

jack

寄件者: <jim@AUDEN.com.TW>
收件者: <jdichoso@fcc.gov>
副本: <kchan@fcc.gov>; <oetech@fccsun07w.fcc.gov>; <jack@trclab.com.tw>
傳送日期: 2001年10月16日 PM 11:42
附加檔案: RF ambient in 900MHz Liquid_Cube 5x5x7_Scattering.pdf; RF ambient in 900MHz Liquid_Cube 5x5x7.pdf; RF ambient in 900MHz Liquid_Coarse scan.pdf; RF ambient in 2450MHz Liquid_Cube 5x5x7_Scattering.pdf; RF ambient in 2450MHz Liquid_Cube 5x5x7.pdf; RF ambient in 2450MHz Liquid_Coarse scan.pdf; RF ambient in 1800MHz Liquid_Cube 5x5x7_Scattering.pdf; RF ambient in 1800MHz Liquid_Cube 5x5x7.pdf; RF ambient in 1800MHz Liquid_Coarse scan.pdf
主旨: FW: noise floor ?

-----Original Message-----

From: 研發-呂莉萍
Sent: Tuesday, October 16, 2001 7:17 PM
To: 研發-吳俊吉
Subject: FW: noise floor ?

請將此MAIL轉寄給所有下面的人

Dear Joe and Mr. Chen

Hereby our prove for our RF ambient. Yes, it's possible to be under 0.01
Please see attach.

-----Original Message-----

From: Kwok Chan [mailto:kchan@fcc.gov]
Sent: Monday, October 15, 2001 9:59 PM
To: SOPHIA@AUDEN.COM.TW; Joe Dichoso
Cc: Andrew Leimer; Kwok Chan; Tim Harrington
Subject: Re: noise floor ?

Joe:

For frequency hopper at 24 dBm, it is likely that they did not disable the hopper and lock the test frequency during SAR for getting such low SAR. Please send them an FYI to check issues so that they know what to do.

The noise floor varies with both the equipment and the RF (ambient) environment. Inside a shielded room, it would not be that difficult to get the noise floor down to lower than 0.1 W/kg. The field probe conversion factors (uV/W/kg), which varies with frequency (probe and tissue material) more or less dictate the noise floor.

Kwok Chan

>>> Joe Dichoso 10/15/01 09:51AM >>>

Hello Sophia,

It is my understanding that the SAR equipment cannot measure anything less than about .1 W/kg. Therefore, if you report data that you measured .01 W/kg on the device, it is suspect and an explanation/correction is required since this is far below the equipment sensitivity. In other words, if you measured no phone at all, the equipment would read the noise floor

2001/10/24

value of about .1 W/kg. Your data is below this value.

>>> <SOPHIA@AUDEN.COM.TW> 10/15/01 03:44AM >>>

Dear Joe

We're the SAR testing Lab. for this case.

You wrote "> * The SAR values listed were about .01 W/kg. The noise floor is about .1

W/kg. Something is wrong with the measurement."

We'd like to know where you get the Noise floor ?

Looking forward to your quickly reply.

Auden Technology Corp.

Tel:886 (0)3 3631901 Fax:886 (0)3 3635002

Cellular:886 (0)932270408

No. 19 Lane 772 Ho-Ping Rd., Pa-Te city Taoyuan Hsien Taiwan R.O.C.

772 19

Sophia Lyu

----- Original Message -----

From: OET <oetech@fccsun07w.fcc.gov <<mailto:oetech@fccsun07w.fcc.gov>>>

To: <jack@trclab.com.tw <<mailto:jack@trclab.com.tw>>>

Sent: Friday, September 28, 2001 11:25 PM

Subject:

> To: JACK TSAI, TRAINING RESEARCH CO., LTD.

> From: Joe Dichoso

> jdichoso@fcc.gov <<mailto:jdichoso@fcc.gov>>

> FCC Application Processing Branch

>

> Re: FCC ID O2BSDC6211

> Applicant: Solomon Wireless Tech. Corp.

> Correspondence Reference Number: 20777

> 731 Confirmation Number: EA101948

>

>

> 1) Only the conducted output of the handset was submitted. Submit the conducted output power of the base unit.

>

> 2) The SAR test for the handset should be redone due to the following problems with the submitted test.

> * The SAR test shows the conducted output of the handset at 24 dBm. The EMC report indicates 20.191 dBm. Please explain/correct and provide any appropriate data.

> * Provide clearer and larger SAR test setup photo's.

2001/10/24

> * The dipole validation plot should be symmetrical and at the frequency of the device. The dipole validation plot was unsymmetrical and was at 1800 MHz while the device is at 2450 MHz. Also, the tissue parameters should match the rest of the report.

