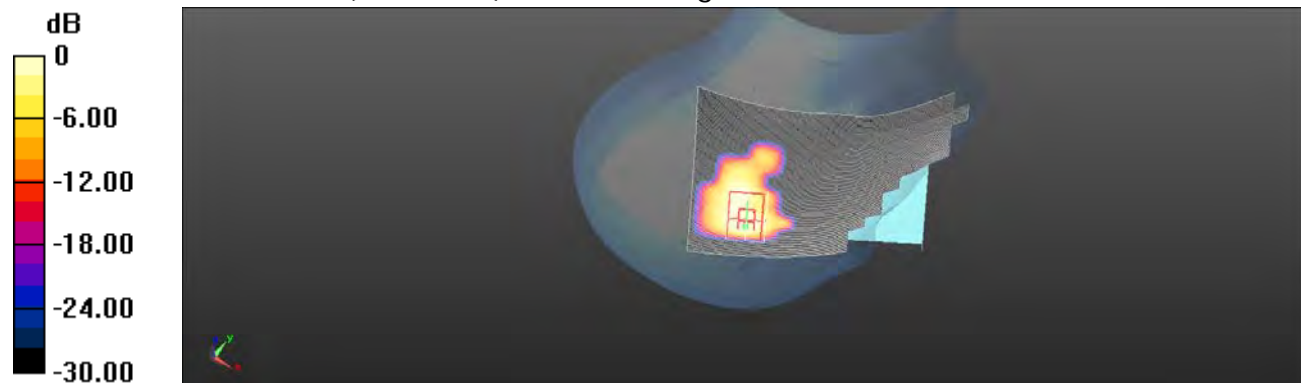
dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.024 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.540 W/kg

**SAR(1 g) = 0.125 W/kg; SAR(10 g) = 0.039 W/kg**

Maximum value of SAR (measured) = 0.257 W/kg



0 dB = 0.257 W/kg = -5.90 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/7/16

### RE Tilt\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G; Frequency: 5190 MHz

Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.56$  S/m;  $\epsilon_r = 36.234$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.336 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

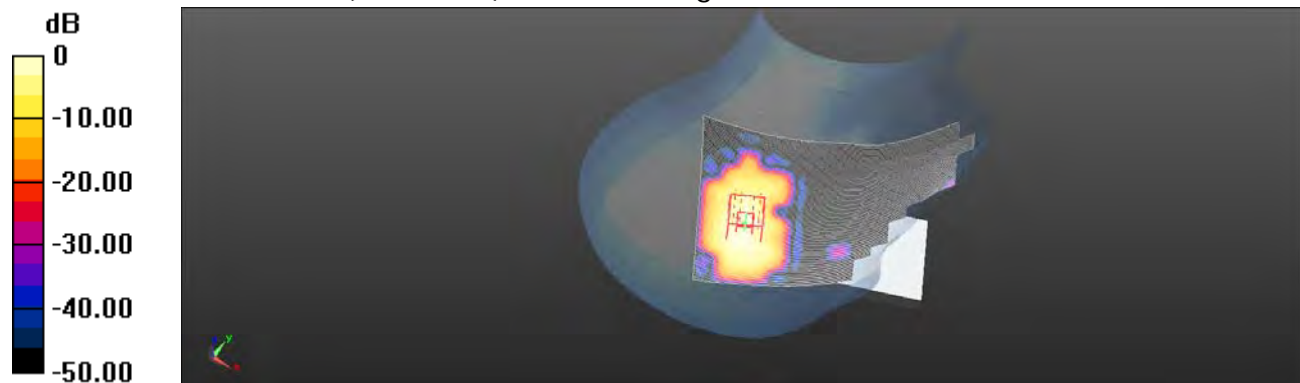
dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.177 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.050 W/kg**

Maximum value of SAR (measured) = 0.336 W/kg



0 dB = 0.336 W/kg = -4.74 dBW/kg

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Date: 2013/7/16

### RE Tilt\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G; Frequency: 5230 MHz

 Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 4.613 \text{ S/m}$ ;  $\epsilon_r = 36.152$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.359 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

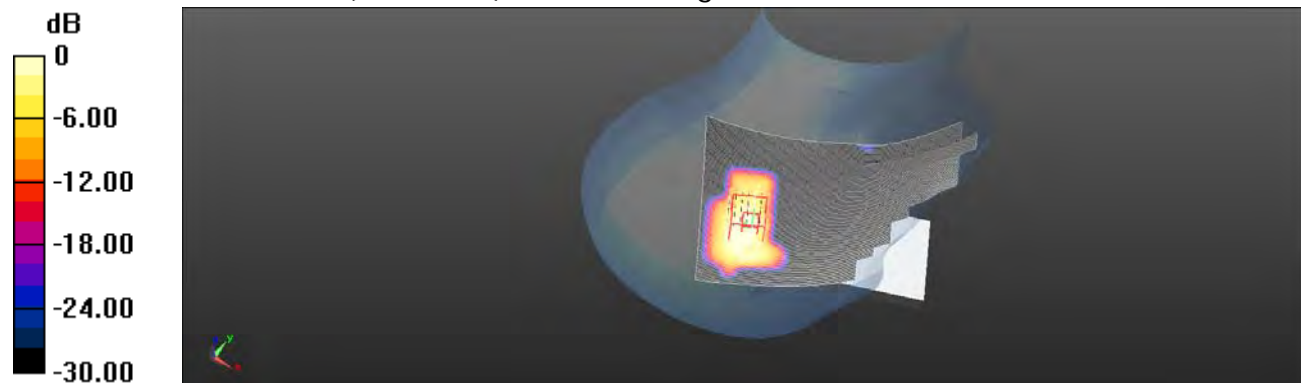
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 8.802 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.565 W/kg

**SAR(1 g) = 0.162 W/kg; SAR(10 g) = 0.055 W/kg**

Maximum value of SAR (measured) = 0.314 W/kg


 $0 \text{ dB} = 0.314 \text{ W/kg} = -5.03 \text{ dBW/kg}$ 

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Date: 2013/7/16

### LE Cheek\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G; Frequency: 5190 MHz

 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.56$  S/m;  $\epsilon_r = 36.234$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Cheek/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.227 W/kg

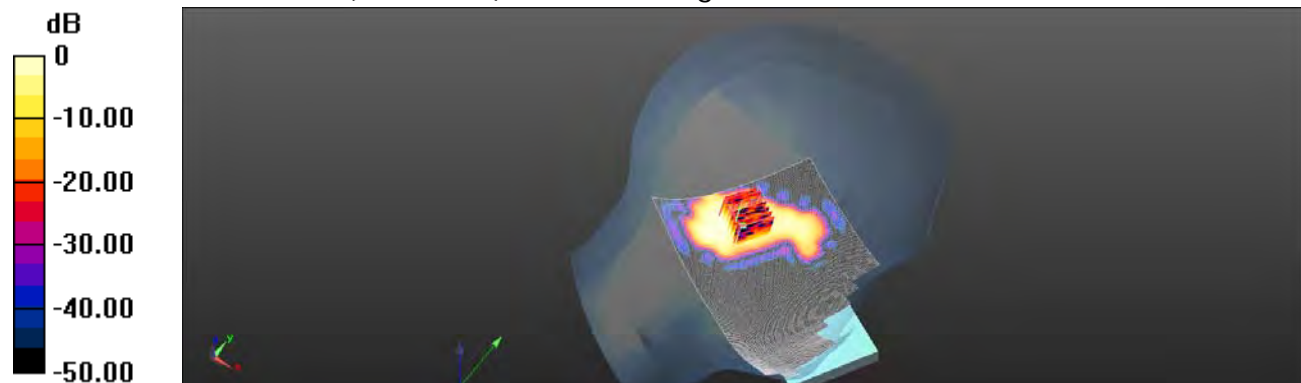
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.024 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.442 W/kg

**SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.045 W/kg**

Maximum value of SAR (measured) = 0.235 W/kg



0 dB = 0.235 W/kg = -6.29 dBW/kg

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Date: 2013/7/16

### LE Tilt\_WLAN802.11n(40M) 5.2G\_CH38

Communication System: WLAN 5G; Frequency: 5190 MHz

 Medium parameters used:  $f = 5190$  MHz;  $\sigma = 4.56$  S/m;  $\epsilon_r = 36.234$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.345 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

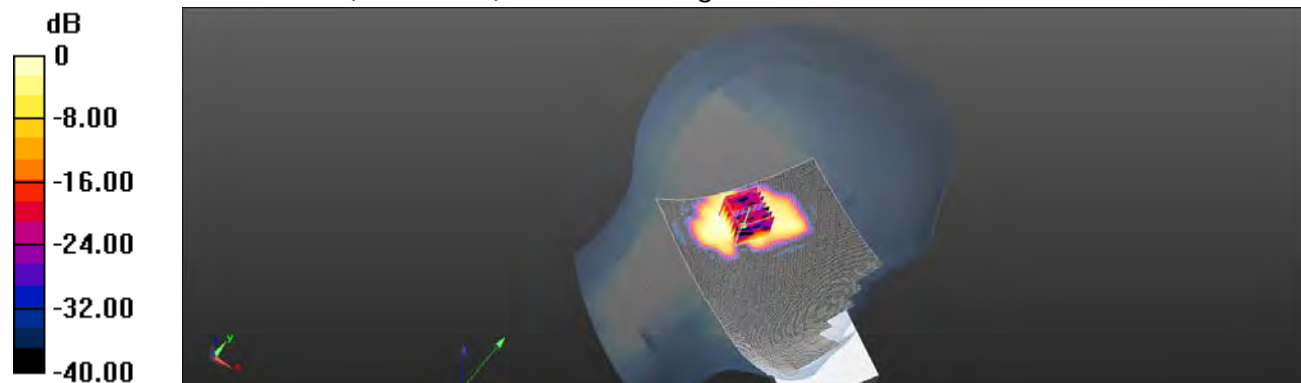
dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.006 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.534 W/kg

**SAR(1 g) = 0.161 W/kg; SAR(10 g) = 0.056 W/kg**

Maximum value of SAR (measured) = 0.302 W/kg



0 dB = 0.302 W/kg = -5.20 dBW/kg

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Date: 2013/7/16

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.2G\_CH46

Communication System: WLAN 5G; Frequency: 5230 MHz

Medium parameters used:  $f = 5230 \text{ MHz}$ ;  $\sigma = 5.327 \text{ S/m}$ ;  $\epsilon_r = 49.418$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.79, 4.79, 4.79); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (71x121x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.163 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

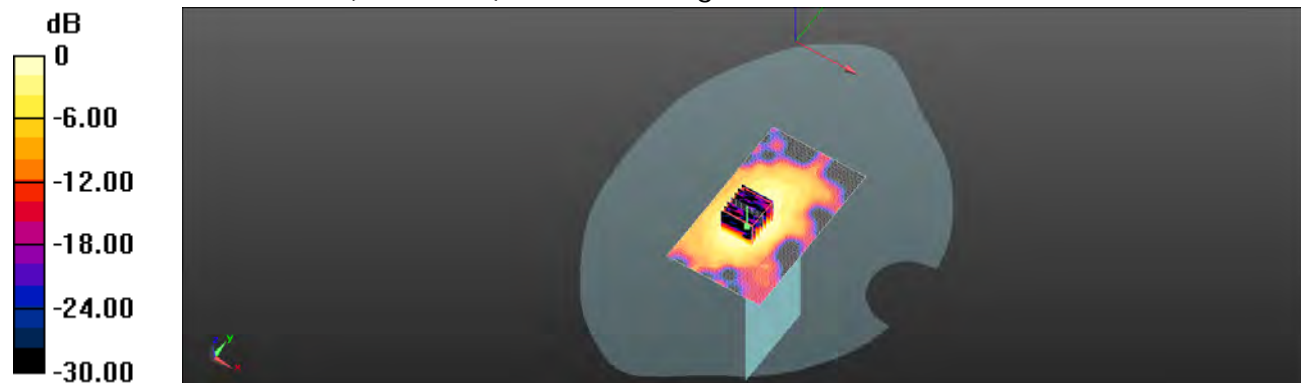
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.501 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.340 W/kg

#### SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.161 W/kg



0 dB = 0.161 W/kg = -7.93 dBW/kg

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Date: 2013/7/18

### RE Tilt\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G; Frequency: 5300 MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.705$  S/m;  $\epsilon_r = 36.009$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.22, 5.22, 5.22); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.934 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

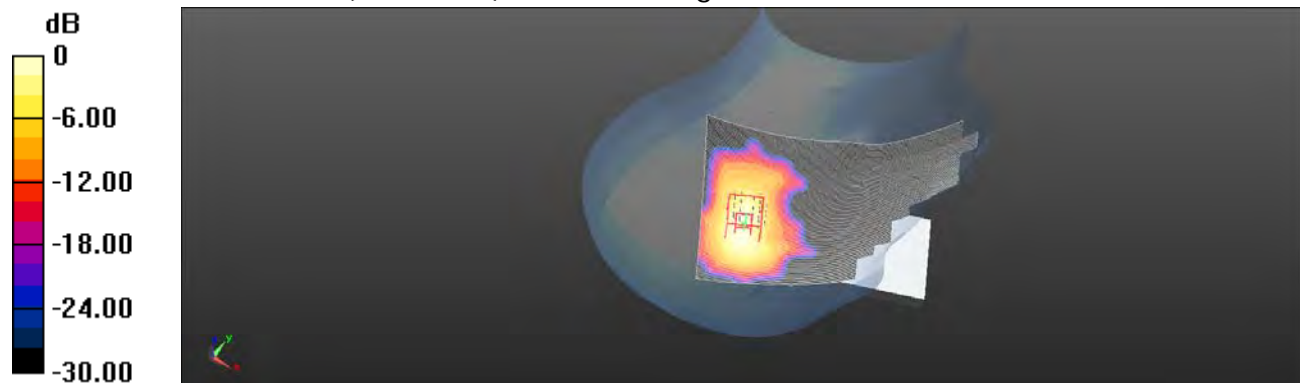
dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.886 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.68 W/kg

**SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.194 W/kg**

Maximum value of SAR (measured) = 0.980 W/kg



0 dB = 0.980 W/kg = -0.09 dBW/kg

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Date: 2013/7/18

### Hotspot mode\_Top side\_WLAN802.11a 5.3G\_CH60

Communication System: WLAN 5G; Frequency: 5300 MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.419$  S/m;  $\epsilon_r = 49.244$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.71, 4.71, 4.71); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (71x121x1): Interpolated grid:

$dx=1.000$  mm,  $dy=1.000$  mm

Maximum value of SAR (interpolated) = 0.315 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

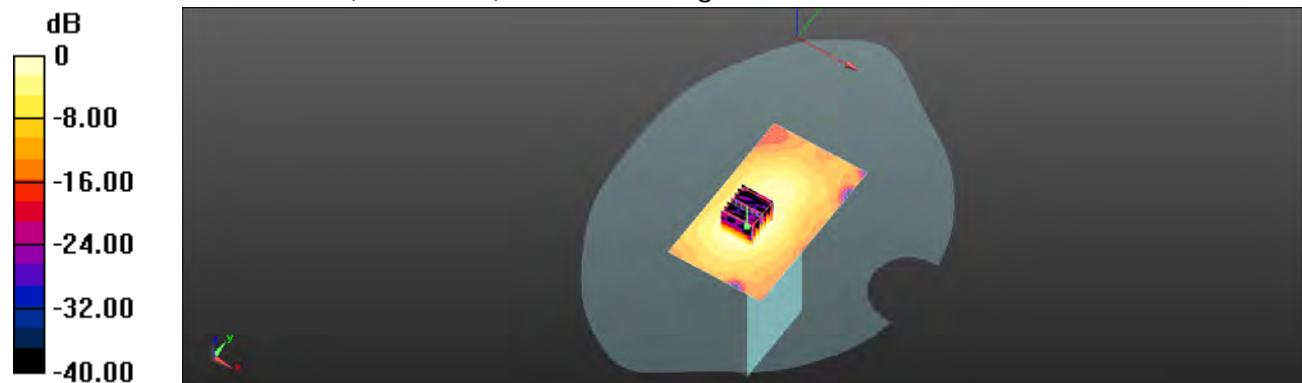
grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=2$ mm

Reference Value = 6.237 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.735 W/kg

#### SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.066 W/kg

Maximum value of SAR (measured) = 0.319 W/kg



0 dB = 0.319 W/kg = -4.96 dBW/kg

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Date: 2013/7/18

### RE Cheek\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G; Frequency: 5260 MHz

Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 4.653 \text{ S/m}$ ;  $\epsilon_r = 36.09$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.22, 5.22, 5.22); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) =  $0.364 \text{ W/kg}$

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

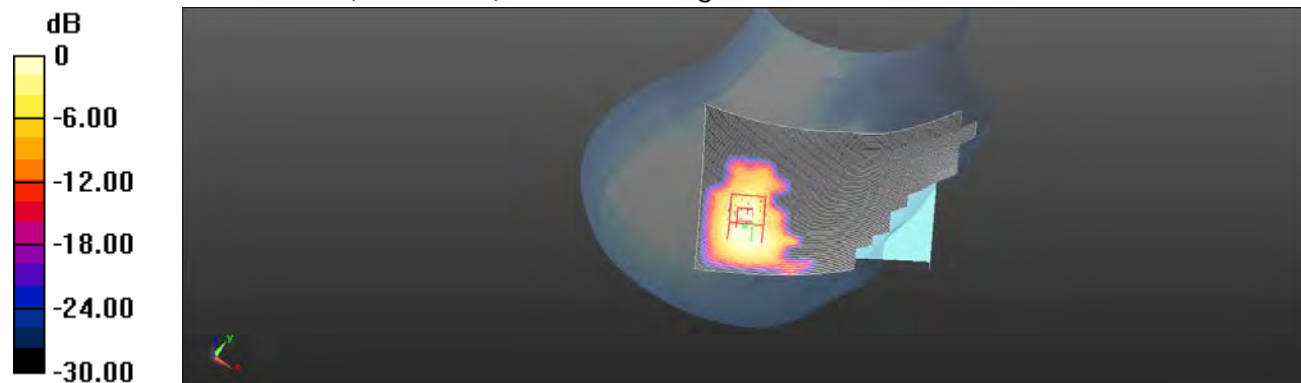
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value =  $7.976 \text{ V/m}$ ; Power Drift =  $-0.05 \text{ dB}$

