

Ref: CR-280-1-08-SATB-A

Page: 1/26 | Issue: A | Date: 2011/09/24

## **COMOSAR E-FIELD PROBE CALIBRATION REPORT**

Prepared By: LUC Jérôme, SATIMO

Project Description: SAR TEST BENCH

Prepared For (End User): Shenzhen Morlab Communication Technology

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#### Ref: CR-280-1-08-SATB-A

Page: 2/26 | Issue: A | Date: 2011/09/24

#### COMOSAR SEPT ISOTROPIC E-FIELD PROBE CALIBRATION REPORT

**DATE**: 12/02/2009

REFERENCE: SN 37/08 EP80

**OBJECT: COMOSAR SEPT ISOTROPIC E-FIELD PROBE** 

**MANUFACTURER: SATIMO** 

**SERIAL NUMBER**: SN 37/08 EP80

**CUSTOMER**: Shenzhen Morlab Communication Technology

24.201

**CONTRACT**: PF2130108b\_SAR\_Morlab

DATE OF CALIBRATION: 24/09/2011

#### **WARRANTY:**

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Date

SAR TEAM MANAGER

SATIMO Bretagne Technopôle Brest Iroise Zone du Vernis 225 rue Pierre Rivoalon 29200 BREST



**Ref: CR-280-1-08-SATB-A** 

#### PRODUCT DESCRIPTION



Frequency Range	100 MHz - 30 GHz
Probe length	330 mm
Length of one dipole	4.5 mm
Maximum external diameter	8 mm
Probe extremity diameter	6.5 mm
Distance between dipoles/probe extremity	< 2.7 mm
Resistance of the three dipole (at the connector)	Dipole 1: R1=1.4382 MΩ Dipole 2: R2=1.4894 MΩ Dipole 3: R3=1.4683 MΩ
Connector (HIROSE series SR30)	6 wire male (Hirose SR30series)

The probe could be checked by measuring the resistance of the three dipoles.

#### **CALIBRATION TEST EQUIPMENT**

TYPE	IDENTIFICATION
Calibration bench	CALISAR
Multimeter	Keithley 2000

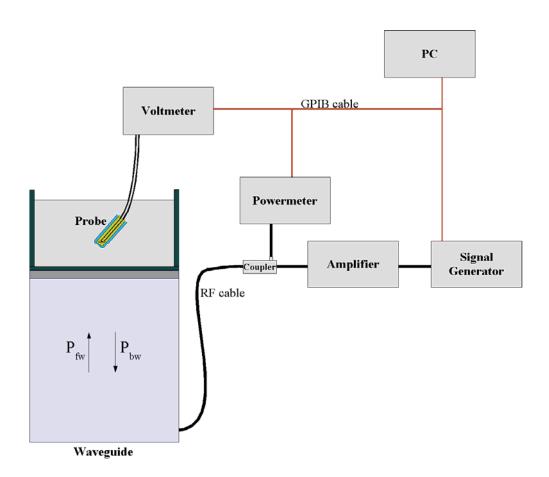


#### Ref: CR-280-1-08-SATB-A

Page: 4/26 | Issue: A | Date: 2011/09/24

#### MEASUREMENT PROCEDURE

Probe calibration is realized, in compliance with CENELEC EN 50361 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 50361 annexe technique using reference guide at the five frequencies.



$$SAR = \frac{4(P_{fw} - P_{bw})}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$$

Where:

P<sub>fw</sub> = Forward Power P<sub>bw</sub> = Backward Power a and b = Waveguide dimensions

□ = Skin depth

Keithley configuration:

Rate = Medium; Filter =ON; RDGS=10; FILTER TYPE =MOVING AVERAGE; RANGE AUTO

After each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.



**Ref: CR-280-1-08-SATB-A** 

Page: 5/26 Issue: A Date: 2011/09/24

#### **PROBE UNCERTAINTIES**

# Calibration report of dosimetric SATIMO probe

Uncertainty on calibration system							
ERROR SOURCES Uncertainty Probability Divisor ci Standa Uncertaint							
Incident or forward power	3,00%	Rectangular	$\sqrt{3}$	1	1,732%		
Reflected power	3,00%	Rectangular	$\sqrt{3}$	1	1,732%		
Liquid conductivity	5,00%	Rectangular	$\sqrt{3}$	1	2,887%		
Liquid permittivity	4,00%	Rectangular	$\sqrt{3}$	1	2,309%		
Field homogeneity	3,00%	Rectangular	$\sqrt{3}$	1	1,732%		
Field probe positioning	5,00%	Rectangular	$\sqrt{3}$	1	2,887%		
Field probe linearity	3,00%	Rectangular	$\sqrt{3}$	1	1,732%		
Combined standard uncertainty					4,761%		
Expanded uncertainty (confidence interval of 95%)					9,331%		