> * The SAR values listed were about .01 W/kg. The noise floor is about .1 W/kg. Something is wrong with the measurement.

> * The conductivity was performed at 1.35 while supplement C requires 1.8.

>

> 3) The transmitter cannot coordinate its hopping sequence with the hopping sequence of other transmitters, or vice versa, for the purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters. Provide a description on how the device complies with this rule.

>

> 4) Section 15.247(a)1 indicates that the system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. What is the receiver input bandwidth?

>

>

>

>

> The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 days of the original e-mail date may result in application dismissal pursuant to Section 2.917 (c) and forfeiture of the filing fee pursuant to section 1.1108.

>

> DO NOT reply to this e-mail by using the Reply button. In order for your response to be processed expeditiously, you must upload your response via the Internet at www.fcc.gov <<http://www.fcc.gov>>, Electronic Filing, OET Equipment Authorization

Electronic Filing. If the response is submitted through Add Attachments, in order to expedite processing, a message which informs the processing staff that a new exhibit has been submitted must also be submitted via Submit Correspondence. Also, please note that partial responses increase processing time and should not be submitted.

>

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772 19

Sophia Lyu

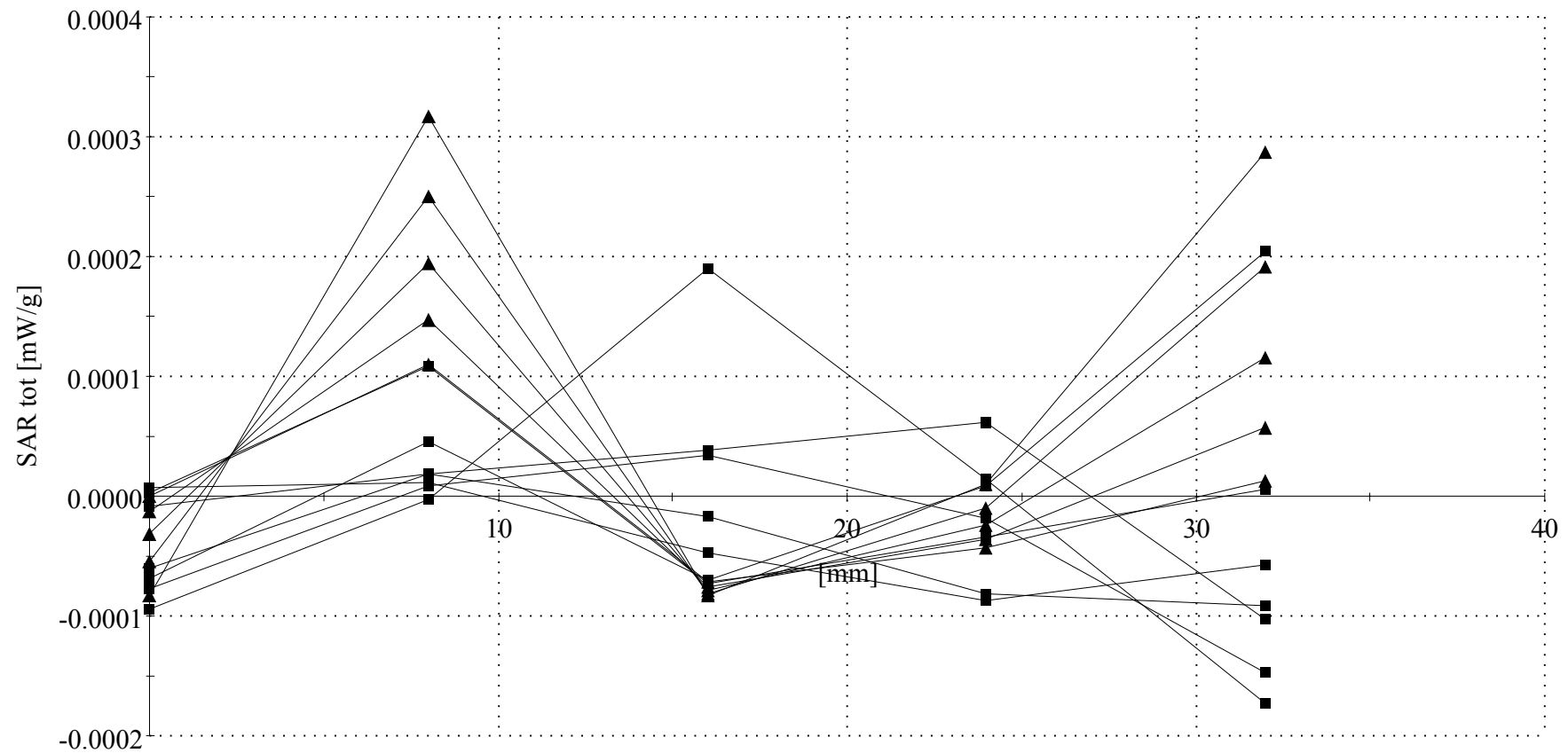
RF ambient 900MHz Liquid

No Device

SAM; Left Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 900 MHz #2: $s = 0.98$ mho/m $\epsilon_r = 42.3$ $\rho = 1.00$ g/cm³