Peak SAR (extrapolated) =  $0.796 \text{ W/kg}$

**SAR(1 g) =  $0.198 \text{ W/kg}$ ; SAR(10 g) =  $0.074 \text{ W/kg}$**

Maximum value of SAR (measured) =  $0.385 \text{ W/kg}$



$0 \text{ dB} = 0.385 \text{ W/kg} = -4.15 \text{ dBW/kg}$

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Date: 2013/7/18

### RE Tilt\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G; Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.653$  S/m;  $\epsilon_r = 36.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.22, 5.22, 5.22); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.443 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

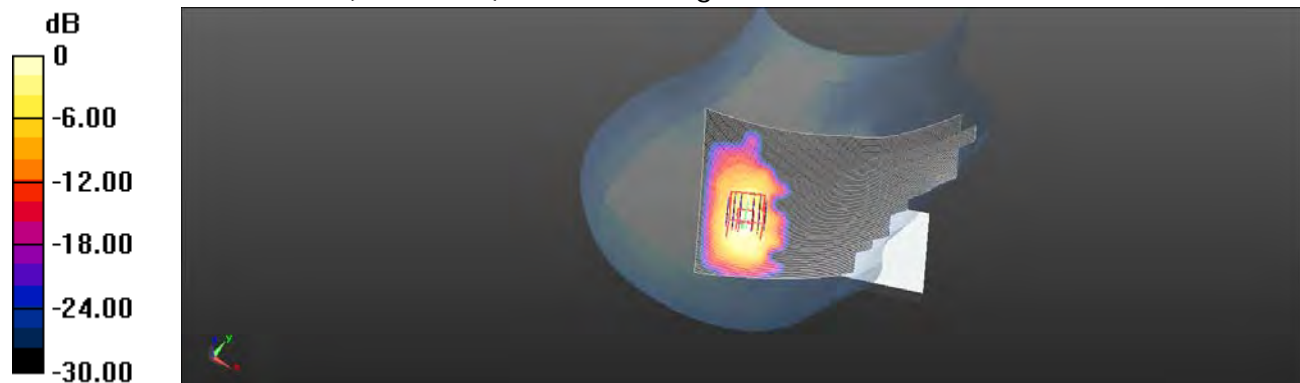
dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.759 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.858 W/kg

**SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.081 W/kg**

Maximum value of SAR (measured) = 0.459 W/kg



0 dB = 0.459 W/kg = -3.38 dBW/kg

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Date: 2013/7/18

### RE Tilt\_WLAN802.11n(20M) 5.3G\_CH64

Communication System: WLAN 5G; Frequency: 5320 MHz

Medium parameters used:  $f = 5320 \text{ MHz}$ ;  $\sigma = 4.732 \text{ S/m}$ ;  $\epsilon_r = 35.968$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.22, 5.22, 5.22); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.696 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

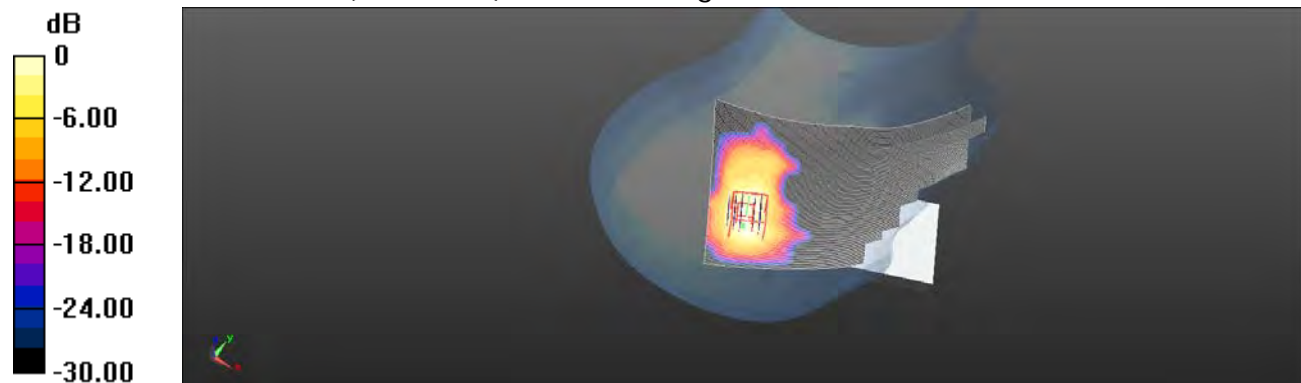
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 11.599 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.124 W/kg**

Maximum value of SAR (measured) = 0.682 W/kg



0 dB = 0.682 W/kg = -1.66 dBW/kg

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Date: 2013/7/18

### LE Cheek\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G; Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.653$  S/m;  $\epsilon_r = 36.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.22, 5.22, 5.22); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Cheek/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.312 W/kg

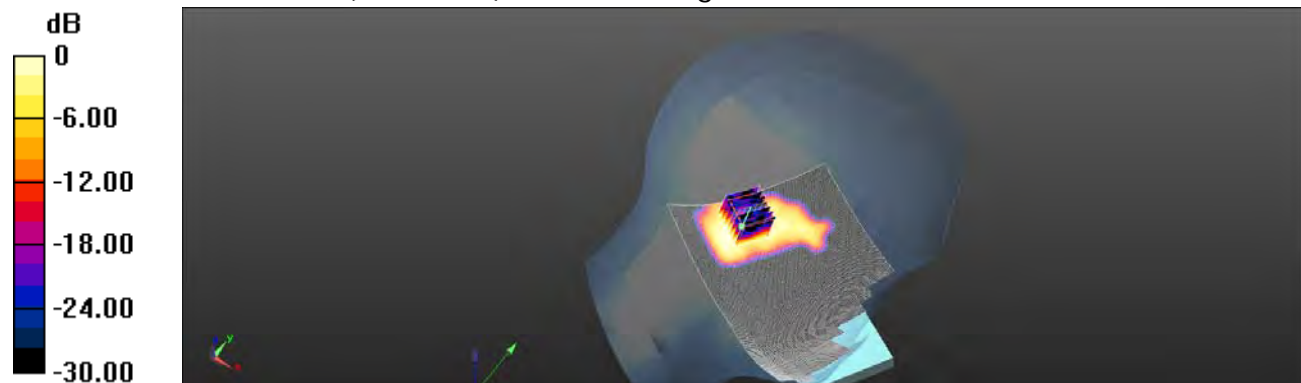
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.725 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.576 W/kg

**SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.067 W/kg**

Maximum value of SAR (measured) = 0.323 W/kg



0 dB = 0.323 W/kg = -4.91 dBW/kg

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Date: 2013/7/18

### LE Tilt\_WLAN802.11n(20M) 5.3G\_CH52

Communication System: WLAN 5G; Frequency: 5260 MHz

Medium parameters used:  $f = 5260$  MHz;  $\sigma = 4.653$  S/m;  $\epsilon_r = 36.09$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.22, 5.22, 5.22); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.396 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

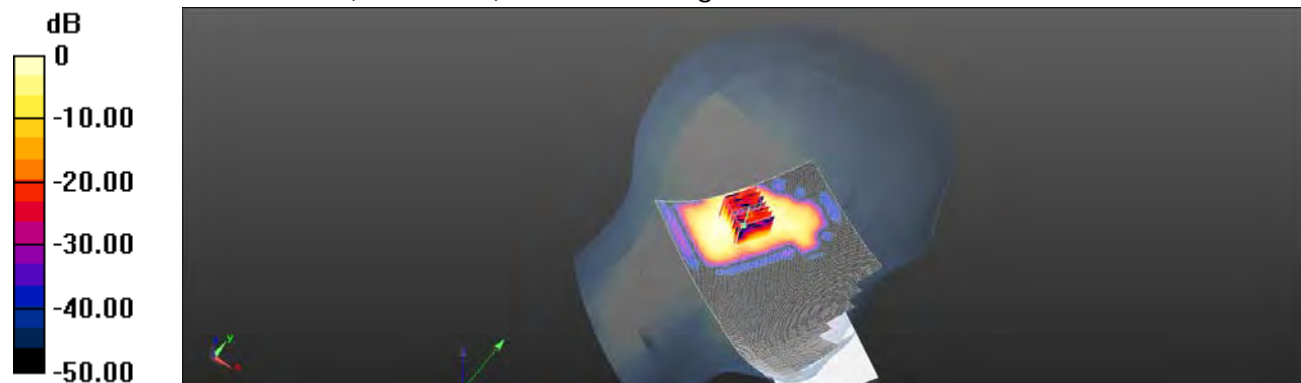
dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.981 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.744 W/kg

**SAR(1 g) = 0.220 W/kg; SAR(10 g) = 0.077 W/kg**

Maximum value of SAR (measured) = 0.413 W/kg



0 dB = 0.413 W/kg = -3.84 dBW/kg

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Date: 2013/7/18

### Hotspot mode\_Top side\_WLAN802.11n(20M) 5.3G\_CH64

Communication System: WLAN 5G; Frequency: 5320 MHz

 Medium parameters used:  $f = 5320$  MHz;  $\sigma = 5.453$  S/m;  $\epsilon_r = 49.196$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.71, 4.71, 4.71); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (71x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.327 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

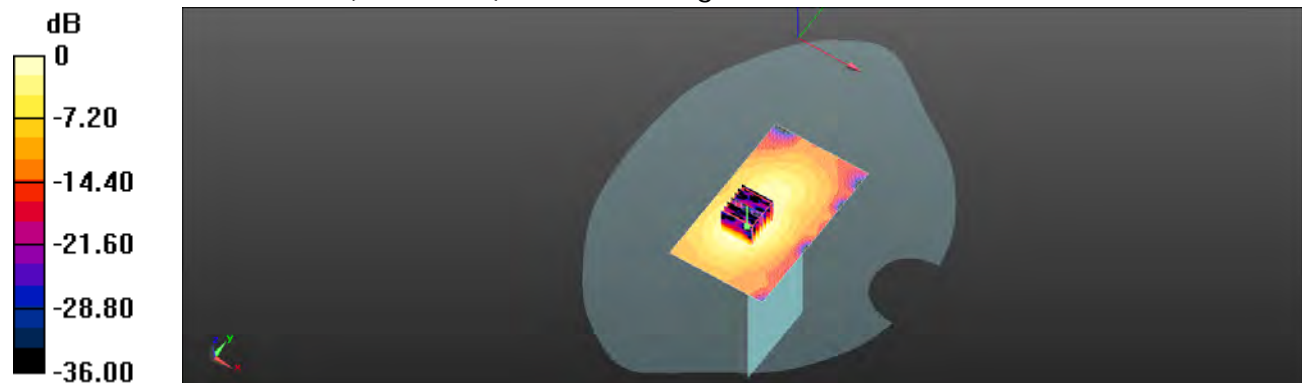
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.808 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.731 W/kg

#### SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.069 W/kg

Maximum value of SAR (measured) = 0.326 W/kg



0 dB = 0.326 W/kg = -4.87 dBW/kg

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Date: 2013/7/18

## RE Tilt\_WLAN802.11n(40M) 5.3G\_CH62

Communication System: WLAN 5G; Frequency: 5310 MHz

Medium parameters used:  $f = 5310$  MHz;  $\sigma = 4.719$  S/m;  $\epsilon_r = 35.988$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.22, 5.22, 5.22); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.608 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

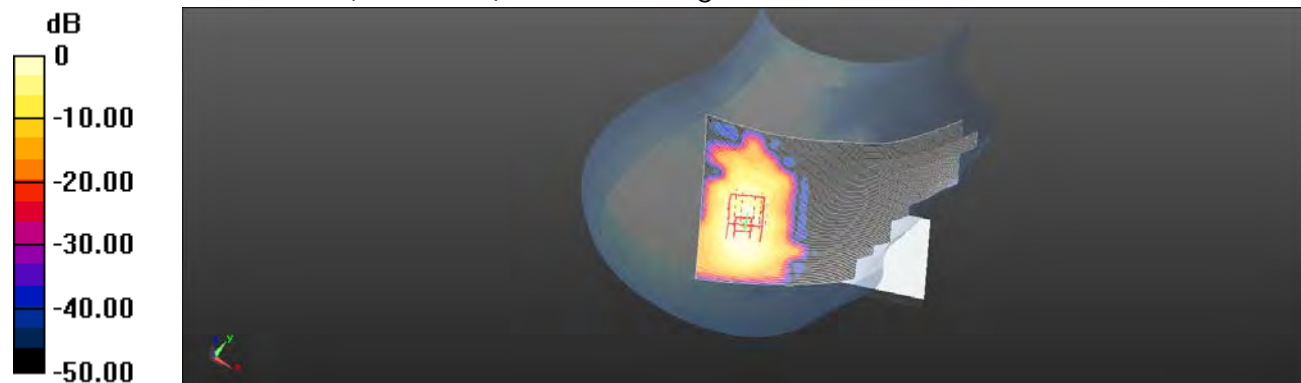
dx=4mm, dy=4mm, dz=2mm

Reference Value = 11.191 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.15 W/kg

**SAR(1 g) = 0.320 W/kg; SAR(10 g) = 0.115 W/kg**

Maximum value of SAR (measured) = 0.599 W/kg



0 dB = 0.599 W/kg = -2.23 dBW/kg

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Date: 2013/7/18

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.3G\_CH62

Communication System: WLAN 5G; Frequency: 5310 MHz

Medium parameters used:  $f = 5310 \text{ MHz}$ ;  $\sigma = 5.436 \text{ S/m}$ ;  $\epsilon_r = 49.217$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.71, 4.71, 4.71); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (71x121x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.276 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

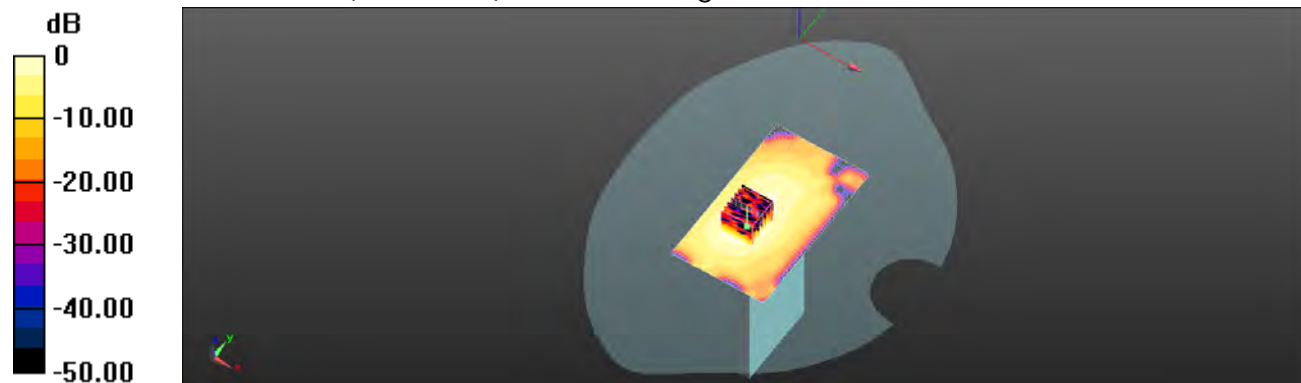
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.996 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.606 W/kg

#### SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.057 W/kg

Maximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.273 W/kg = -5.64 dBW/kg

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Date: 2013/7/20

### LE Cheek\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G; Frequency: 5580 MHz

Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.084$  S/m;  $\epsilon_r = 35.435$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Cheek/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.06 W/kg

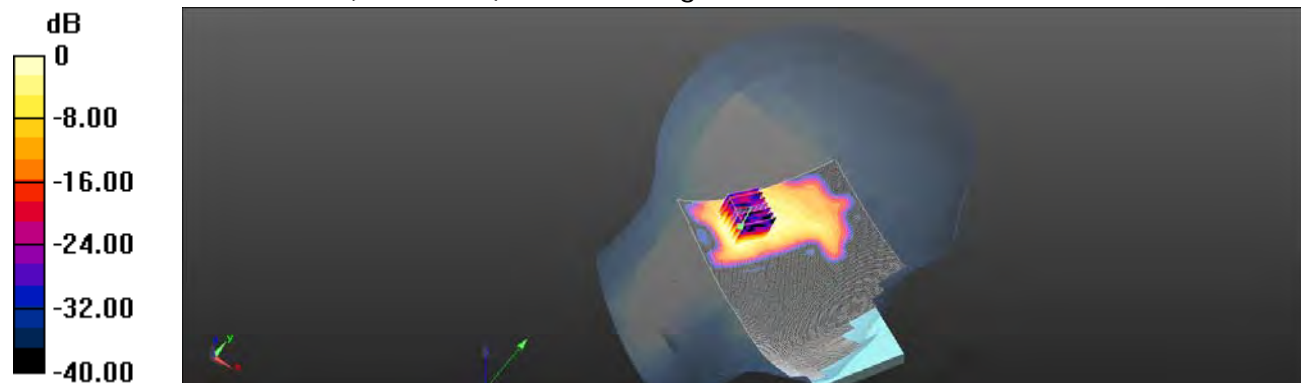
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 9.804 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.186 W/kg**

Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Back side\_WLAN802.11a 5.5G\_CH116

Communication System: WLAN 5G; Frequency: 5580 MHz

 Medium parameters used:  $f = 5580$  MHz;  $\sigma = 5.835$  S/m;  $\epsilon_r = 48.652$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.524 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.995 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.32 W/kg

#### SAR(1 g) = 0.273 W/kg; SAR(10 g) = 0.091 W/kg

Maximum value of SAR (measured) = 0.535 W/kg


 $0 \text{ dB} = 0.535 \text{ W/kg} = -2.72 \text{ dBW/kg}$ 

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Date: 2013/7/20

## RE Tilt\_WLAN802.11n(20M) 5.5G\_CH100

Communication System: WLAN 5G; Frequency: 5500 MHz

Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.974$  S/m;  $\epsilon_r = 35.599$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