Ref: CR-280-1-08-SATB-A

Page: 6/26 Issue: A Date: 2011/09/24

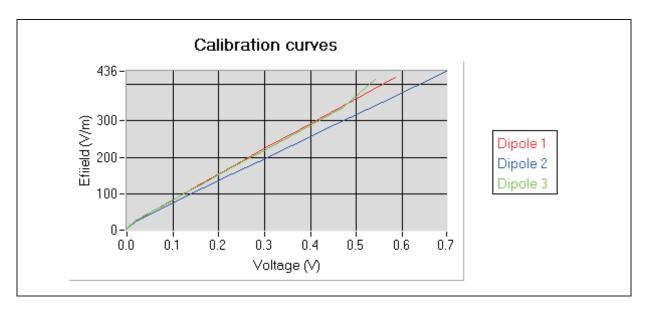
## 1. Calibration at 450.00 MHz

#### A. Calibration parameters.

Label	GSM450
Epsilon	43.33
Sigma	0.84 S/m
Temperature	21℃
Antenna gain	2.03 dB
Antenna S11	-10.50 dB
Low limit detection (CW)	0.72 V/m (0.47 mW/kg)

Calibration curves ei=f(V) (i=1,2,3) allow to obtain E-field value using the formula:

$$E = \sqrt{E_1^2 * E_2^2 * E_3^2}$$





#### **Ref: CR-280-1-08-SATB-A**

Page: 7/26 Issue: A Date: 2011/09/24

v1	e1	v2	e2	v3	e3
0.584004	419.557857	-0.696059	435.622023	0.541191	412.830715
0.467833	339.207465	-0.556278	351.381991	0.469757	336.297240
0.376994	276.348283	-0.452232	288.647980	0.378826	274.224190
0.302778	224.954643	-0.359005	232.397390	0.305842	224.365698
0.241038	182.154071	-0.286978	188.889931	0.246562	183.825274
0.192549	148.484090	-0.230386	154.650994	0.195712	148.993075
0.154033	121.674762	-0.185412	127.378480	0.157543	122.783107
0.123397	100.276479	-0.147311	104.193802	0.125866	100.956090
0.099878	83.770361	-0.118637	86.660489	0.101471	84.063863
0.081165	70.553219	-0.095250	72.263937	0.082289	70.694342
0.065166	59.152028	-0.076788	60.795323	0.066427	59.538957
0.051916	49.592416	-0.061280	51.041514	0.053353	50.232492
0.041968	42.297602	-0.048746	43.022565	0.042906	42.675214
0.033724	36.126757	-0.039149	36.748110	0.034686	36.605243
0.021855	26.962568	-0.024798	27.024723	0.022272	27.149463
0.018405	23.975145	-0.020856	24.085809	0.018755	24.141334
0.015467	21.515985	-0.017534	21.515985	0.015767	21.615299
0.013018	19.309065	-0.014750	19.398191	0.013276	19.487731
0.010938	17.408496	-0.012392	17.529166	0.011157	17.569575
0.009022	15.586953	-0.010228	15.658899	0.009215	15.676938
0.007353	13.956010	-0.008328	13.988181	0.007484	14.020428
0.005989	12.466979	-0.006801	12.495719	0.006111	12.567858
0.004890	11.214019	-0.005573	11.265779	0.005003	11.330818
0.004019	10.133541	-0.004570	10.121882	0.004099	10.168601
0.003279	9.094132	-0.003739	9.157170	0.003352	9.125596
0.002660	8.095827	-0.003041	8.293946	0.002769	8.265350
0.002126	7.324219	-0.002453	7.366500	0.002188	7.358024
0.001685	6.565400	-0.001947	6.580536	0.001724	6.542765
0.001300	5.784440	-0.001511	5.718225	0.001334	5.757862
0.001123	5.245191	-0.001307	5.269400	0.001174	5.275471
0.000891	4.701768	-0.001057	4.723470	0.000924	4.728912
0.000704	4.209798	-0.000850	4.226839	0.000736	4.243862
0.000574	3.790376	-0.000689	3.791428	0.000603	3.830551
0.000457	3.396200	-0.000570	3.434303	0.000483	3.421852
0.000365	3.050686	-0.000463	3.078014	0.000389	3.079630
0.000292	2.745766	-0.000369	2.726866	0.000311	2.759206
0.000236	2.486639	-0.000312	2.489933	0.000246	2.460514
0.000169	2.135693	-0.000243	2.168759	0.000192	2.181488
0.000128	1.889049	-0.000187	1.867932	0.000150	1.936874
0.000095	1.664186	-0.000151	1.645758	0.000107	1.649268
0.000060	1.386399	-0.000126	1.471869	0.000084	1.472551
0.000058	1.368824	-0.000108	1.332695	0.000065	1.308691
0.000037	1.168432	-0.000085	1.130188	0.000050	1.163135
0.000024	1.024929	-0.000073	1.008517	0.000039	1.043570
0.000020	0.976541	-0.000060	0.857441	0.000027	0.895101
0.000008	0.814304	-0.000053	0.763814	0.000017	0.749230
0.000004	0.752492	-0.000046	0.659669	0.000015	0.716502
-0.000002	0.651238	-0.000041	0.565593	0.000013	0.682204
-0.000007	0.553830	-0.000037	0.480995	0.000001	0.421392
-0.000010	0.477516	-0.000034	0.413108		
	U.T//JU	-0.00003-			