SAR (1g): 0.0001 mW/g, SAR (10g): 0.0000 mW/g * Max outside;



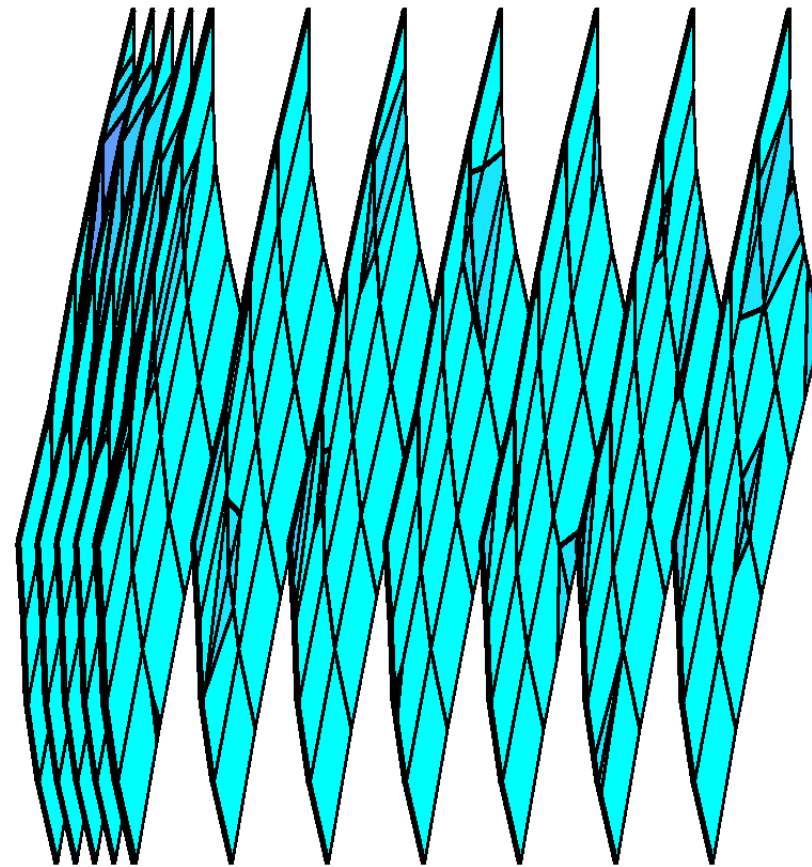
RF ambient 900MHz Liquid

No Device

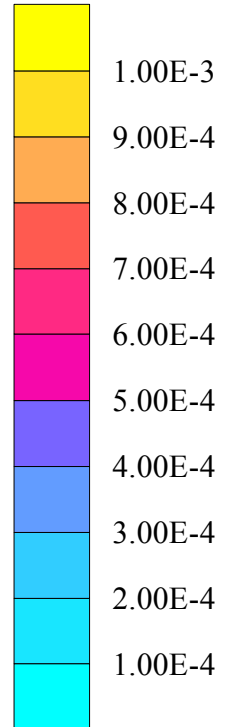
SAM; Left Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 900 MHz #2: $s = 0.98$ mho/m $\epsilon_r = 42.3$ $\rho = 1.00$ g/cm³

SAR (1g): 0.0001 mW/g, SAR (10g): 0.0000 mW/g * Max outside;



SAR_{Tot} [mW/g]