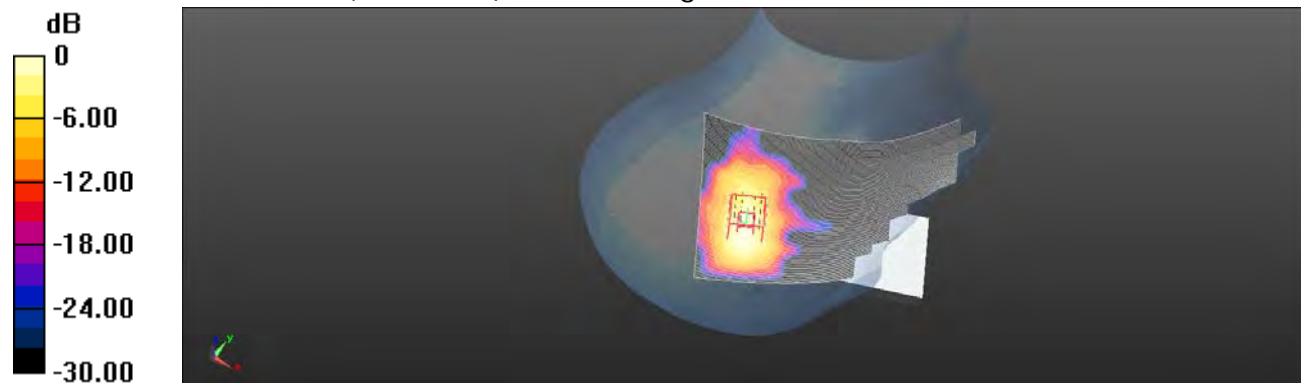
dx=4mm, dy=4mm, dz=2mm

Reference Value = 13.832 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.91 W/kg

**SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.192 W/kg**

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.13 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Back side\_WLAN802.11n(20M) 5.5G\_CH100

Communication System: WLAN 5G; Frequency: 5500 MHz

 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.709$  S/m;  $\epsilon_r = 48.831$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.614 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

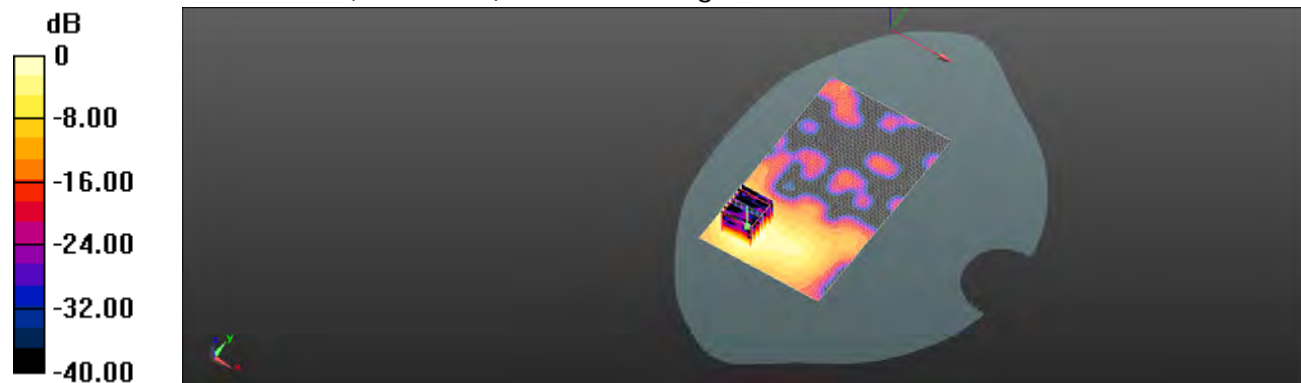
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.272 V/m; Power Drift = -0.01dB

Peak SAR (extrapolated) = 1.51 W/kg

#### SAR(1 g) = 0.325 W/kg; SAR(10 g) = 0.113 W/kg

Maximum value of SAR (measured) = 0.636 W/kg


 $0 \text{ dB} = 0.636 \text{ W/kg} = -1.97 \text{ dBW/kg}$ 

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Date: 2013/7/20

### RE Cheek\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G; Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.146$  S/m;  $\epsilon_r = 35.251$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.433 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

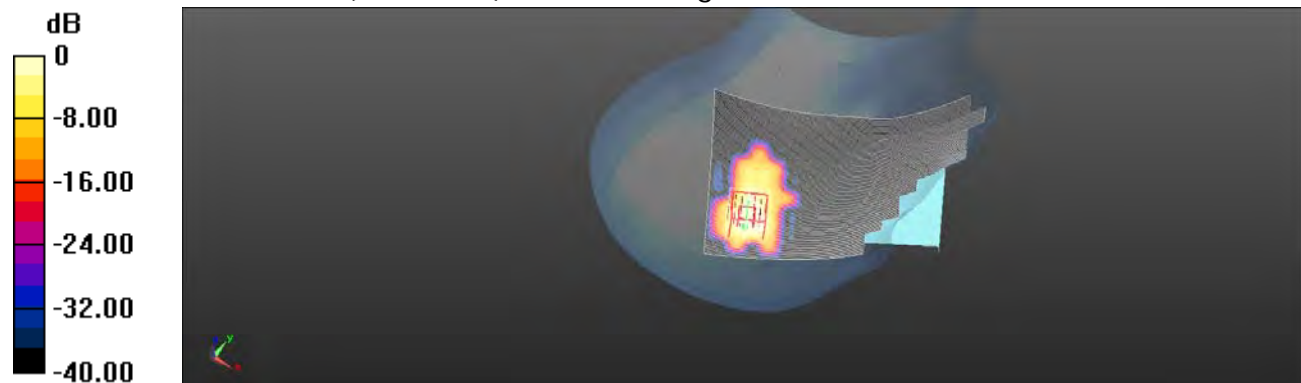
dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.875 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.940 W/kg

**SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.063 W/kg**

Maximum value of SAR (measured) = 0.468 W/kg



0 dB = 0.468 W/kg = -3.30 dBW/kg

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Date: 2013/7/20

### RE Tilt\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G; Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.146$  S/m;  $\epsilon_r = 35.251$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.461 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 8.175 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.955 W/kg

**SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.078 W/kg**

Maximum value of SAR (measured) = 0.481 W/kg



0 dB = 0.481 W/kg = -3.18 dBW/kg

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Date: 2013/7/20

### LE Cheek\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G; Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.146$  S/m;  $\epsilon_r = 35.251$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Cheek/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.542 W/kg

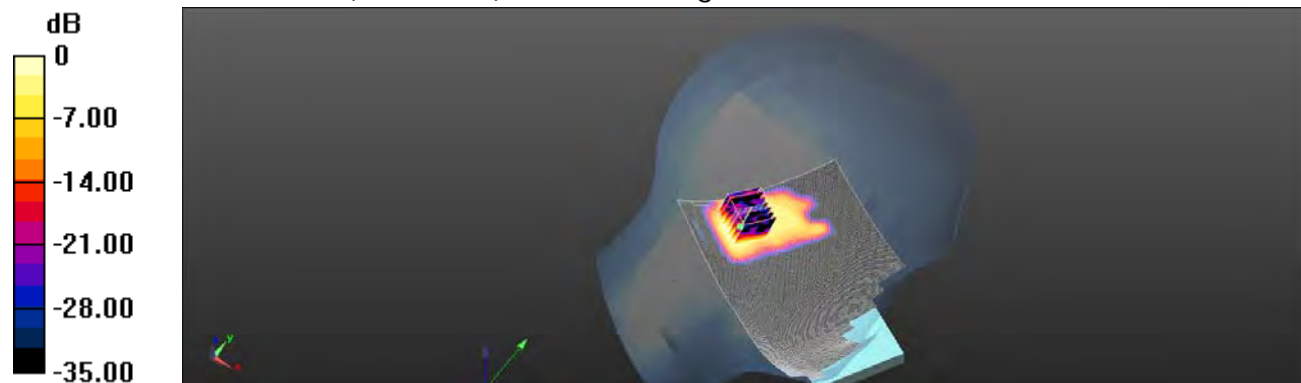
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.316 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.933 W/kg

**SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.089 W/kg**

Maximum value of SAR (measured) = 0.516 W/kg



0 dB = 0.516 W/kg = -2.87 dBW/kg

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Date: 2013/7/20

### LE Tilt\_WLAN802.11n(40M) 5.5G\_CH102

Communication System: WLAN 5G; Frequency: 5510 MHz

 Medium parameters used:  $f = 5510 \text{ MHz}$ ;  $\sigma = 4.988 \text{ S/m}$ ;  $\epsilon_r = 35.579$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.595 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

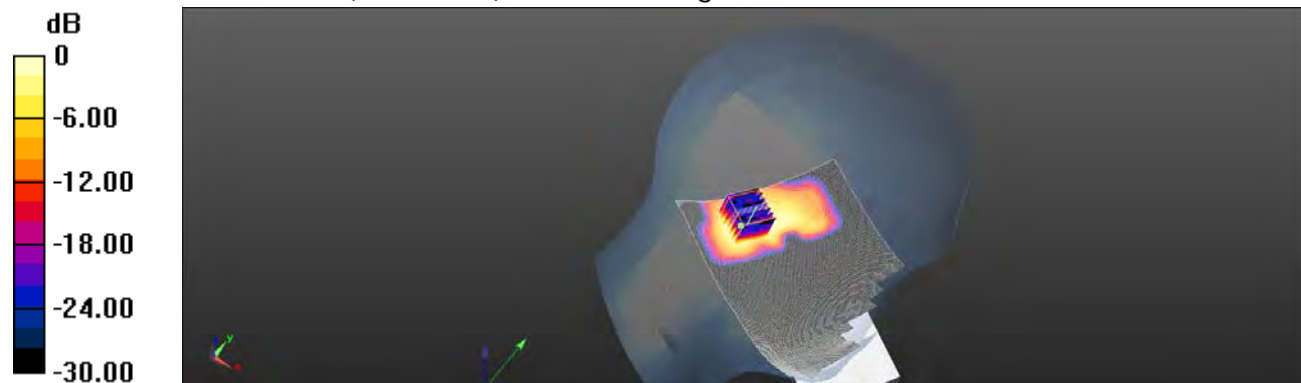
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 9.297 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 1.01 W/kg

**SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.113 W/kg**

Maximum value of SAR (measured) = 0.579 W/kg


 $0 \text{ dB} = 0.579 \text{ W/kg} = -2.37 \text{ dBW/kg}$ 

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Date: 2013/7/20

### LE Tilt\_WLAN802.11n(40M) 5.5G\_CH134

Communication System: WLAN 5G; Frequency: 5670 MHz

Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.146$  S/m;  $\epsilon_r = 35.251$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.620 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

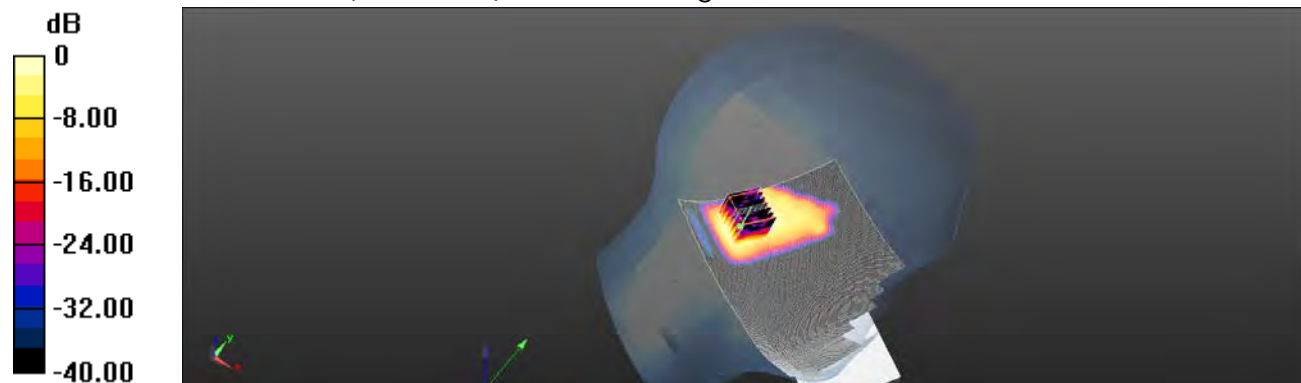
dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.906 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.299 W/kg; SAR(10 g) = 0.100 W/kg**

Maximum value of SAR (measured) = 0.588 W/kg



0 dB = 0.588 W/kg = -2.31 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Back side\_WLAN802.11n(40M) 5.5G\_CH102

Communication System: WLAN 5G; Frequency: 5510 MHz

Medium parameters used:  $f = 5510 \text{ MHz}$ ;  $\sigma = 5.721 \text{ S/m}$ ;  $\epsilon_r = 48.802$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.340 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

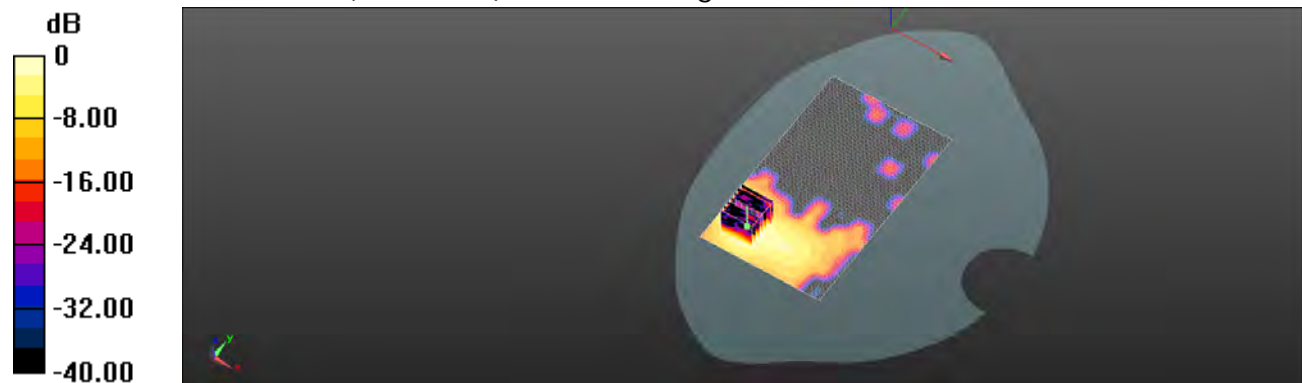
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.524 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.837 W/kg

#### SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.352 W/kg



0 dB = 0.352 W/kg = -4.53 dBW/kg

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Date: 2013/7/22

### LE Tilt\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.312 \text{ S/m}$ ;  $\epsilon_r = 35.097$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.579 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

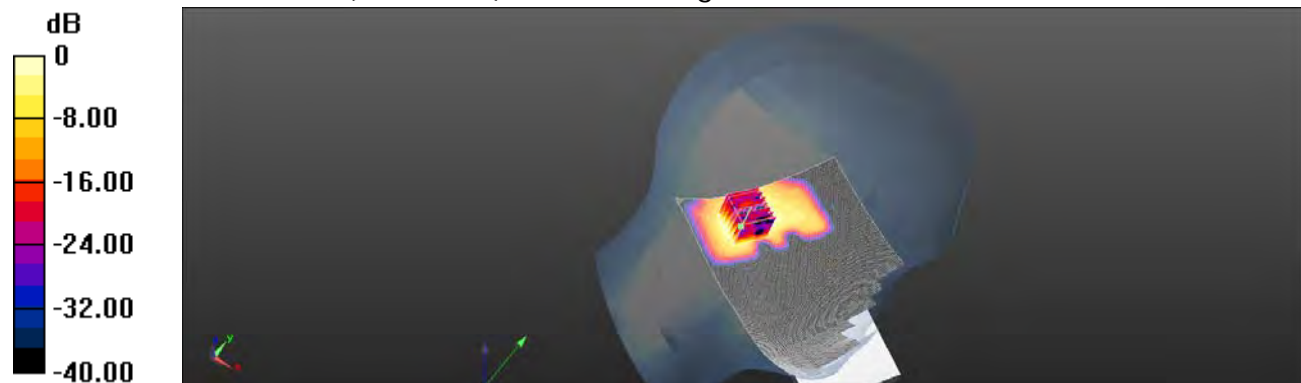
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.923 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.920 W/kg

**SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.091 W/kg**

Maximum value of SAR (measured) = 0.507 W/kg



0 dB = 0.507 W/kg = -2.95 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Back side\_WLAN802.11a 5.8G\_CH149

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.061 \text{ S/m}$ ;  $\epsilon_r = 48.334$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.189 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

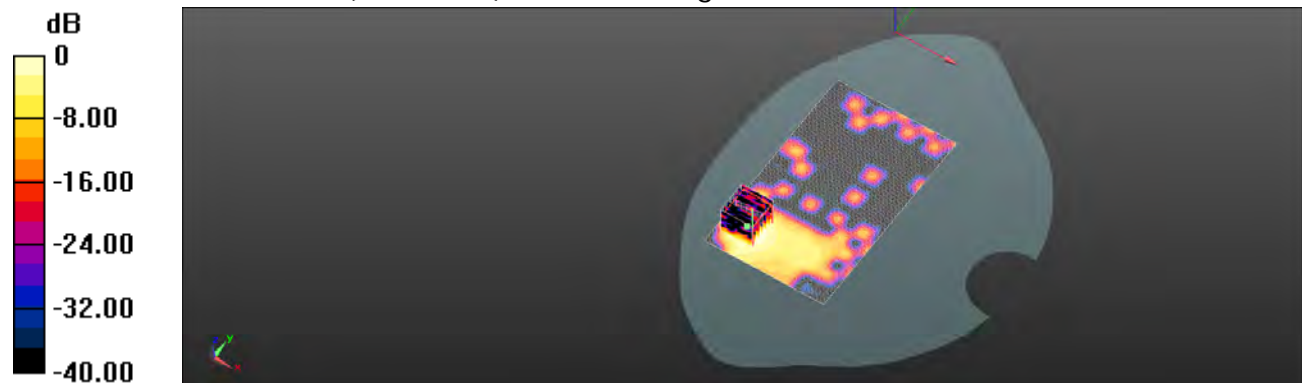
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.567 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.376 W/kg

#### SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.029 W/kg

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



0 dB = 0.185 W/kg = -7.33 dBW/kg

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Date: 2013/7/22

### RE Cheek\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.312 \text{ S/m}$ ;  $\epsilon_r = 35.097$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Cheek/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.489 W/kg

**Configuration/RE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

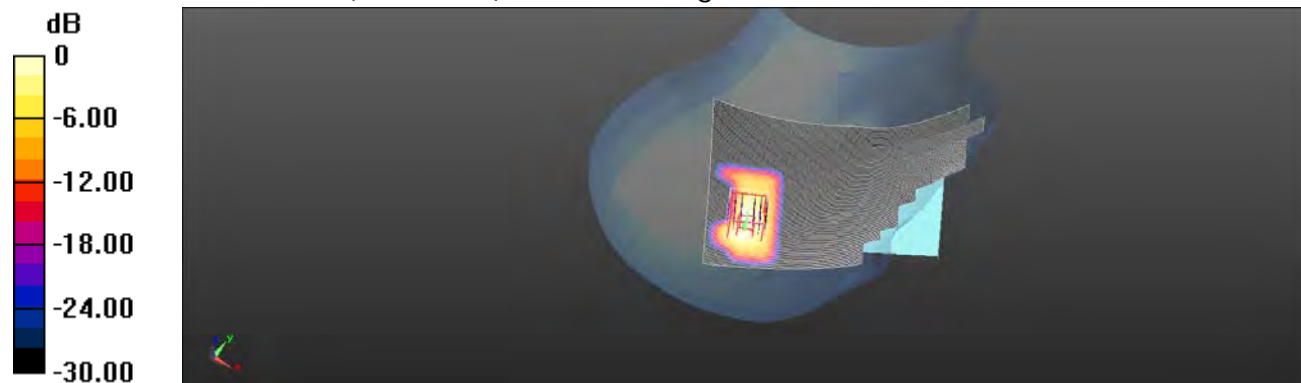
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.213 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.877 W/kg

**SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.067 W/kg**

Maximum value of SAR (measured) = 0.446 W/kg



0 dB = 0.446 W/kg = -3.51 dBW/kg

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/7/22

### RE Tilt\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.312 \text{ S/m}$ ;  $\epsilon_r = 35.097$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/RE Tilt/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.399 W/kg

**Configuration/RE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

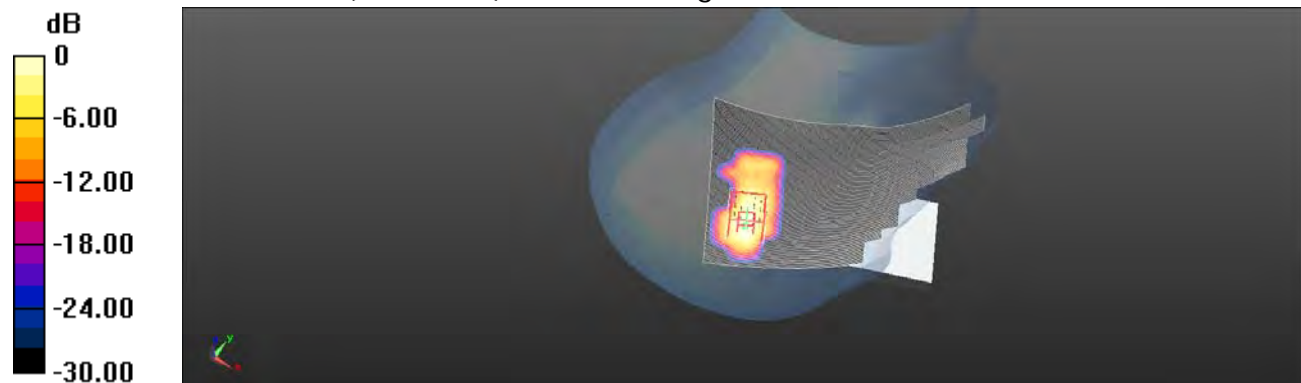
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 6.950 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.818 W/kg

**SAR(1 g) = 0.196 W/kg; SAR(10 g) = 0.060 W/kg**

Maximum value of SAR (measured) = 0.415 W/kg



0 dB = 0.415 W/kg = -3.82 dBW/kg

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Date: 2013/7/22

### LE Cheek\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.312 \text{ S/m}$ ;  $\epsilon_r = 35.097$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Cheek/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.511 W/kg

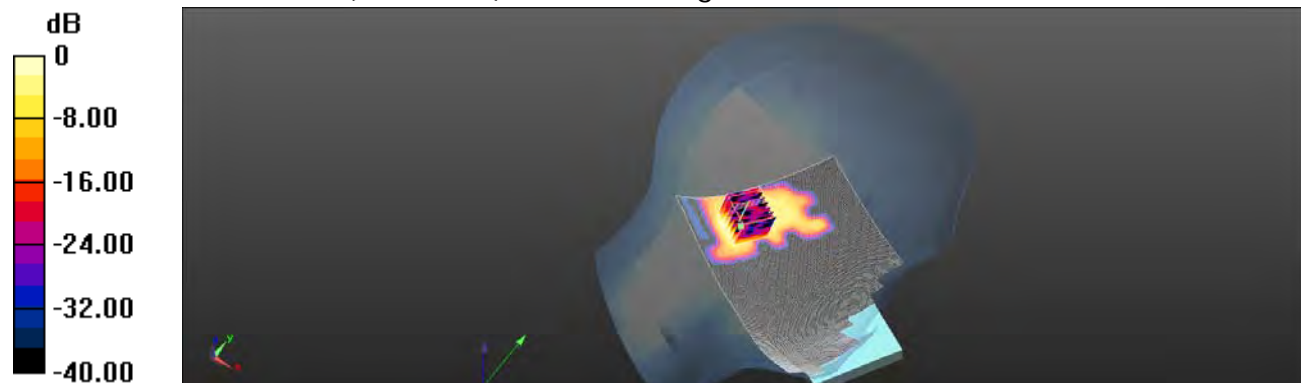
**Configuration/LE Cheek/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 5.541 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.762 W/kg

**SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.070 W/kg**

Maximum value of SAR (measured) = 0.445 W/kg



0 dB = 0.445 W/kg = -3.52 dBW/kg

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Date: 2013/7/22

### LE Tilt\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G; Frequency: 5745 MHz

 Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 5.312 \text{ S/m}$ ;  $\epsilon_r = 35.097$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.544 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

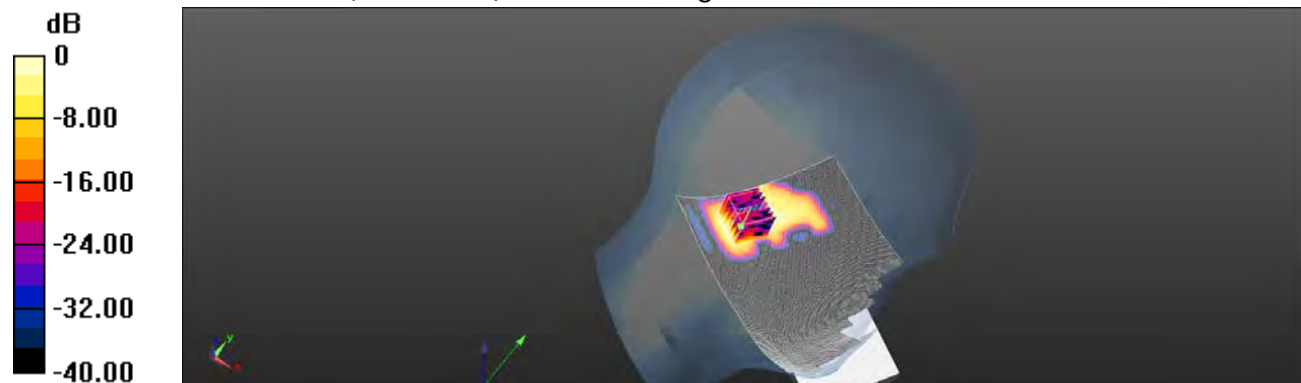
 $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 6.731 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 0.875 W/kg

**SAR(1 g) = 0.244 W/kg; SAR(10 g) = 0.082 W/kg**

Maximum value of SAR (measured) = 0.466 W/kg



0 dB = 0.466 W/kg = -3.32 dBW/kg

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Date: 2013/7/22

### LE Tilt\_WLAN802.11n(20M) 5.8G\_CH157

Communication System: WLAN 5G; Frequency: 5785 MHz

Medium parameters used:  $f = 5785 \text{ MHz}$ ;  $\sigma = 5.369 \text{ S/m}$ ;  $\epsilon_r = 35.015$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.444 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

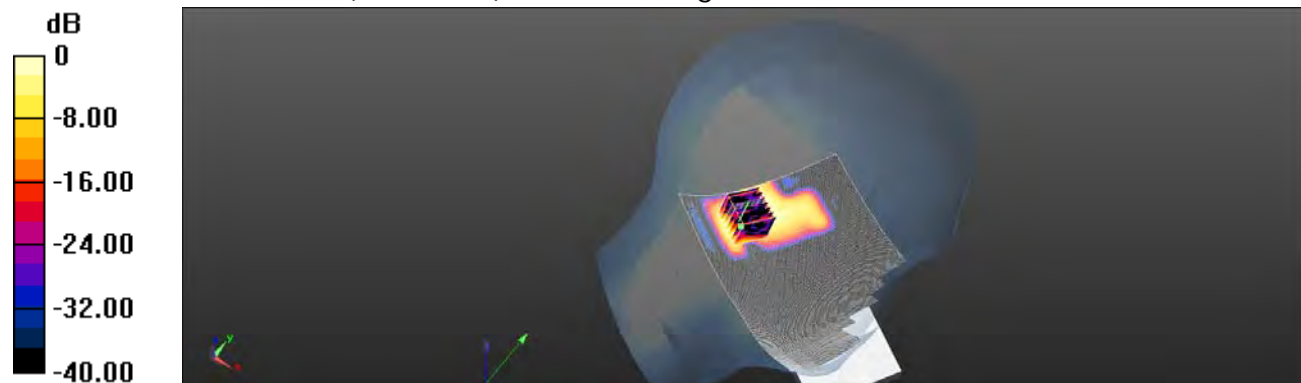
$dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 5.760 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.647 W/kg

**SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.057 W/kg**

Maximum value of SAR (measured) = 0.355 W/kg



0 dB = 0.355 W/kg = -4.50 dBW/kg

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Date: 2013/7/22

### LE Tilt\_WLAN802.11n(20M) 5.8G\_CH165

Communication System: WLAN 5G; Frequency: 5825 MHz

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 5.425$  S/m;  $\epsilon_r = 34.934$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.461 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

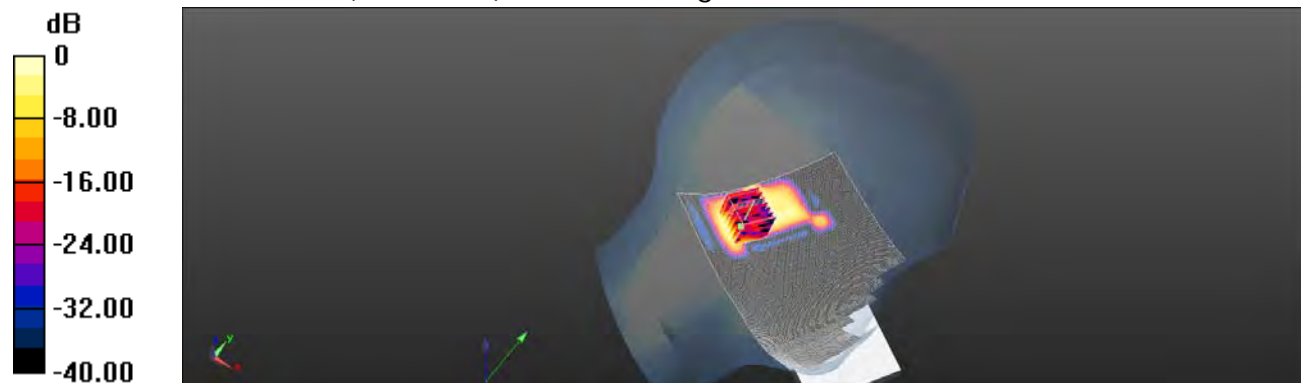
dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.608 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.562 W/kg

**SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.050 W/kg**

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



0 dB = 0.310 W/kg = -5.09 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Back side\_WLAN802.11n(20M) 5.8G\_CH149

Communication System: WLAN 5G; Frequency: 5745 MHz

Medium parameters used:  $f = 5745 \text{ MHz}$ ;  $\sigma = 6.061 \text{ S/m}$ ;  $\epsilon_r = 48.334$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.196 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

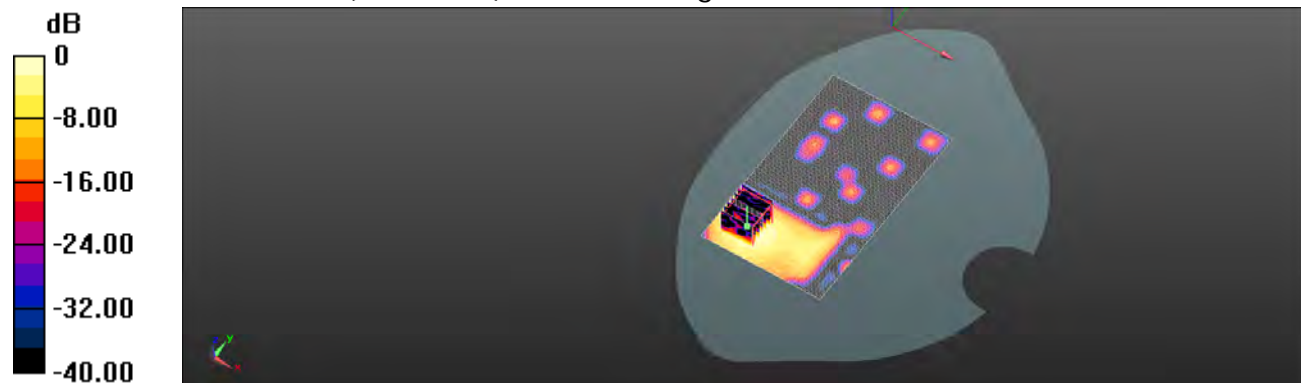
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.588 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.407 W/kg

#### SAR(1 g) = 0.094 W/kg; SAR(10 g) = 0.029 W/kg

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



0 dB = 0.197 W/kg = -7.06 dBW/kg

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Date: 2013/7/22

### LE Tilt\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G; Frequency: 5755 MHz

Medium parameters used:  $f = 5755$  MHz;  $\sigma = 5.326$  S/m;  $\epsilon_r = 35.077$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

**Configuration/LE Tilt/Area Scan (111x171x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.602 W/kg

**Configuration/LE Tilt/Zoom Scan (7x7x12)/Cube 0:** Measurement grid:

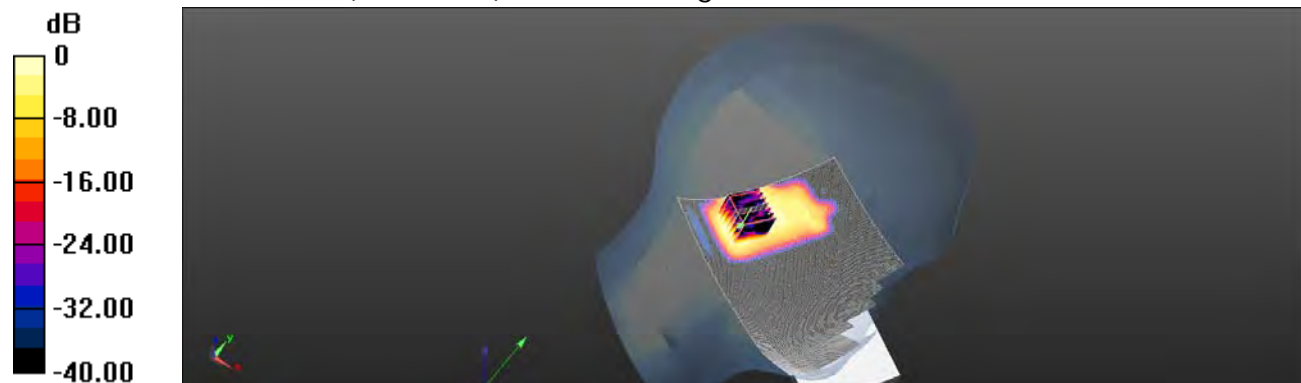
dx=4mm, dy=4mm, dz=2mm

Reference Value = 7.452 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.100 W/kg**

Maximum value of SAR (measured) = 0.569 W/kg



0 dB = 0.569 W/kg = -2.45 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Front side\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G; Frequency: 5755 MHz

 Medium parameters used:  $f = 5755$  MHz;  $\sigma = 6.078$  S/m;  $\epsilon_r = 48.299$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 0.0762 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

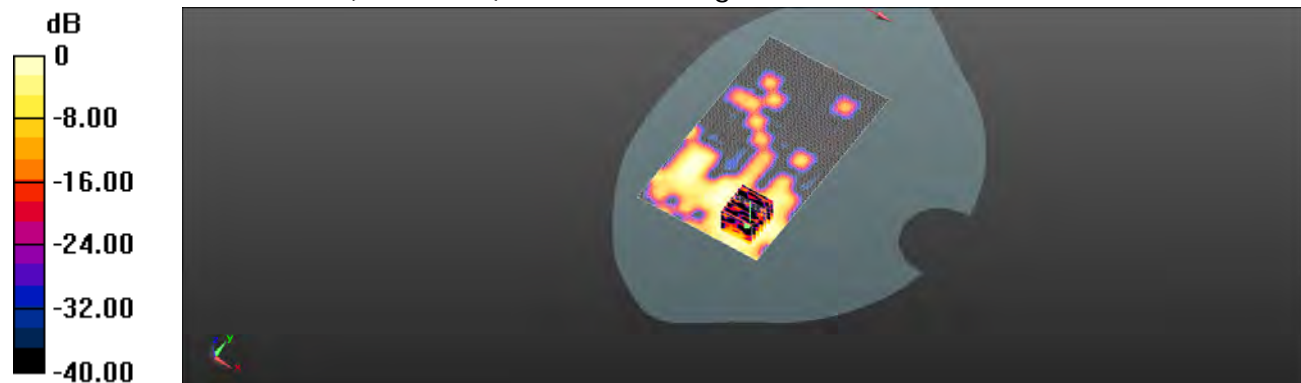
grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.929 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.236 W/kg