#### Ref: CR-280-1-08-SATB-A

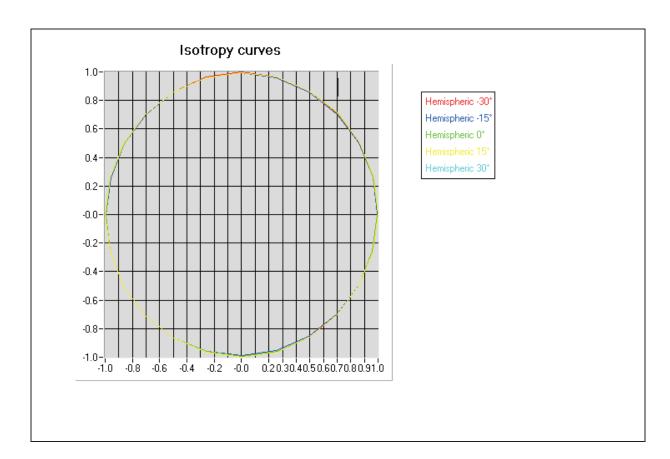
Page: 8/26 Issue: A Date: 2011/09/24

Sensitivity in liquid:

2 <b>4</b> 115141 (14) 111 1	190101				
Liquid	3	σ	CF dipole 1	CF dipole 2	CF dipole 3
_			(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>
			$(mV)^{-1}$	$(mV)^{-1}$	$(mV)^{-1}$
Head	43.50	0.87	24.451	22.393	24.045
Body	58.00	0.83	24.691	22.414	24.201

## B. Isotropy.

- Axial isotropy: 0.03 dB- Hemispherical isotropy: 0.03 dB



## C. Linearity.

- Linearity:

0.05 dB



Ref: CR-280-1-08-SATB-A

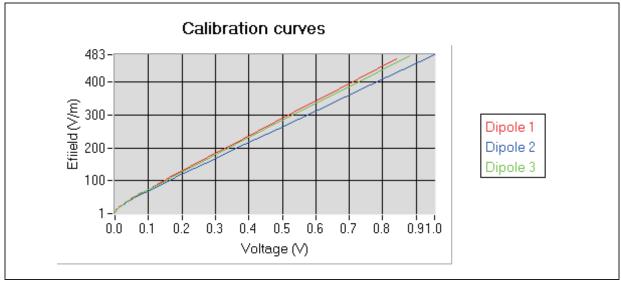
## 2. Calibration at 835.00 MHz

## A. Calibration parameters.

Label	850
Epsilon	43.40
Sigma	0.89 S/m
Temperature	21℃
Cable loss	0.11 dB
Coupler loss	20.50 dB
Waveguide S11	-20.90 dB
Low limit detection	0.92 V/m (0.75 mW/kg)