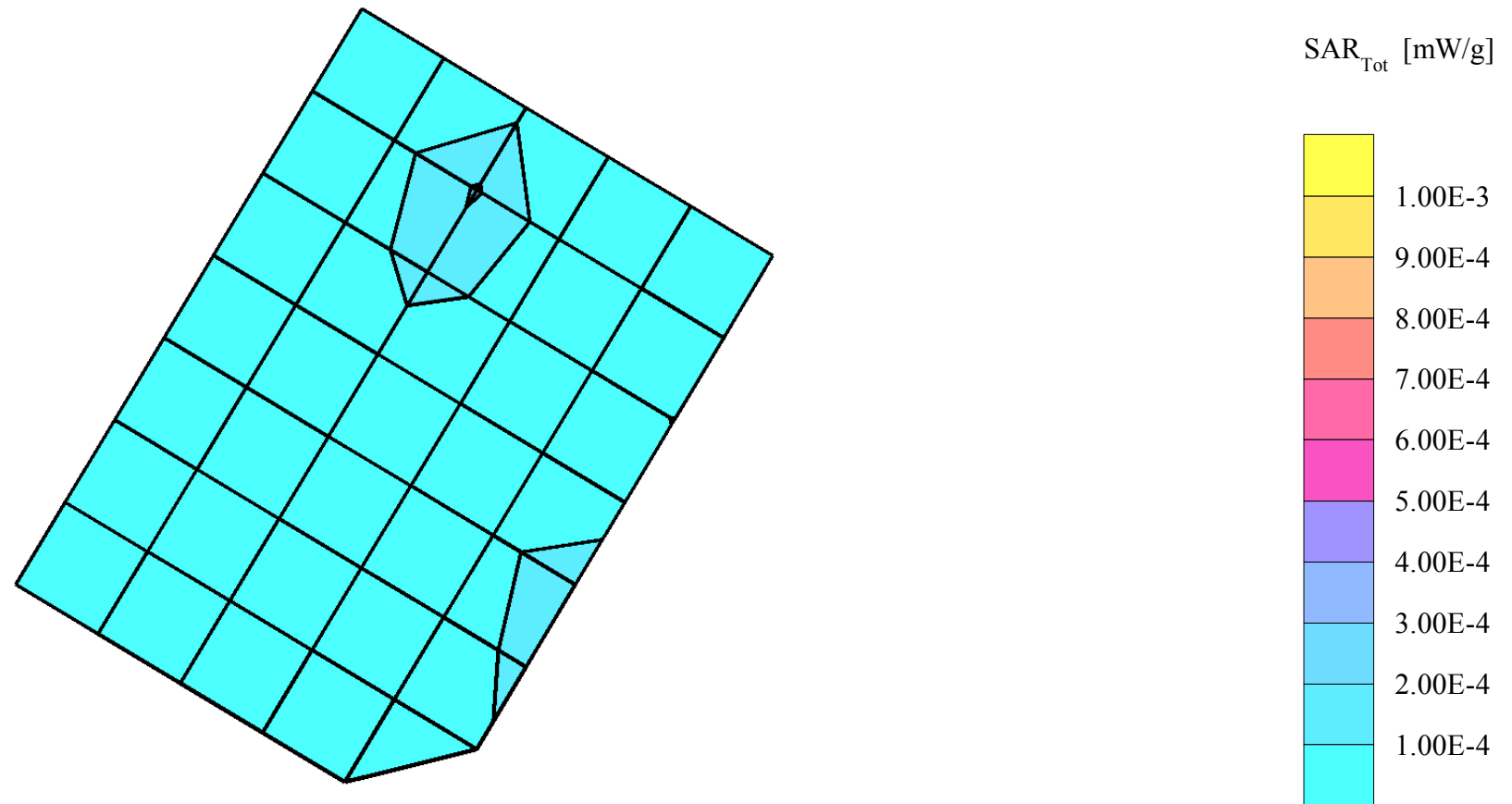
RF ambient 900MHz Liquid

No Device

SAM; Left Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 900 MHz #2: $s = 0.98$ mho/m $\epsilon_r = 42.3$ $\rho = 1.00$ g/cm³

SAR (1g): 0.0001 mW/g, SAR (10g): 0.0000 mW/g * Max outside; Powerdrift: -5.43 dB