#### SAR(1 g) = 0.034 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0752 W/kg



0 dB = 0.0752 W/kg = -11.24 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Back side\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G; Frequency: 5755 MHz

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 6.078 \text{ S/m}$ ;  $\epsilon_r = 48.299$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.272 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

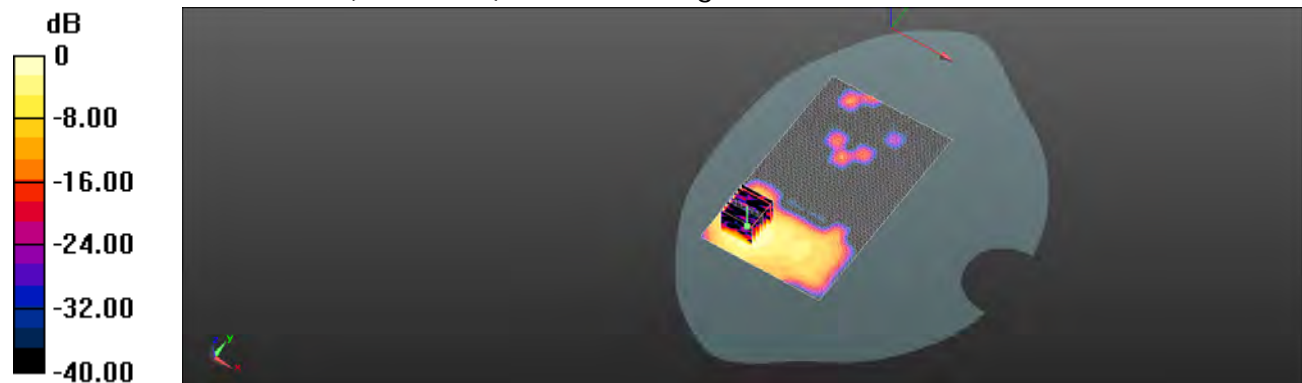
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.511 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.567 W/kg

#### SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.039 W/kg

Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.279 W/kg = -5.54 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Back side\_WLAN802.11n(40M) 5.8G\_CH159

Communication System: WLAN 5G; Frequency: 5795 MHz

Medium parameters used:  $f = 5795 \text{ MHz}$ ;  $\sigma = 6.157 \text{ S/m}$ ;  $\epsilon_r = 48.244$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (91x151x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.221 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

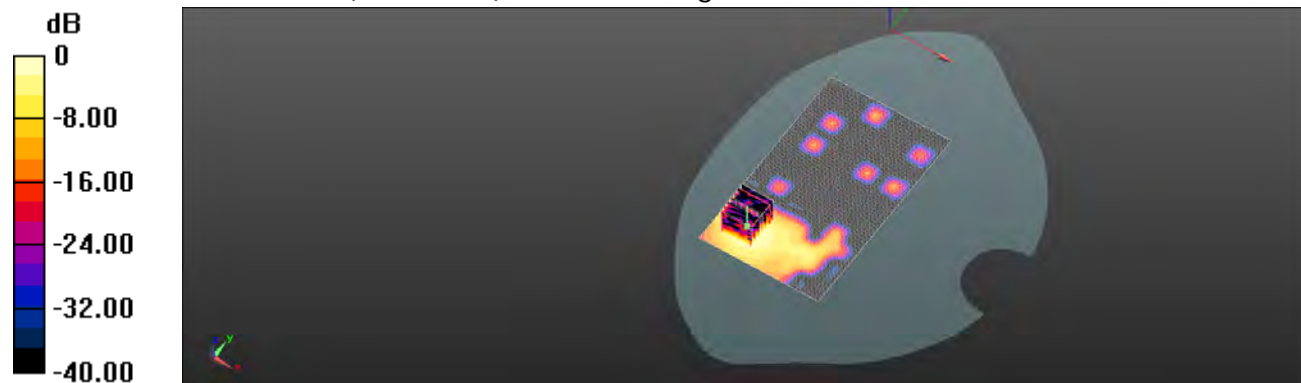
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.504 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.462 W/kg

#### SAR(1 g) = 0.107 W/kg; SAR(10 g) = 0.033 W/kg

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



0 dB = 0.231 W/kg = -6.36 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Top side\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G; Frequency: 5755 MHz

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 6.078 \text{ S/m}$ ;  $\epsilon_r = 48.299$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (61x101x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.170 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

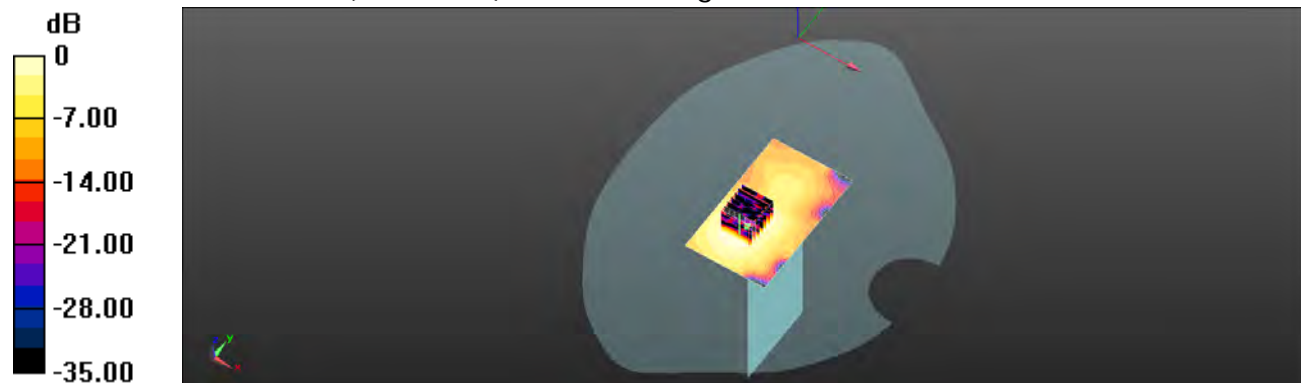
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 4.418 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.434 W/kg

#### SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.035 W/kg

Maximum value of SAR (measured) = 0.173 W/kg



0 dB = 0.173 W/kg = -7.62 dBW/kg

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Date: 2013/7/22

### Hotspot mode\_Left side\_WLAN802.11n(40M) 5.8G\_CH151

Communication System: WLAN 5G; Frequency: 5755 MHz

Medium parameters used:  $f = 5755 \text{ MHz}$ ;  $\sigma = 6.078 \text{ S/m}$ ;  $\epsilon_r = 48.299$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

#### Configuration/Hotspot mode/Area Scan (61x161x1): Interpolated grid:

$dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.119 W/kg

#### Configuration/Hotspot mode/Zoom Scan (7x7x12)/Cube 0: Measurement

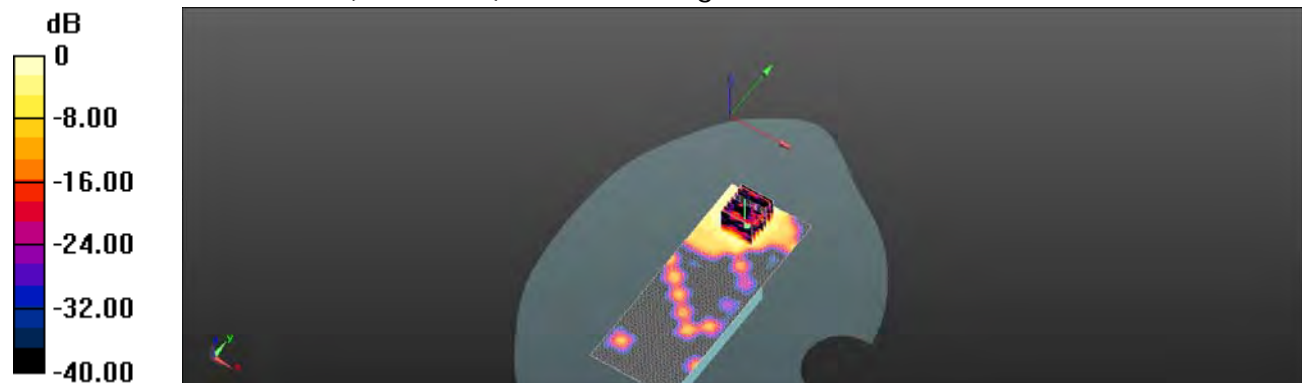
grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 0.824 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.292 W/kg

#### SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.120 W/kg



0 dB = 0.120 W/kg = -9.21 dBW/kg

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## 6. System Verification

Type No.: PM-0480-BV

Date: 2013/5/4

### Dipole\_835 MHz (Head)

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.891$  S/m;  $\epsilon_r = 41.49$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.68, 5.68, 5.68); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Head Tissue/Pin=250mW, d=15mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.92 W/kg

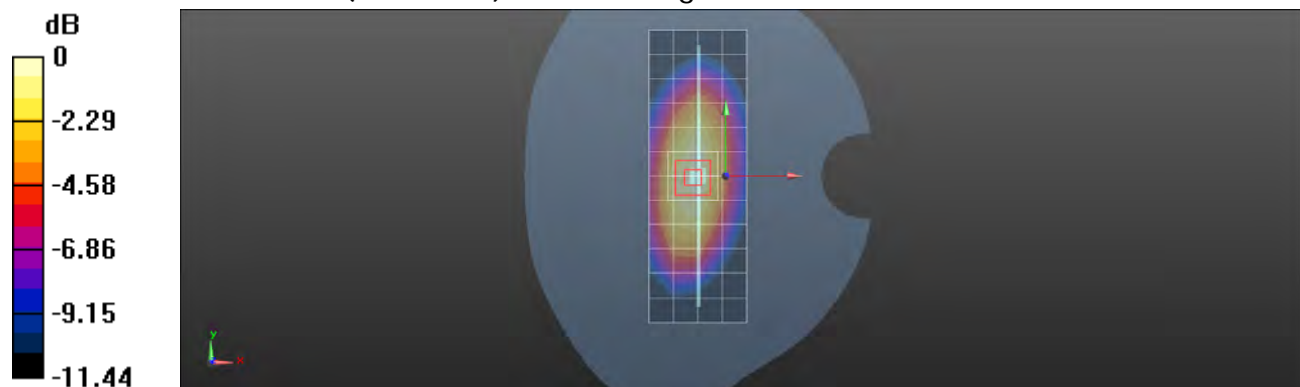
### Dipole Calibration for Head Tissue/Pin=250mW, d=15mm/Zoom Scan /Cube 0:

Reference Value = 58.404 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.60 W/kg

**SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.5 W/kg**

Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 3.02 W/kg = 4.80 dBW/kg

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Date: 2013/5/4

### Dipole\_835 MHz (Body)

Communication System: CW; Frequency: 835 MHz

 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.985 \text{ S/m}$ ;  $\epsilon_r = 56.373$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(5.69, 5.69, 5.69); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Body Tissue/Pin=250mW, d=15mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 2.97 W/kg

### Dipole Calibration for Body Tissue/Pin=250mW, d=15mm/Zoom Scan /Cube 0:

Reference Value = 57.261 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.72 W/kg

### SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 3.13 W/kg


 $0 \text{ dB} = 3.13 \text{ W/kg} = 4.96 \text{ dBW/kg}$ 

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Date: 2013/5/6

### Dipole\_1750 MHz (Head)

Communication System: CW; Frequency: 1750 MHz

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.365$  S/m;  $\epsilon_r = 41.721$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.89, 4.89, 4.89; Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 9.46 W/kg

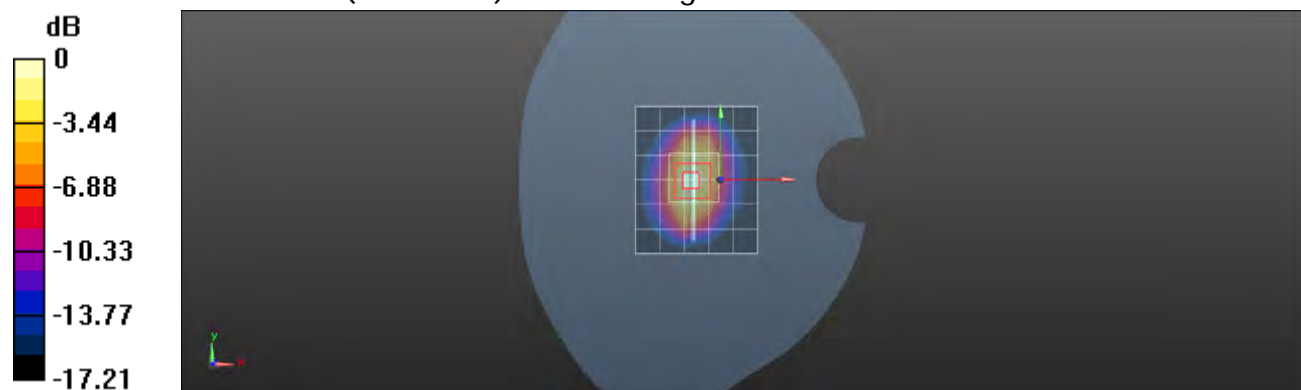
### Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 95.810 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 15.9 W/kg

### SAR(1 g) = 8.47 W/kg; SAR(10 g) = 4.49 W/kg

Maximum value of SAR (measured) = 11.7 W/kg



0 dB = 11.7 W/kg = 10.68 dBW/kg

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Date: 2013/5/6

### Dipole\_1750 MHz (Body)

Communication System: CW; Frequency: 1750 MHz

 Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.477$  S/m;  $\epsilon_r = 52.711$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.5, 4.5, 4.5); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 12.8 W/kg

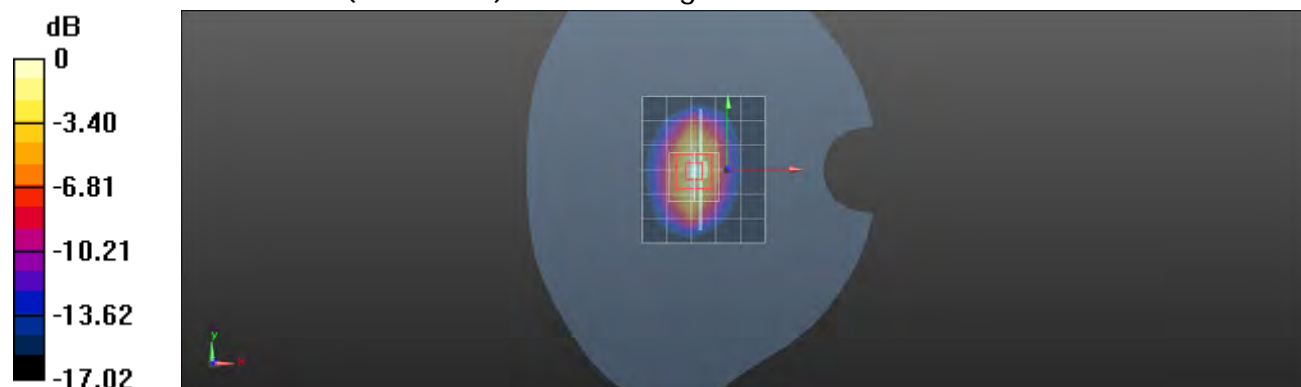
### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 91.936 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.4 W/kg

### SAR(1 g) = 9.25 W/kg; SAR(10 g) = 4.94 W/kg

Maximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.17 dBW/kg

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Date: 2013/5/8

### Dipole\_1900 MHz (Head)

Communication System: CW; Frequency: 1900 MHz

 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.379$  S/m;  $\epsilon_r = 41.096$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.66, 4.66, 4.66); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.2 W/kg

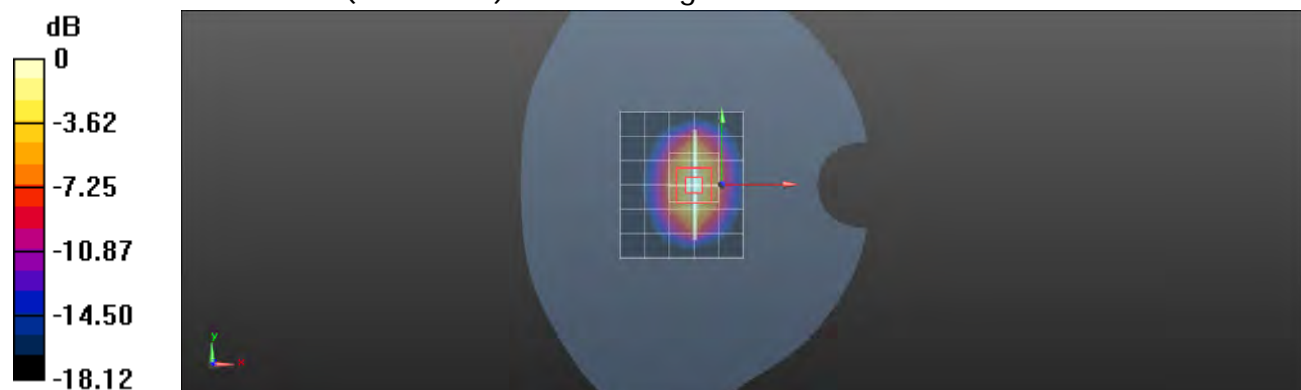
### Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 103.4 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 18.2 W/kg

### SAR(1 g) = 9.84 W/kg; SAR(10 g) = 5.13 W/kg

Maximum value of SAR (measured) = 14.2 W/kg



0 dB = 14.2 W/kg = 11.52 dBW/kg

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Date: 2013/5/8

### Dipole\_1900 MHz (Body)

Communication System: CW; Frequency: 1900 MHz

 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.531$  S/m;  $\epsilon_r = 51.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.29, 4.29, 4.29); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 14.8 W/kg