Calibration curves ei=f(V) (i=1,2,3) allow to obtain E-field value using the formula:

$$E = \sqrt{{E_1}^2 * {E_2}^2 * {E_3}^2}$$





#### **Ref: CR-280-1-08-SATB-A**

Page: 10/26 | Issue: A | Date: 2011/09/24

v1	e1	v2	e2	v3	e3
0.839252	469.730948	-0.954847	482.718447	0.879546	479.683033
0.668119	379.166614	-0.762014	390.347498	0.698229	385.999214
0.533716	307.961972	-0.606148	315.607901	0.558143	313.544664
0.426955	251.311080	-0.486812	258.298379	0.448077	256.531927
0.342037	206.144479	-0.387670	210.582203	0.360609	211.126634
0.276846	171.355772	-0.308360	172.284375	0.286505	172.535979
0.180629	118.178721	-0.197173	118.042741	0.185251	118.178721
0.163497	109.153907	-0.178754	109.153907	0.167665	109.153907
0.145275	99.549546	-0.159179	99.549546	0.149045	99.549546
0.127277	89.957894	-0.139807	89.957894	0.130662	89.854386
0.110307	80.730805	-0.121434	80.730805	0.113306	80.637914
0.094797	72.200346	-0.104643	72.200346	0.097445	72.117272
0.081814	64.944037	-0.090598	64.869310	0.084174	64.869310
0.069641	57.948111	-0.077338	57.881434	0.071699	57.881434
0.058878	51.586883	-0.065586	51.586883	0.060658	51.527524
0.049536	45.976857	-0.055336	45.976857	0.051073	45.923955
0.041505	40.976917	-0.046508	40.976917	0.042828	40.929767
0.034714	36.604905	-0.039026	36.562786	0.035889	36.562786
0.028810	32.586617	-0.033020	32.586617	0.029795	32.586617
0.023825	29.076310	-0.032402	29.076310	0.024666	29.076310
0.023623	25.914289	-0.020929	25.914289	0.020277	25.914289
0.015950	23.069558	-0.022104	23.043013	0.020277	23.043013
0.013090	20.655670	-0.016115	20.631903		
				0.013571	20.631903
0.010616	18.409385	-0.012100	18.388202	0.011028 0.008915	18.388202
0.008582	16.407381	-0.009802	16.388503		16.388503
0.006917	14.623094	-0.007914	14.623094	0.007191	14.606268
0.005549	13.017850	-0.006351	13.017850	0.005768	13.002872
0.004461	11.628917	-0.005124	11.628917	0.004648	11.615537
0.003564	10.352358	-0.004108	10.352358	0.003719	10.352358
0.002836	9.226549	-0.003286	9.226549	0.002977	9.226549
0.002259	8.223170	-0.002617	8.213708	0.002375	8.213708
0.001802	7.320476	-0.002093	7.320476	0.001895	7.320476
0.001429	6.532638	-0.001685	6.554495	0.001523	6.554495
0.001138	5.840422	-0.001336	5.834979	0.001210	5.834979
0.000899	5.203480	-0.001071	5.206420	0.000963	5.193805
0.000715	4.654101	-0.000853	4.640227	0.000762	4.623419
0.000576	4.191605	-0.000682	4.135607	0.000613	4.150307
0.000451	3.726997	-0.000549	3.707142	0.000502	3.759352
0.000357	3.335245	-0.000440	3.296394	0.000387	3.305900
0.000263	2.890885	-0.000359	2.958281	0.000306	2.944897
0.000207	2.590175	-0.000279	2.627855	0.000247	2.651180
0.000157	2.288534	-0.000229	2.368777	0.000190	2.332553
0.000132	2.121692	-0.000183	2.102414	0.000152	2.093365
0.000110	1.963178	-0.000153	1.908778	0.000119	1.860869
0.000075	1.680457	-0.000121	1.677779	0.000103	1.736978
0.000064	1.581195	-0.000093	1.445687	0.000078	1.523360
0.000029	1.212454	-0.000085	1.372183	0.000059	1.338399
0.000016	1.039547	-0.000076	1.284474	0.000047	1.207065
0.000006	0.888771	-0.000061	1.123173	0.000040	1.123386
-0.000001	0.763681	-0.000055	1.051749	0.000027	0.953273
-0.000006	0.660920	-0.000046	0.934431	0.000019	0.820744
-0.000010	0.562064	-0.000046	0.934431	0.000013	0.708836
		-0.000034	0.749985	0.000008	0.607750
		-0.000034	0.749985	0.000004	0.516845
		-0.000034	0.596115	0.00000	0.010070
		-0.000020	0.509470		1