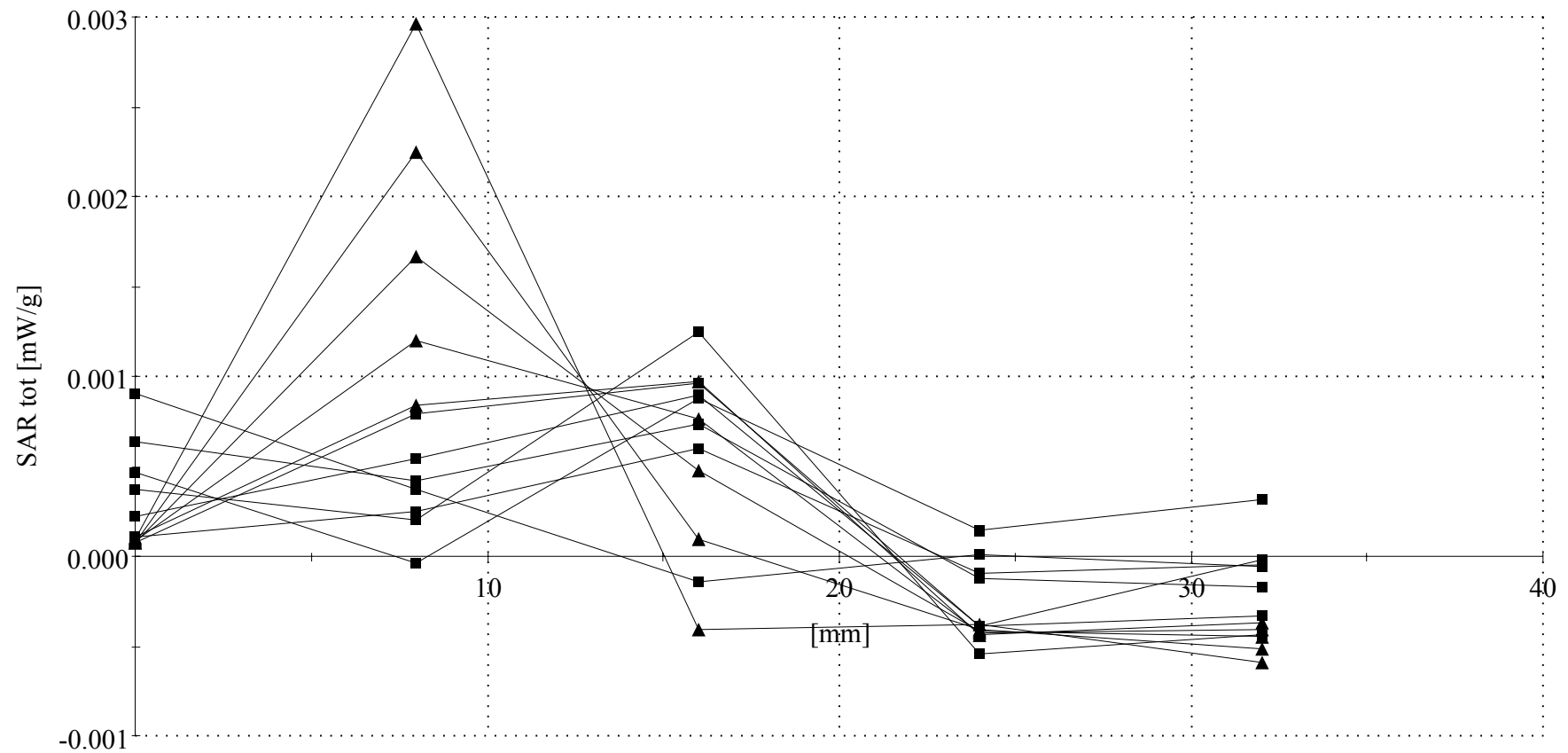
RF ambient 1800MHz Liquid

No Device

SAM; Righ Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 1800 MHz #1: $s = 1.32 \text{ mho/m}$ $\epsilon_r = 41.0$ $\rho = 1.00 \text{ g/cm}^3$

SAR (1g): 0.0010 mW/g *, SAR (10g): 0.0004 mW/g * Max outside;