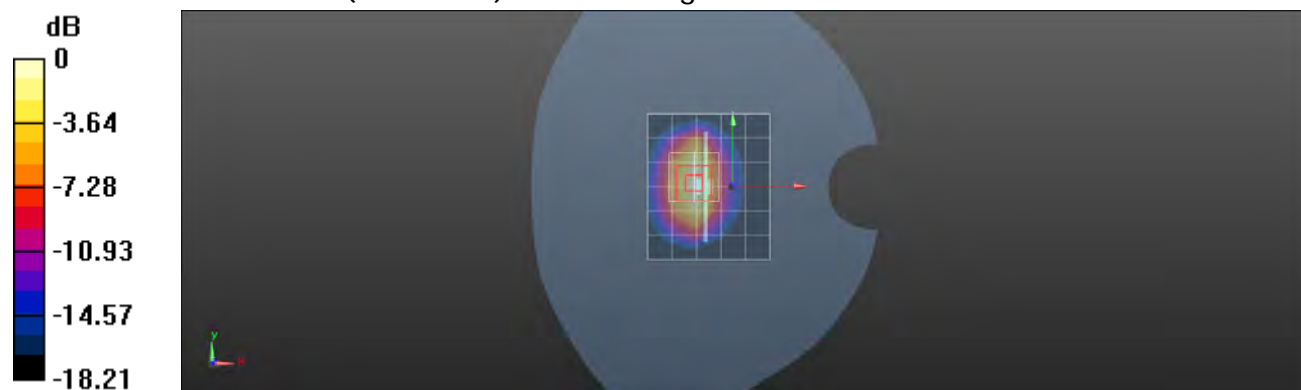
### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 83.403 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 18.6 W/kg

### SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.23 W/kg

Maximum value of SAR (measured) = 14.5 W/kg



0 dB = 14.5 W/kg = 11.61 dBW/kg

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Date: 2013/5/10

### Dipole\_2450 MHz (Head)

Communication System: CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.803$  S/m;  $\epsilon_r = 38.954$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(4.08, 4.08, 4.08); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 15.0 W/kg

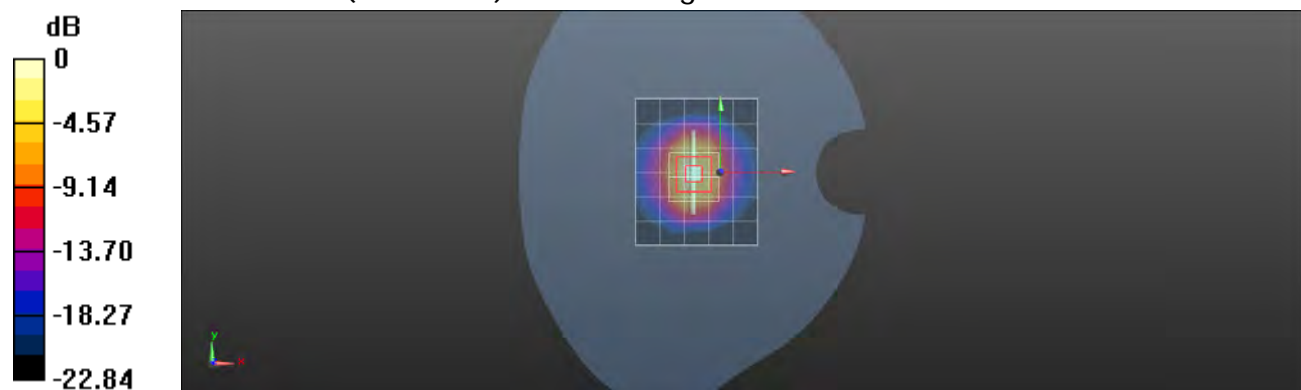
### Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 106.4 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.3 W/kg

### SAR(1 g) = 13.2 W/kg; SAR(10 g) = 5.95 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

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Date: 2013/5/10

### Dipole\_2450 MHz (Body)

Communication System: CW; Frequency: 2450 MHz

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.942$  S/m;  $\epsilon_r = 54.364$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: ES3DV3 - SN3071; ConvF(3.87, 3.87, 3.87); Calibrated: 2012/6/22;
- Sensor-Surface: 3.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan:

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 17.0 W/kg

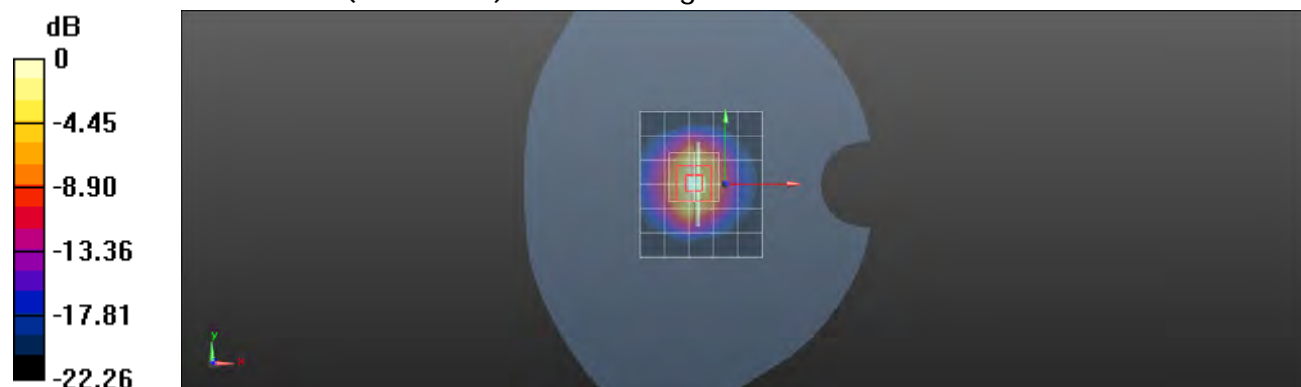
### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 95.448 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 24.8 W/kg

### SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.67 W/kg

Maximum value of SAR (measured) = 18.4 W/kg



0 dB = 18.4 W/kg = 12.65 dBW/kg

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Date: 2013/5/12

### Dipole\_5.2GHz (Head)

Communication System: CW; Frequency: 5200 MHz

 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.577$  S/m;  $\epsilon_r = 36.224$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(5.01, 5.01, 5.01); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan:

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.1 W/kg

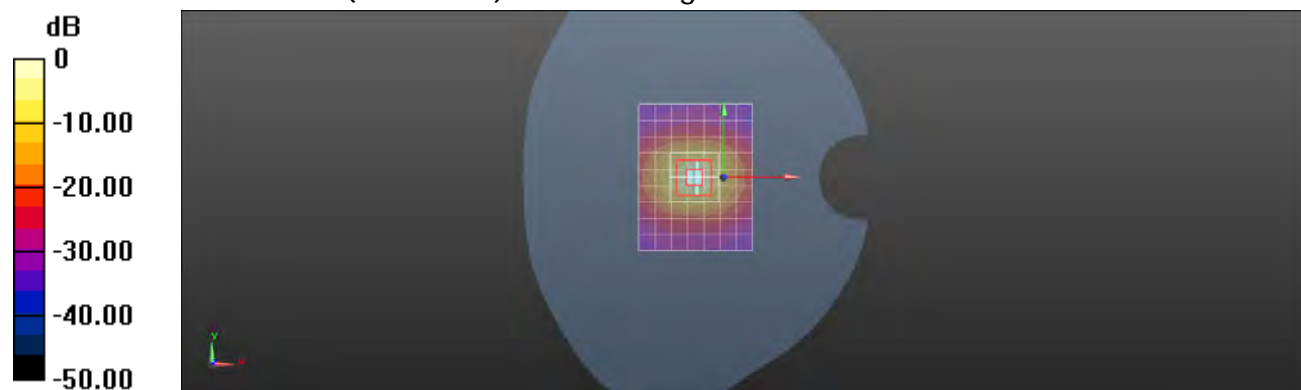
### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 68.042 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 34.0 W/kg

### SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.34 W/kg

Maximum value of SAR (measured) = 17.8 W/kg



0 dB = 17.8 W/kg = 12.50 dBW/kg

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Date: 2013/5/17

### Dipole\_5.2GHz (Body)

Communication System: CW; Frequency: 5200 MHz

 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 5.303$  S/m;  $\epsilon_r = 49.549$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.23, 4.23, 4.23); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan:

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 12.3 W/kg

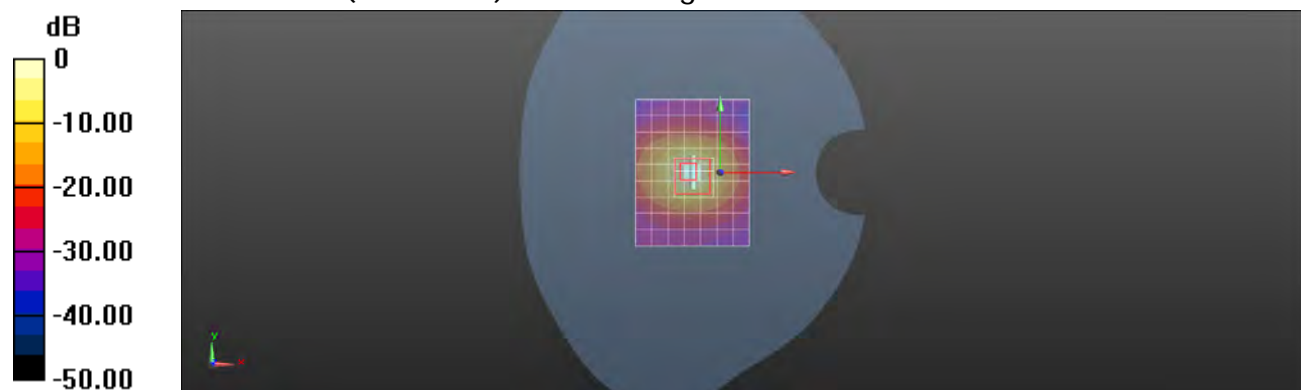
### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 61.810 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 34.5 W/kg

### SAR(1 g) = 7.31 W/kg; SAR(10 g) = 2.02 W/kg

Maximum value of SAR (measured) = 17.9 W/kg



0 dB = 17.9 W/kg = 12.53 dBW/kg

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Date: 2013/5/15

### Dipole\_5.5GHz (Head)

Communication System: CW; Frequency: 5500 MHz

 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 4.978$  S/m;  $\epsilon_r = 35.612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.58, 4.58, 4.58); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm /Area Scan:

Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 14.8 W/kg

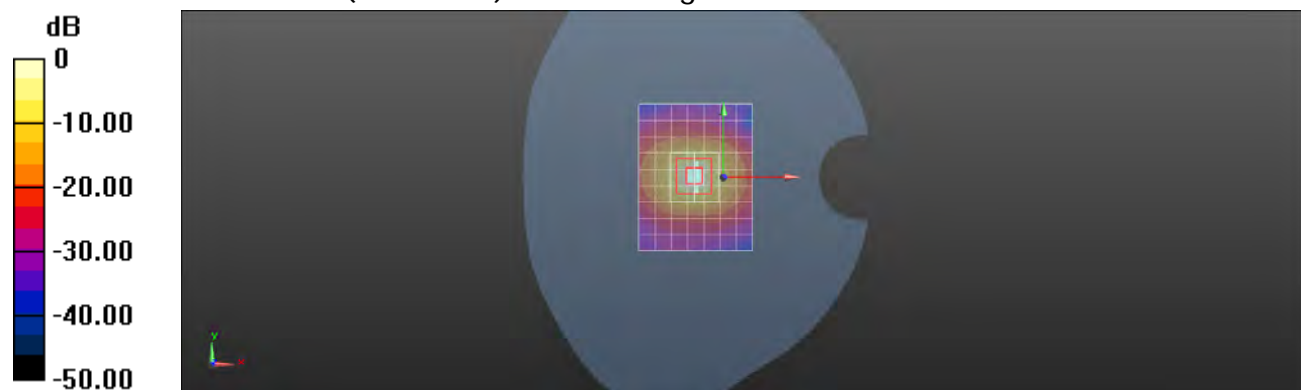
### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan/Cube 0:

Reference Value = 72.050 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 42.2 W/kg

### SAR(1 g) = 8.65 W/kg; SAR(10 g) = 2.48 W/kg

Maximum value of SAR (measured) = 20.5 W/kg



0 dB = 20.5 W/kg = 13.12 dBW/kg

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Date: 2013/5/18

### Dipole\_5.5GHz (Body)

Communication System: CW; Frequency: 5500 MHz

 Medium parameters used:  $f = 5500$  MHz;  $\sigma = 5.734$  S/m;  $\epsilon_r = 48.911$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.63, 3.63, 3.63); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan:

Measurement grid: dx=10mm, dy=10mm

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

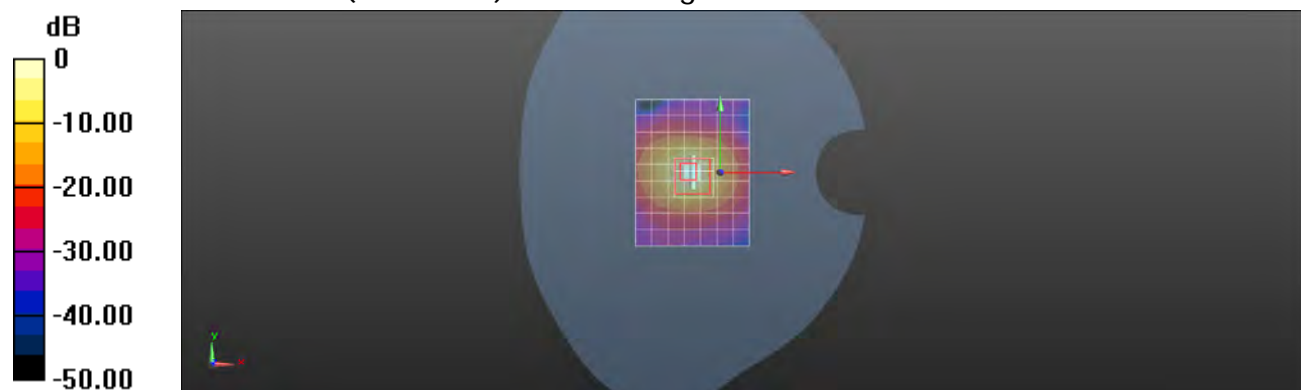
### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 63.946 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 37.2 W/kg

### SAR(1 g) = 7.94 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

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Date: 2013/5/20

### Dipole\_5.8GHz (Head)

Communication System: CW; Frequency: 5800 MHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.394 \text{ S/m}$ ;  $\epsilon_r = 34.999$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(4.52, 4.52, 4.52); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm /Area Scan:

Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 13.3 W/kg

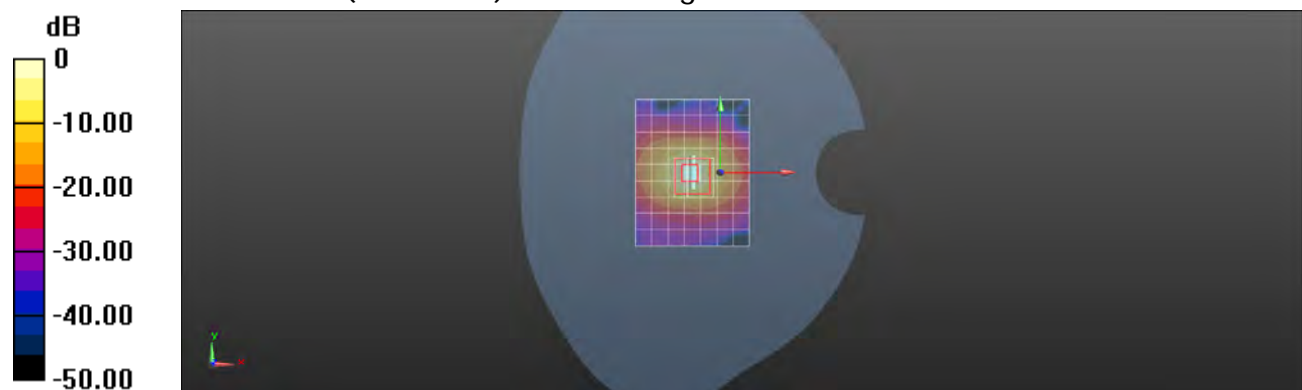
### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm /Zoom Scan /Cube 0:

Reference Value = 63.070 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 42.2 W/kg

### SAR(1 g) = 7.84 W/kg; SAR(10 g) = 2.19 W/kg

Maximum value of SAR (measured) = 19.9 W/kg



0 dB = 19.9 W/kg = 12.99 dBW/kg

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Date: 2013/5/20

### Dipole\_5.8GHz (Body)

Communication System: CW; Frequency: 5800 MHz

 Medium parameters used:  $f = 5800$  MHz;  $\sigma = 6.19$  S/m;  $\epsilon_r = 48.322$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3820; ConvF(3.83, 3.83, 3.83); Calibrated: 2012/12/10;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2012/6/5
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.5(1059); SEMCAD X 14.6.8(7028)

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

**(8x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 11.6 W/kg

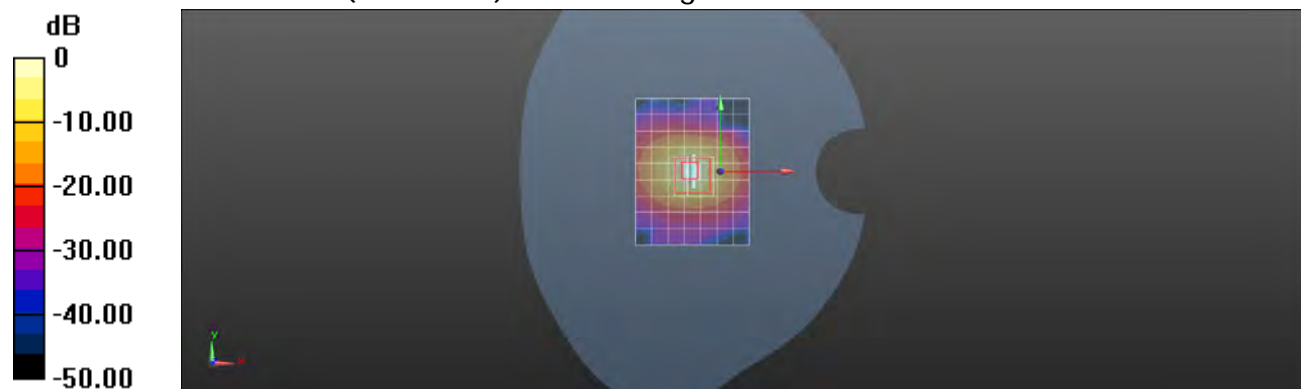
### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan /Cube 0:

Reference Value = 57.528 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 34.4 W/kg

### SAR(1 g) = 7.36 W/kg; SAR(10 g) = 2.01 W/kg

Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.30 dBW/kg

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## Type No.: PM-0481-BV

Date: 2013/7/12

### Dipole\_835 MHz (Head)

Communication System: CW; Frequency: 835 MHz

 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.896 \text{ S/m}$ ;  $\epsilon_r = 41.904$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.67, 9.67, 9.67); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Head Tissue/Pin=250mW, d=15mm/Area Scan (41x121x1):

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

Maximum value of SAR (interpolated) = 3.17 W/kg

### Dipole Calibration for Head Tissue/Pin=250mW, d=15mm/Zoom Scan (5x5x7)/Cube 0:

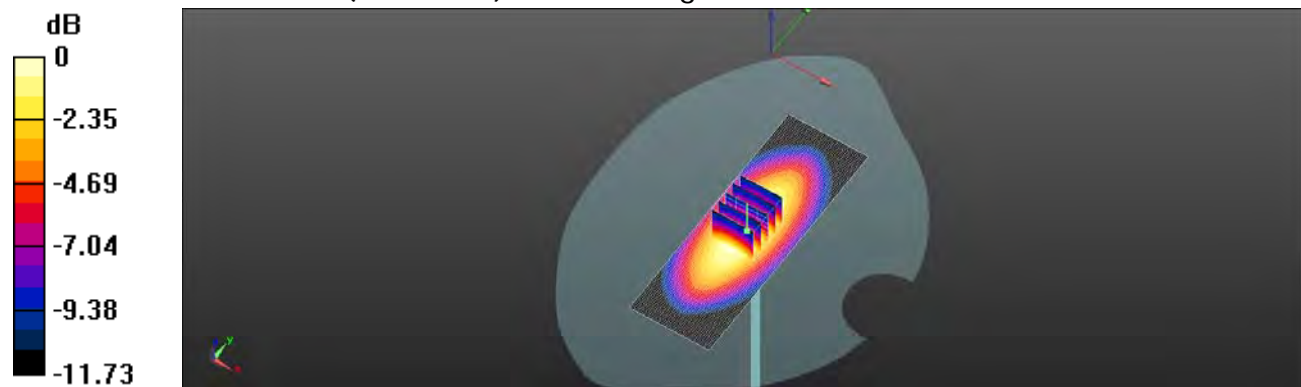
 Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 59.915 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.86 W/kg

### SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 3.19 W/kg


 $0 \text{ dB} = 3.19 \text{ W/kg} = 5.04 \text{ dBW/kg}$ 

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Date: 2013/7/12

### Dipole\_835 MHz (Body)

Communication System: CW; Frequency: 835 MHz

 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.985 \text{ S/m}$ ;  $\epsilon_r = 56.365$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(9.43, 9.43, 9.43); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Body Tissue/Pin=250mW, d=15mm/Area Scan

**(51x131x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$ 

Maximum value of SAR (interpolated) = 3.08 W/kg

### Dipole Calibration for Body Tissue/Pin=250mW, d=15mm/Zoom Scan

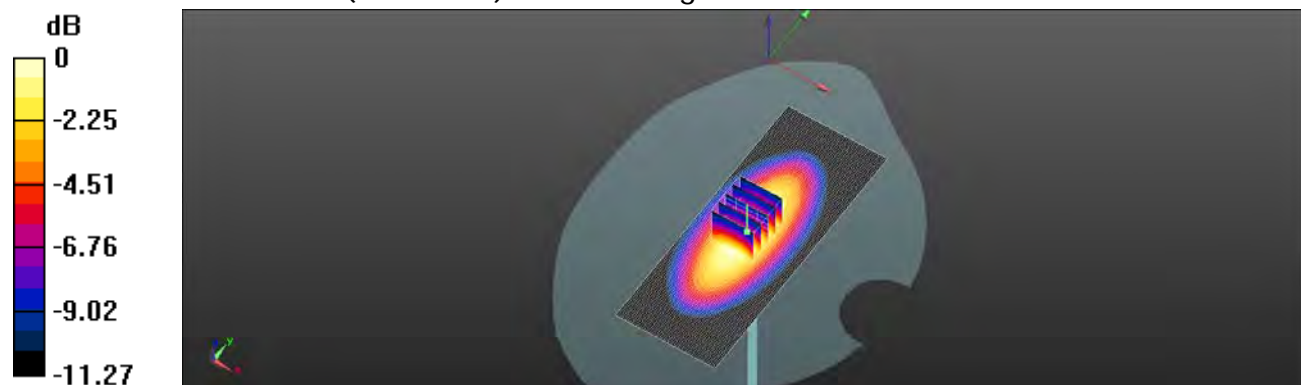
**(5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ 

Reference Value = 57.399 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.67 W/kg

### SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 3.12 W/kg


 $0 \text{ dB} = 3.12 \text{ W/kg} = 4.94 \text{ dBW/kg}$ 

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Date: 2013/7/12

### Dipole\_1750 MHz (Head)

Communication System: CW; Frequency: 1750 MHz

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.365$  S/m;  $\epsilon_r = 41.717$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.41, 8.41, 8.41); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Area Scan

**(51x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.0 W/kg

### Dipole Calibration for Head Tissue/Pin=250mW, d=10mm/Zoom Scan

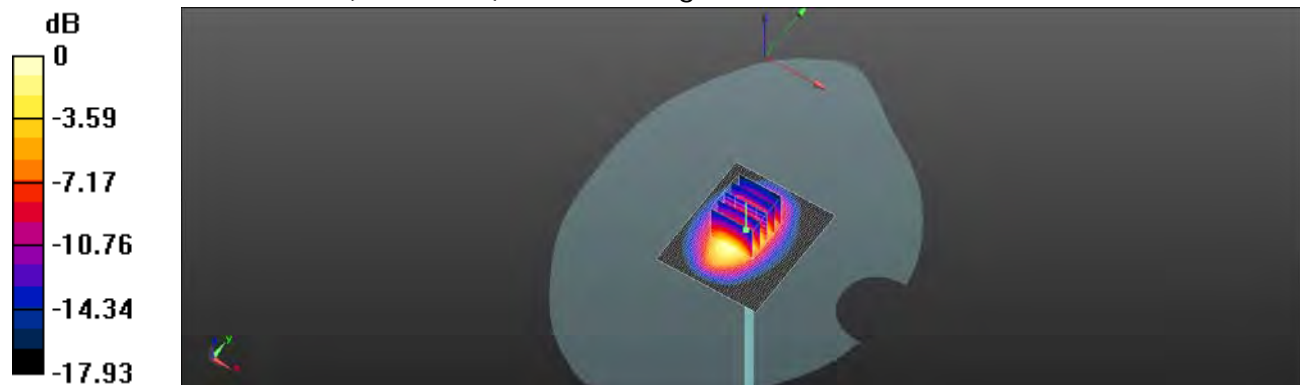
**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 97.601 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 16.1 W/kg

### SAR(1 g) = 8.87 W/kg; SAR(10 g) = 4.67 W/kg

Maximum value of SAR (measured) = 12.5 W/kg



0 dB = 12.5 W/kg = 10.97 dBW/kg

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Date: 2013/7/12

### Dipole\_1750 MHz (Body)

Communication System: CW; Frequency: 1750 MHz

Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.457$  S/m;  $\epsilon_r = 52.309$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.78, 7.78, 7.78); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan

**(51x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 13.5 W/kg

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan

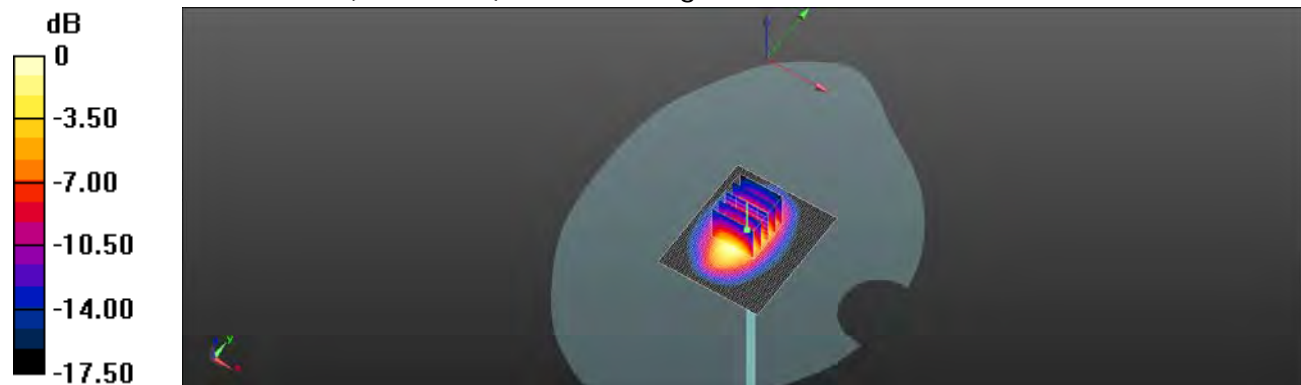
**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.162 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 16.3 W/kg

### SAR(1 g) = 9.08 W/kg; SAR(10 g) = 4.8 W/kg

Maximum value of SAR (measured) = 12.8 W/kg



0 dB = 12.8 W/kg = 11.07 dBW/kg

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Date: 2013/7/12

## Dipole\_1900 MHz (Head)

Communication System: CW; Frequency: 1900 MHz

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.38$  S/m;  $\epsilon_r = 41.052$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(8.13, 8.13, 8.13); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Configuration/Pin=250mW, d=10mm/Area Scan (51x61x1): Interpolated

grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 12.5 W/kg

### Configuration/Pin=250mW, d=10mm/Zoom Scan (7x7x7)

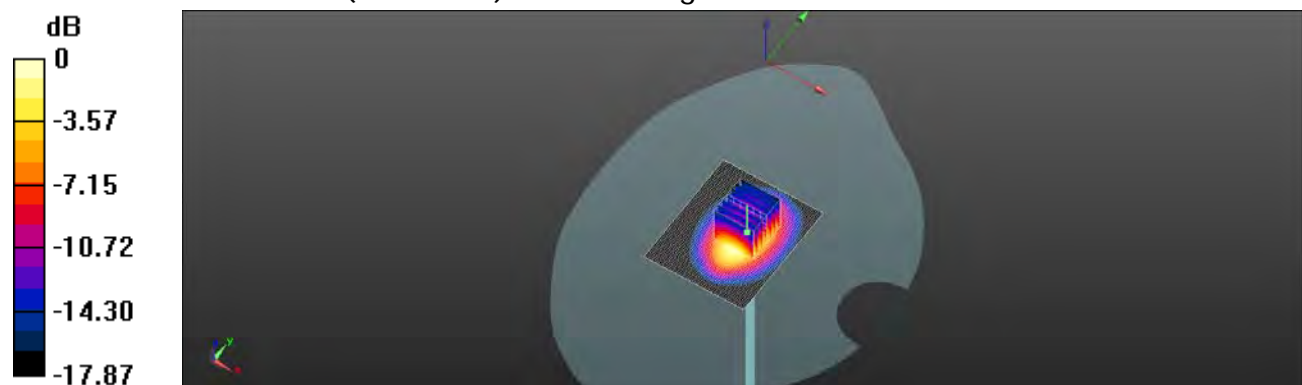
(5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 93.141 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 15.4 W/kg

### SAR(1 g) = 10.1 W/kg; SAR(10 g) = 5.18 W/kg

Maximum value of SAR (measured) = 11.9 W/kg



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

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Date: 2013/7/12

### Dipole\_1900 MHz (Body)

Communication System: CW; Frequency: 1900 MHz

 Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.537$  S/m;  $\epsilon_r = 52.023$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.41, 7.41, 7.41); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan

**(51x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 14.4 W/kg

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan

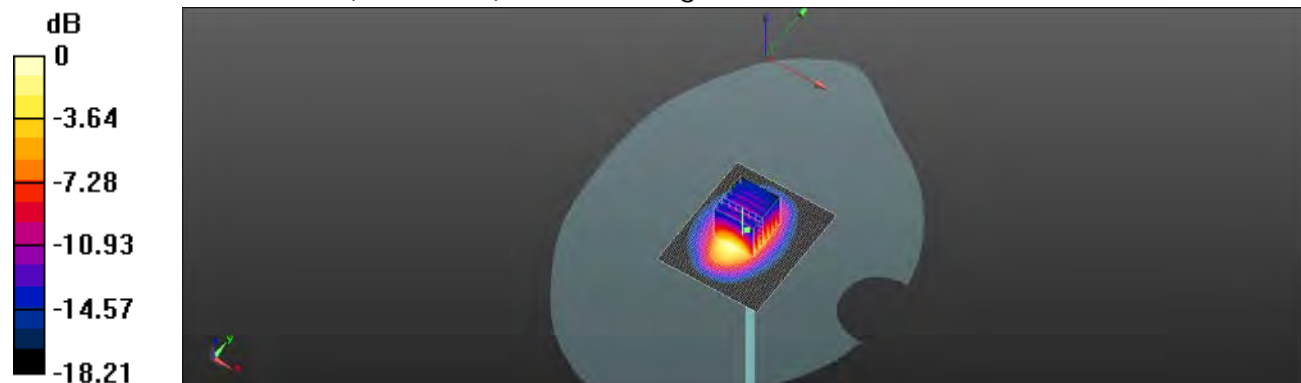
**(5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 95.928 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 18.1 W/kg

### SAR(1 g) = 9.81 W/kg; SAR(10 g) = 5.06 W/kg

Maximum value of SAR (measured) = 14.1 W/kg



0 dB = 14.1 W/kg = 11.49 dBW/kg

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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Date: 2013/7/18

### Dipole\_2450 MHz (Head)

Communication System: CW; Frequency: 2450 MHz

 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.813$  S/m;  $\epsilon_r = 39.129$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.15, 7.15, 7.15); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Head Tissue/Pin = 250mW, d=10mm/Area Scan

**(51x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 20.3 W/kg

### Dipole Calibration for Head Tissue/Pin = 250mW, d=10mm/Zoom Scan

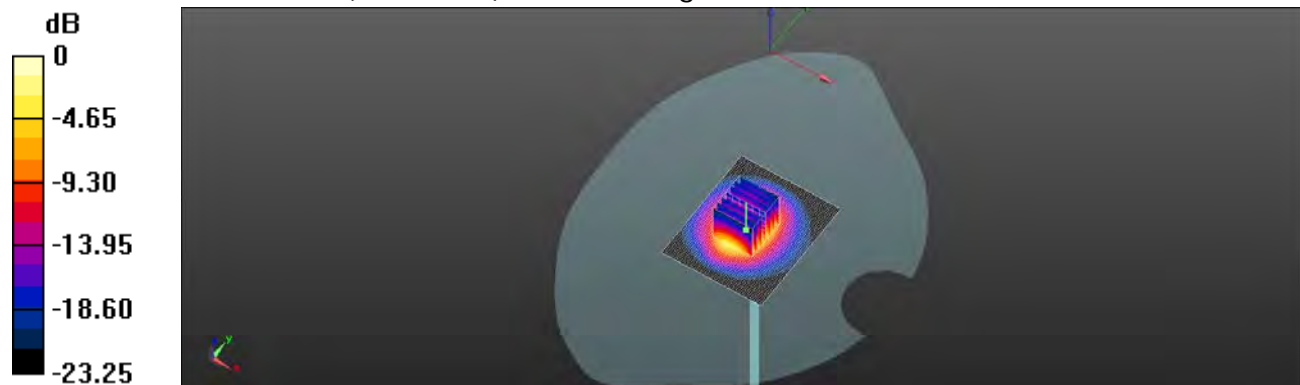
**(7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 106.1 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 27.1 W/kg

### SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.42 W/kg

Maximum value of SAR (measured) = 19.7 W/kg



0 dB = 19.7 W/kg = 12.94 dBW/kg

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Date: 2013/7/18

### Dipole\_2450 MHz (Body)

Communication System: CW; Frequency: 2450 MHz

 Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.939$  S/m;  $\epsilon_r = 53.768$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(7.12, 7.12, 7.12); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Area Scan

**(51x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 19.0 W/kg

### Dipole Calibration for Body Tissue/Pin=250mW, d=10mm/Zoom Scan

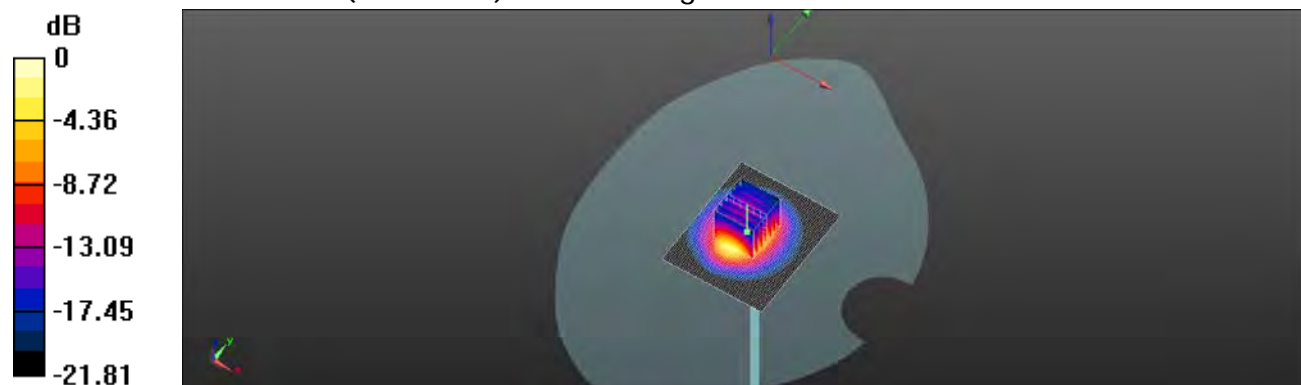
**(7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.176 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 25.6 W/kg

### SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.12 W/kg

Maximum value of SAR (measured) = 18.9 W/kg



0 dB = 18.9 W/kg = 12.76 dBW/kg

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Date: 2013/7/16

### Dipole\_5.2GHz (Head)

Communication System: CW; Frequency: 5200 MHz

 Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.574$  S/m;  $\epsilon_r = 36.213$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.45, 5.45, 5.45); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan

**(71x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.5 W/kg

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan

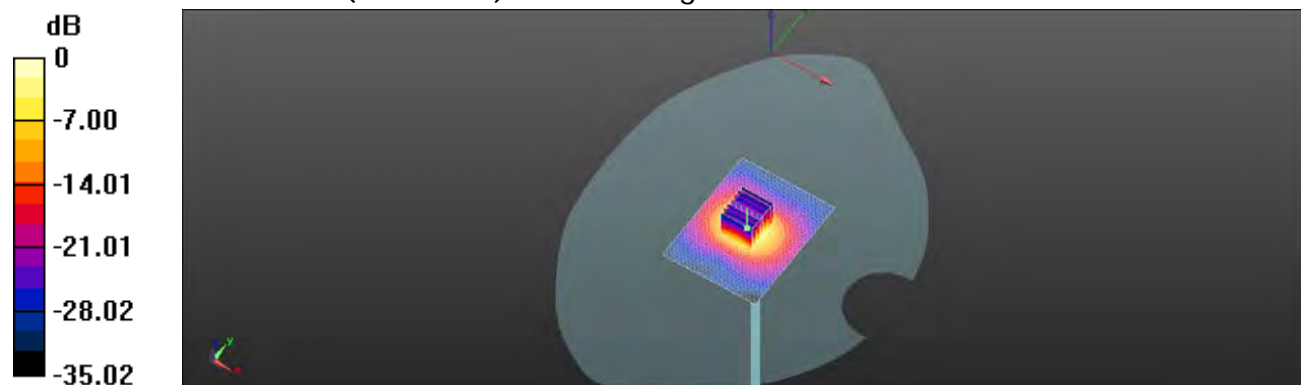
**(7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 60.823 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 26.5 W/kg

### SAR(1 g) = 7.89 W/kg; SAR(10 g) = 2.45 W/kg

Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg = 11.93 dBW/kg

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Date: 2013/7/16

### Dipole\_5.2GHz (Body)

Communication System: CW; Frequency: 5200 MHz

 Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 5.279 \text{ S/m}$ ;  $\epsilon_r = 49.469$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.79, 4.79, 4.79); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

**(71x91x1):** Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$ 

Maximum value of SAR (interpolated) = 17.5 W/kg

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan

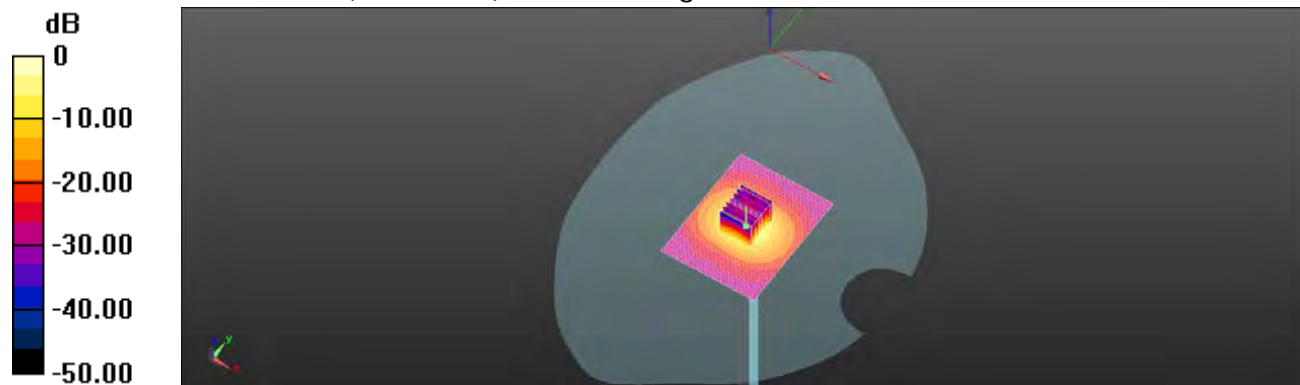
**(7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ 

Reference Value = 60.403 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 34.9 W/kg

### SAR(1 g) = 7.93 W/kg; SAR(10 g) = 2.21 W/kg

Maximum value of SAR (measured) = 16.7 W/kg


 $0 \text{ dB} = 16.7 \text{ W/kg} = 12.23 \text{ dBW/kg}$ 

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2013/7/18

### Dipole\_5.3GHz (Head)

Communication System: CW; Frequency: 5300 MHz

 Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.705$  S/m;  $\epsilon_r = 36.009$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(5.22, 5.22, 5.22); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan

**(71x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 15.9 W/kg

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan

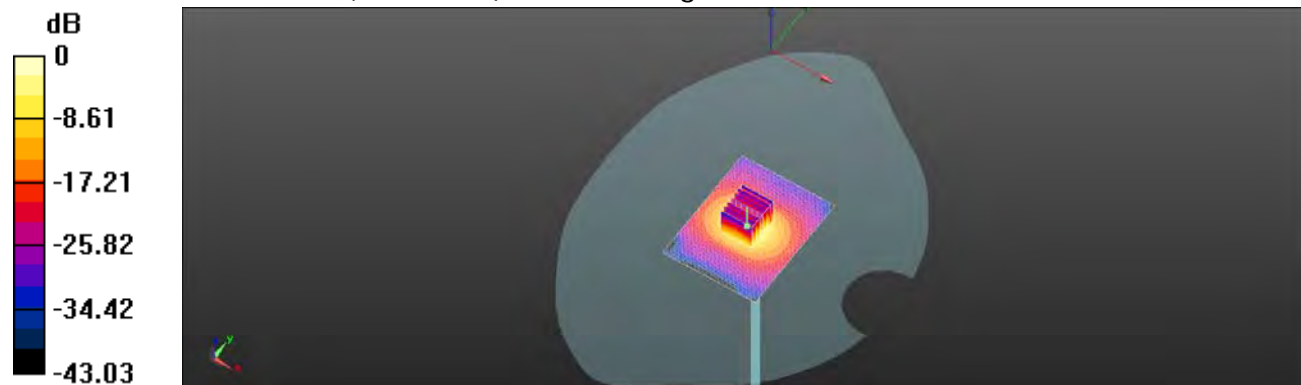
**(7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.496 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 28.1 W/kg

### SAR(1 g) = 8.14 W/kg; SAR(10 g) = 2.53 W/kg

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg

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Date: 2013/7/18

### Dipole\_5.3GHz (Body)

Communication System: CW; Frequency: 5300 MHz

Medium parameters used:  $f = 5300$  MHz;  $\sigma = 5.419$  S/m;  $\epsilon_r = 49.244$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.71, 4.71, 4.71); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

**(71x91x1)**: Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.8 W/kg

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan

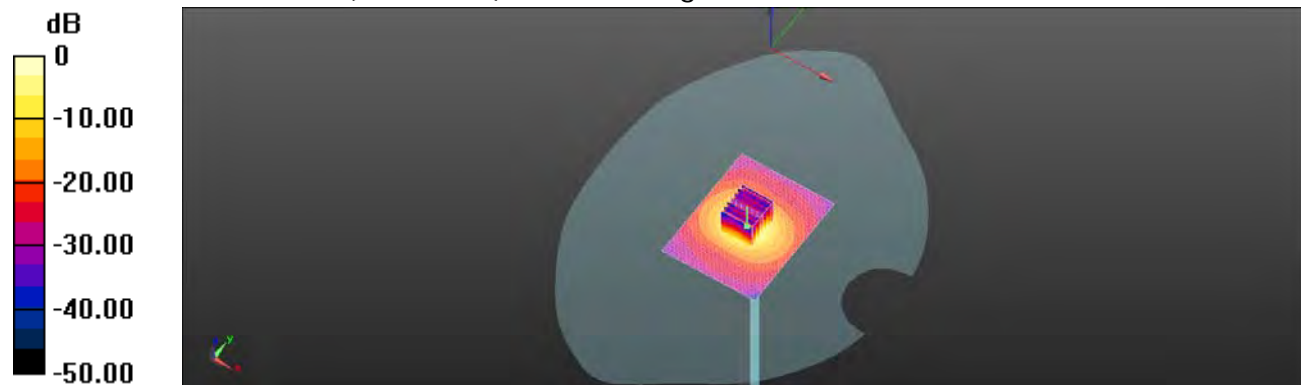
**(7x7x12)/Cube 0**: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.960 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 34.7 W/kg

### SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

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Date: 2013/7/20

### Dipole\_5.6GHz (Head)

Communication System: CW; Frequency: 5600 MHz

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.111$  S/m;  $\epsilon_r = 35.394$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.49, 4.49, 4.49); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan

**(71x91x1)**: Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan

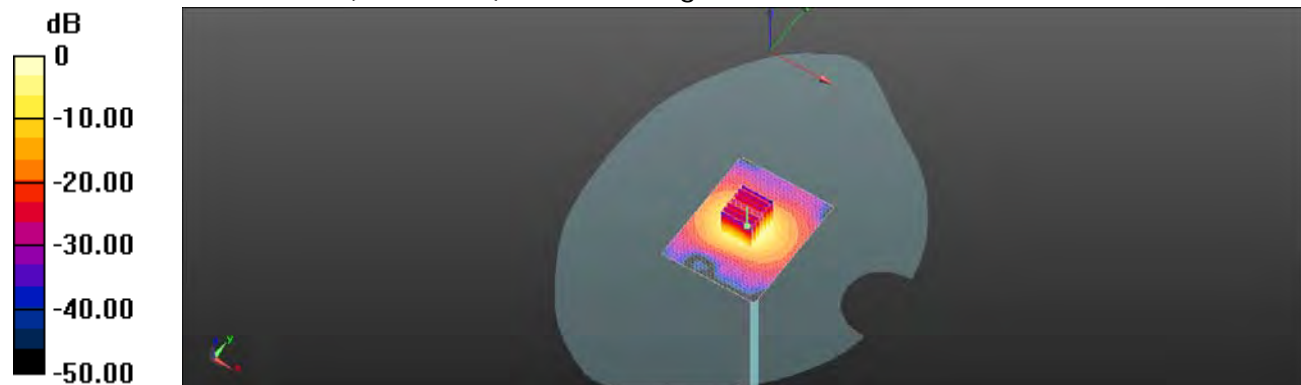
**(7x7x12)/Cube 0**: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 58.050 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 29.5 W/kg

### SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.56 W/kg

Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 12.25 dBW/kg

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Date: 2013/7/22

### Dipole\_5.6GHz (Body)

Communication System: CW; Frequency: 5600 MHz

 Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.859$  S/m;  $\epsilon_r = 48.631$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

**(71x91x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 18.4 W/kg

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan

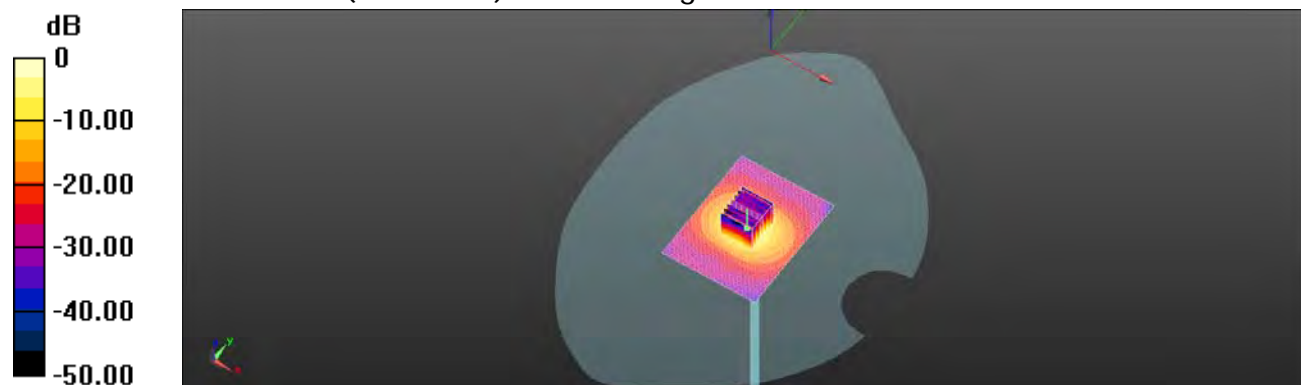
**(7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 57.424 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 42.6 W/kg

**SAR(1 g) = 8.3 W/kg; SAR(10 g) = 2.28 W/kg**

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg = 12.48 dBW/kg

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Date: 2013/7/22

### Dipole\_5.8GHz (Head)

Communication System: CW; Frequency: 5800 MHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 5.39 \text{ S/m}$ ;  $\epsilon_r = 34.985$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.88, 4.88, 4.88); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Area Scan

**(71x91x1)**: Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

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

### Dipole Calibration for Head Tissue/Pin=100mW, d=10mm/Zoom Scan

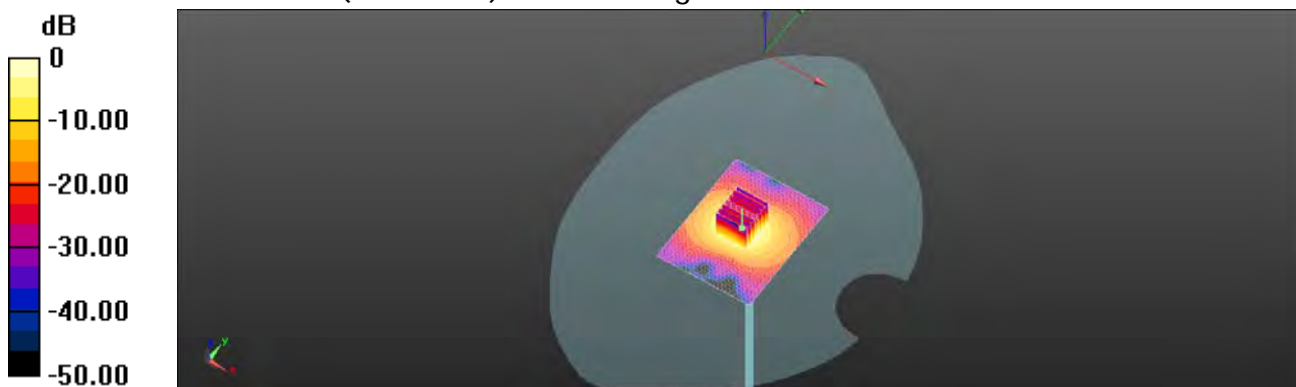
**(7x7x12)/Cube 0**: Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 59.118 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 27.9 W/kg

### SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.38 W/kg

Maximum value of SAR (measured) = 15.6 W/kg



0 dB = 15.6 W/kg = 11.93 dBW/kg

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Date: 2013/7/22

### Dipole\_5.8GHz (Body)

Communication System: CW; Frequency: 5800 MHz

Medium parameters used:  $f = 5800 \text{ MHz}$ ;  $\sigma = 6.164 \text{ S/m}$ ;  $\epsilon_r = 48.242$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

#### DASY Configuration:

- Probe: EX3DV4 - SN3848; ConvF(4.42, 4.42, 4.42); Calibrated: 2013/4/30;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1336; Calibrated: 2013/5/23
- Phantom: SAM with CRP; Type: SAM; Serial: 1712
- DASY52 52.8.6(1115); SEMCAD X 14.6.9(7117)

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Area Scan

**(71x91x1)**: Interpolated grid:  $dx=1.000 \text{ mm}$ ,  $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 16.8 W/kg

### Dipole Calibration for Body Tissue/Pin=100mW, d=10mm/Zoom Scan

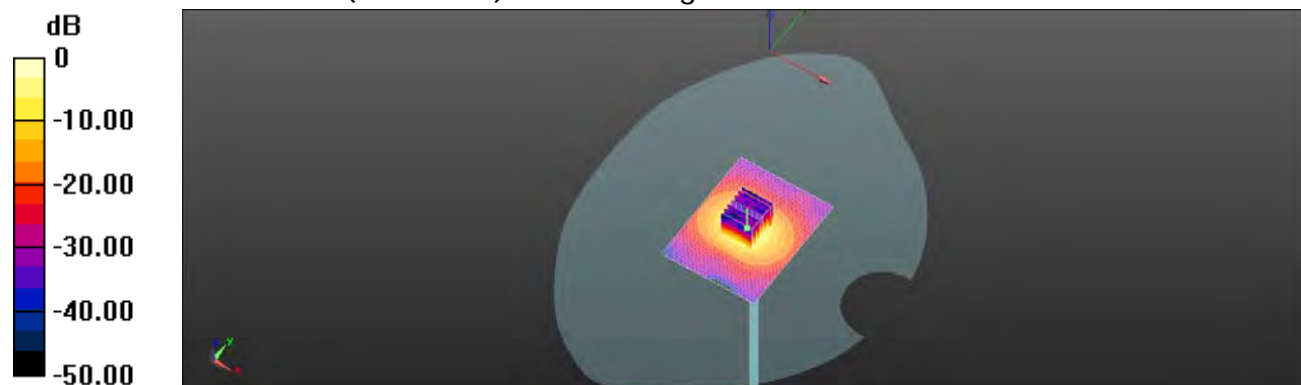
**(7x7x12)/Cube 0**: Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

Reference Value = 55.380 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 36.3 W/kg

### SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.09 W/kg

Maximum value of SAR (measured) = 16.4 W/kg



0 dB = 16.4 W/kg = 12.15 dBW/kg

- End of 1<sup>st</sup> part of report -

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