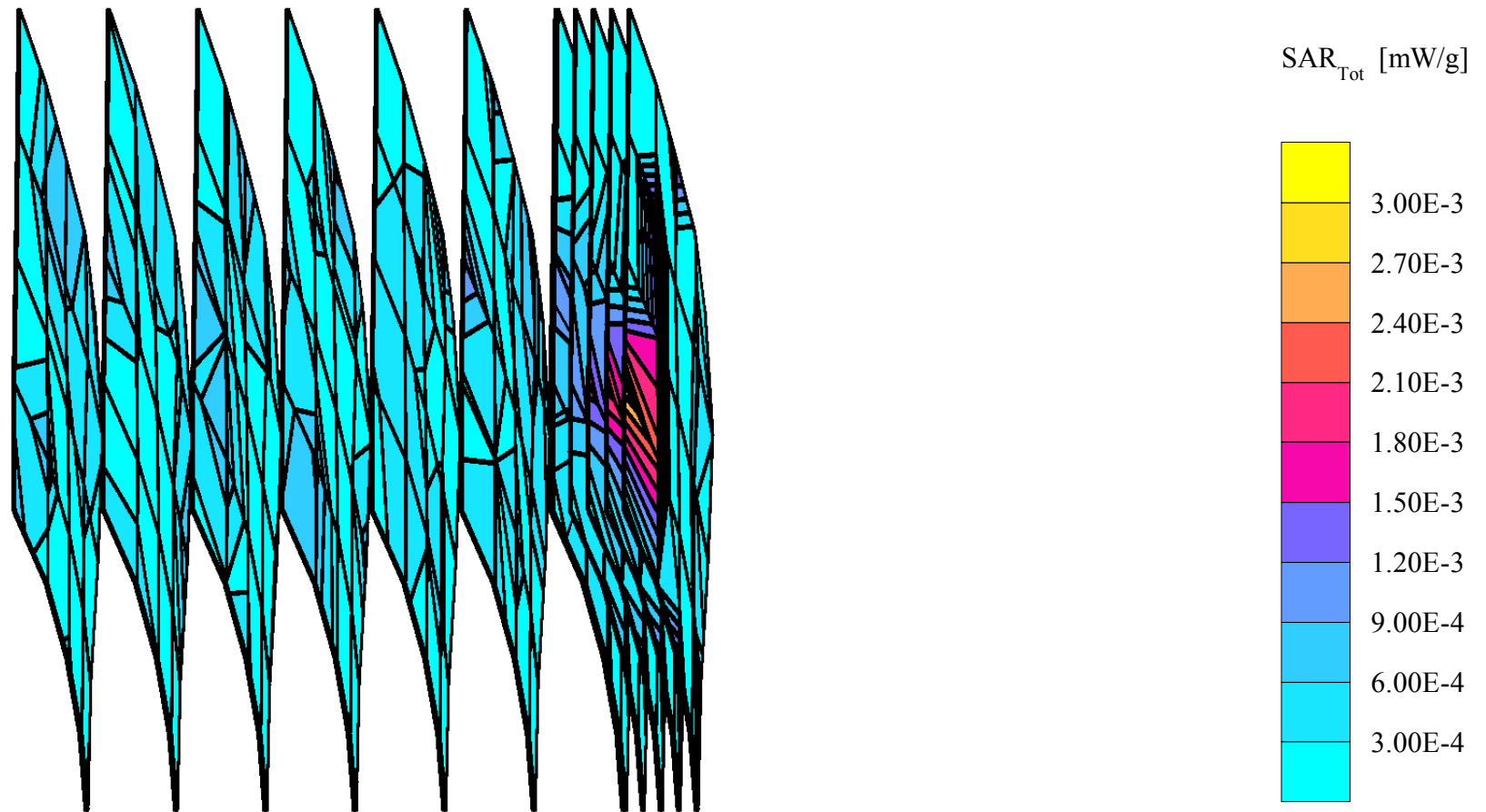
RF ambient 1800MHz Liquid

No Device

SAM; Righ Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 1800 MHz #1: $s = 1.32$ mho/m $\epsilon_r = 41.0$ $\rho = 1.00$ g/cm³

SAR (1g): 0.0010 mW/g *, SAR (10g): 0.0004 mW/g * Max outside;



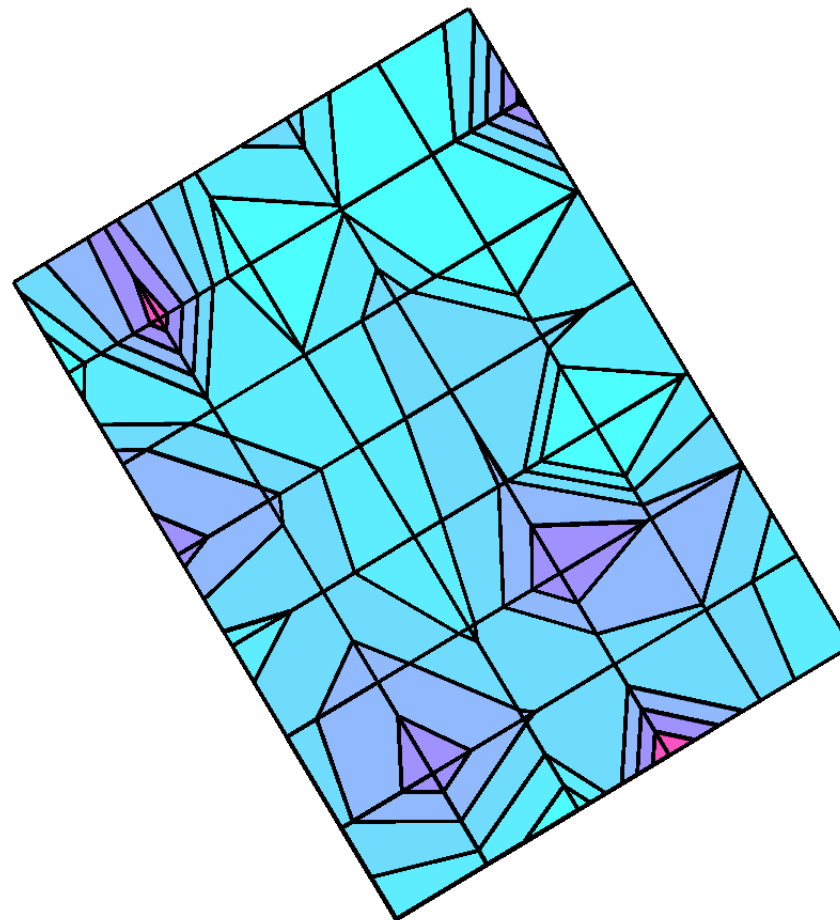
RF ambient 1800MHz Liquid

No Device

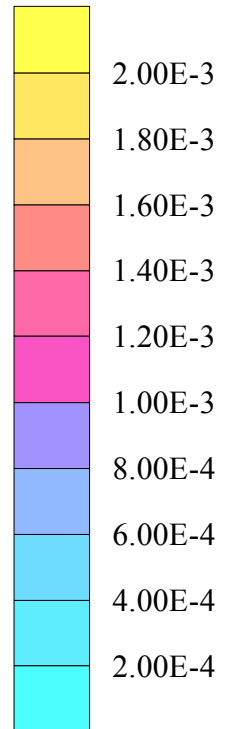
SAM; Righ Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 1800 MHz #1: $s = 1.32 \text{ mho/m}$ $\epsilon_r = 41.0$ $\rho = 1.00 \text{ g/cm}^3$

SAR (1g): 0.0010 mW/g *, SAR (10g): 0.0004 mW/g * Max outside; Powerdrift: Reference value below zero



SAR_{Tot} [mW/g]



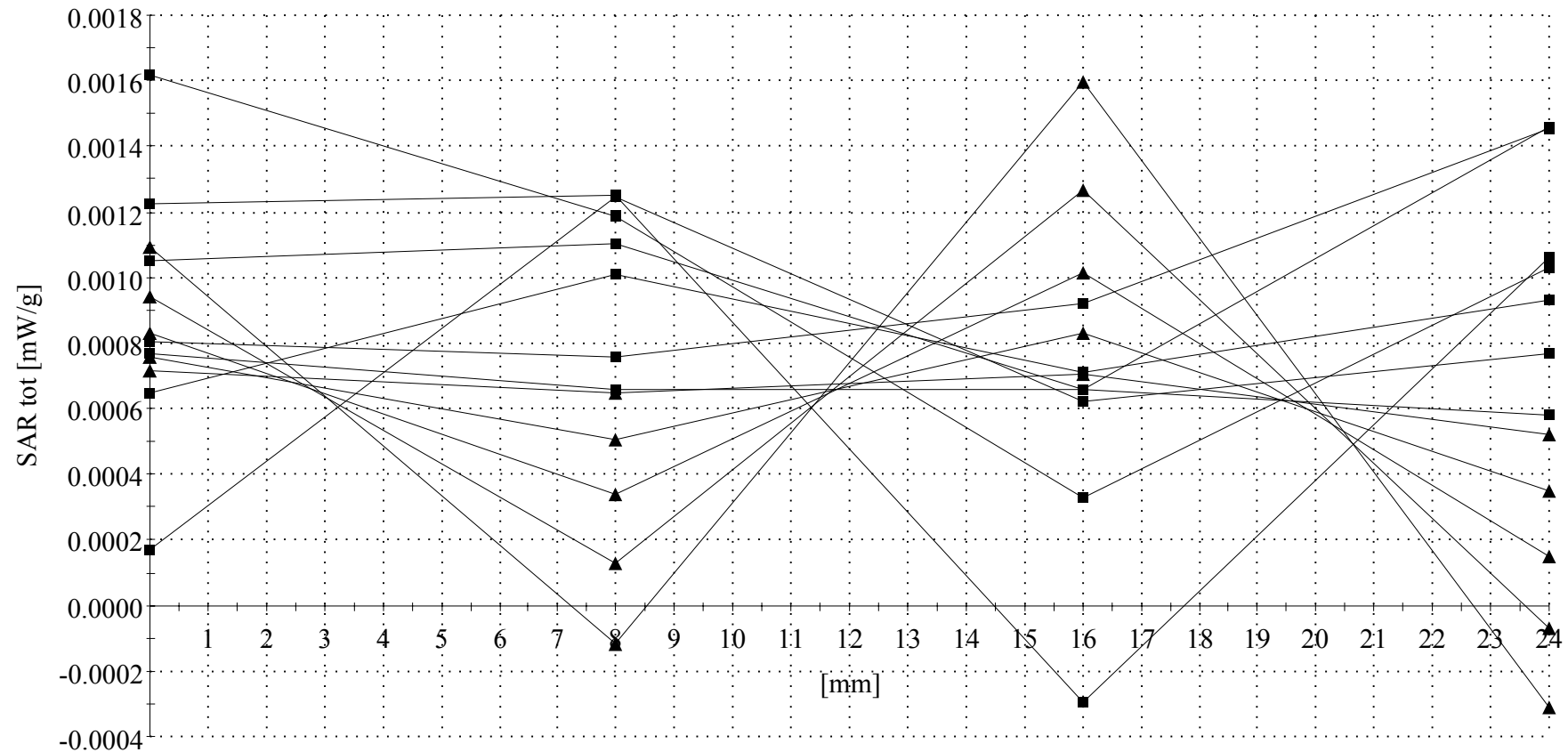
RF ambient 2450MHz Liquid

No Device

SAM; Righ Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 2450MHz #1: $s = 1.97 \text{ mho/m}$ $\epsilon_r = 39.9$ $\rho = 1.00 \text{ g/cm}^3$

SAR (1g): 0.0016 mW/g, SAR (10g): 0.0004 mW/g * Max outside;



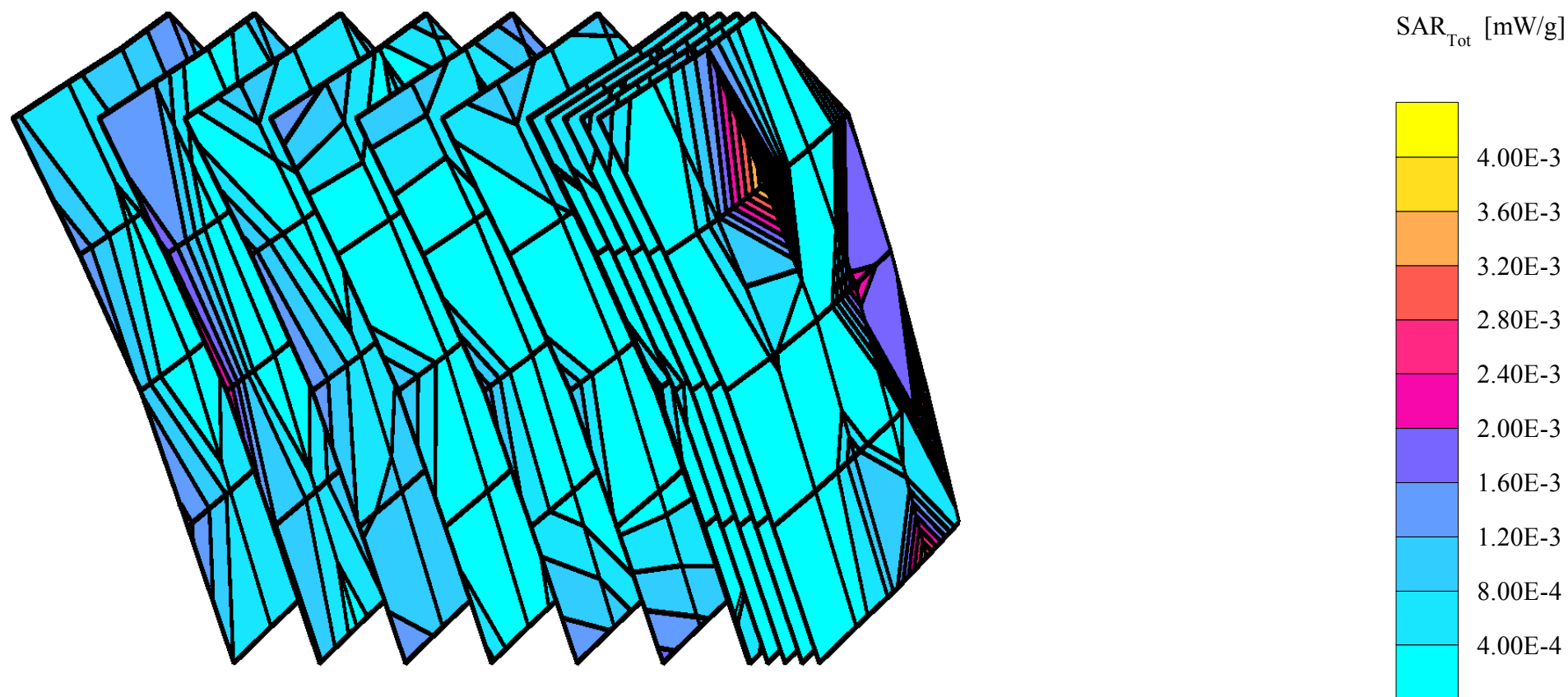
RF ambient 2450MHz Liquid

No Device

SAM; Righ Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 2450MHz #1: $s = 1.97$ mho/m $\epsilon_r = 39.9$ $\rho = 1.00$ g/cm³

SAR (1g): 0.0016 mW/g, SAR (10g): 0.0004 mW/g * Max outside;



RF ambient 2450MHz Liquid

No Device

SAM; Righ Hand Section; ET3DV6 - SN1530

Crest factor: 8.0; Tissue Parameters: Head 2450MHz #1: $s = 1.97$ mho/m $\epsilon_r = 39.9$ $\rho = 1.00$ g/cm³

SAR (1g): 0.0016 mW/g, SAR (10g): 0.0004 mW/g * Max outside; Powerdrift: Reference value below zero