Ref: CR-280-1-08-SATB-A

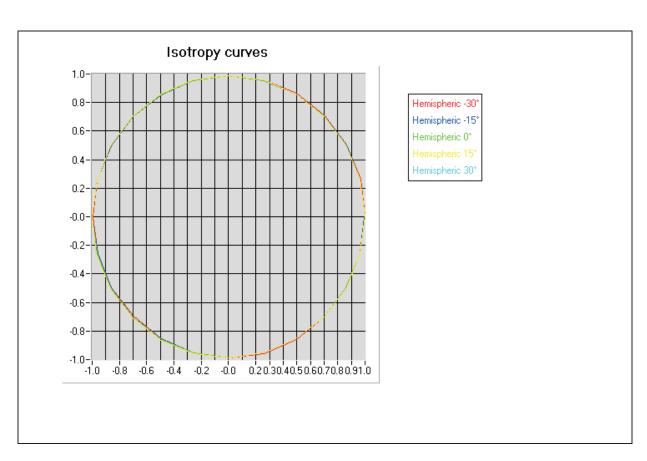
Page: 11/26 Issue: A Date: 2011/09/24

Sensitivity in liquid:

	- 1				
Liquid	3	σ	CF dipole 1	CF dipole 2	CF dipole 3
			(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>
			$(mV)^{-1}$	$(mV)^{-1}$	$(mV)^{-1}$
Head	41.50	0.90	28.479	25.214	27.196
Body	56.10	0.95	28.559	25.681	27.588

## B. Isotropy.

- Axial isotropy: 0.04 dB- Hemispherical isotropy: 0.04 dB



## C. Linearity.

- Linearity:

0.07 dB



Ref: CR-280-1-08-SATB-A

Page: 12/26 Issue: A Date: 2011/09/24

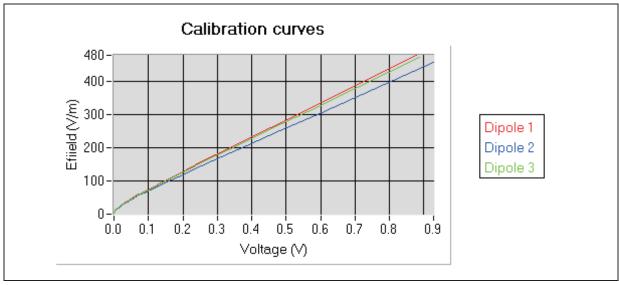
## 3. Calibration at 897.00 MHz

#### A. Calibration parameters.

Label	900
Epsilon	42.58
Sigma	0.96 S/m
Temperature	21℃
Cable loss	0.10 dB
Coupler loss	20.27 dB
Waveguide S11	-12.70 dB
Low limit detection	0.82 V/m (0.64 mW/kg)

Calibration curves ei=f(V) (i=1,2,3) allow to obtain E-field value using the formula:

$$E = \sqrt{E_1^2 * E_2^2 * E_3^2}$$





#### **Ref: CR-280-1-08-SATB-A**

0.878810	v1	e1	v2	e2	v3	e3
0.699049     387.518511     -0.752319     377.321870     0.705070     382.994       0.562801     317.354184     -0.603602     308.110116     0.562999     311.368       0.456625     262.562111     -0.482616     251.698142     0.450632     2254.594       0.369216     217.381022     -0.386006     206.527074     0.363798     210.6117       0.293620     178.145102     -0.313396     172.446614     0.294302     175.279       0.235810     147.891694     -0.254479     144.650728     0.237694     146.350       0.151354     103.395870     -0.166238     102.537441     0.155625     103.928       0.098881     72.556308     -0.104845     72.556308     0.104955     72.556308     0.108395     72.8073       0.082677     65.039197     -0.00592     65.039197     0.084502     65.1891       0.072569     59.934263     -0.079899     59.865301     0.074282     60.0033       0.050267     47.008388     -0.058273     53.910725     0.068273     53.910725     0.068236 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>474.446145</td></td<>						474.446145
0.562801     317.354184     -0.603602     308.110116     0.562999     311.3581       0.456625     262.582111     -0.482616     251.698142     0.450632     254.5944       0.369216     217.381022     -0.386006     206.527074     0.363798     210.6112       0.293620     178.145102     -0.313396     172.446614     0.294302     175.279       0.235810     147.981694     -0.254479     144.650728     0.237694     146.3502       0.18812     123.280907     -0.205809     121.524362     0.191549     122.5976       0.151354     103.395870     -0.166238     102.537341     0.155625     103.3928       0.098881     72.556308     -0.104845     72.556308     0.100895     72.8073       0.091615     69.290736     -0.098771     69.211008     0.093599     69.5304       0.072569     59.934263     -0.079899     59.865301     0.074262     60.033       0.061779     53.910725     -0.068273     53.910725     0.063236     54.0350       0.050267     47.008368     -0.05						382.994793
0.456625     262.582111     -0.482616     251.698142     0.450632     254.5944       0.369216     217.381022     -0.386006     206.527074     0.363798     210.6112       0.293620     178.145102     -0.313396     172.446614     0.294302     175.2797       0.235810     147.981694     -0.254479     144.650728     0.237694     146.350       0.188812     123.280907     -0.205809     121.524362     0.1915499     122.5976       0.151354     103.395870     -0.166238     102.537341     0.155625     103.9285       0.098881     72.556308     -0.104845     72.556308     0.100895     72.8073       0.091615     69.290736     -0.098717     69.2110008     0.093599     69.53940       0.082677     65.039197     -0.090592     65.039197     0.084502     65.1891       0.072569     59.934263     -0.079899     59.865301     0.074262     60.0033       0.050267     47.008368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.						
0.369216     217.381022     -0.386006     206.527074     0.363798     210.6112       0.293620     178.145102     -0.313396     172.446614     0.294302     175.279       0.235610     147.981694     -0.254479     144.650728     0.237694     146.350       0.188812     123.280907     -0.205809     121.524362     0.191549     122.597       0.151544     103.395870     -0.166238     102.537341     0.155625     103.9283       0.098881     72.556308     -0.104845     72.556308     0.100895     72.8073       0.091615     69.290736     -0.098771     69.211008     0.093599     69.5304       0.082677     65.039197     -0.096592     65.039197     0.084502     65.1891       0.072569     59.934263     -0.078999     59.865301     0.074282     60.0033       0.061779     53.910725     -0.068273     53.910725     0.06336     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
0.233620     178.145102     -0.313396     172.446614     0.234302     175.279       0.235810     147.981694     -0.254479     144.650728     0.237694     146.3502       0.188812     123.280907     -0.205809     121.524362     0.191549     122.5974       0.151354     103.395870     -0.166238     102.537341     0.155625     103.928       0.098881     72.556308     -0.104845     72.556308     0.100895     72.8073       0.091515     69.290736     -0.098771     69.211008     0.093599     69.5304       0.082677     65.039197     -0.090592     65.039197     0.084502     65.1891       0.072569     59.934263     -0.079899     59.865301     0.074282     60.0033       0.050267     47.008368     -0.056037     47.116734     0.051491     47.116734       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813       0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.025582     30.986689     -0.02869 <td></td> <td></td> <td></td> <td></td> <td></td> <td>210.611269</td>						210.611269
0.235810     147,981694     -0.254479     144,650728     0.237694     146,350:0.184812     123.280907     -0.205809     121,524362     0.191549     122,597     122,597     0.151354     103.958570     -0.166238     102,537341     0.155625     103.928:0.008881     72,556308     -0.104845     72,556308     0.100895     72,8073     0.091615     69,290736     -0.098771     69,211008     0.0935999     65,039197     0.084502     65,1891     0.072569     59,934263     -0.079899     59,865301     0.074282     60,0033     0.061779     53,910725     -0.068273     53,910725     0.063236     54,0350     0.050267     47,008368     -0.056037     47,116734     0.051491     47,1167     0.042568     42,283913     -0.047620     42,332622     0.043641     42,3813     0.035946     38,078092     -0.040363     38,165871     0.036889     31,165871     0.036889     31,165871     0.036889     40,2254869     0.021377     27,936705     -0.024181     27,96886     0.021377     27,936705     -0.024181     27,968886     0.021863     27,9688     0.021377						175.279111
0.188812     123.280907     -0.205809     121.524362     0.191549     122.5978       0.151354     103.395870     -0.166238     102.537341     0.156255     103.9282       0.098881     72.556308     -0.104845     72.556308     0.100895     72.8073       0.091615     69.290736     -0.098771     69.211008     0.093599     69.5304       0.082677     65.039197     -0.090592     65.039197     0.084502     65.1891       0.072569     59.934263     -0.078999     59.865301     0.074282     60.0033       0.061779     53.910725     -0.068273     53.910725     0.063236     54.0350       0.050267     47.008368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813       0.035946     38.078092     -0.0440363     38.165871     0.038689     38.1658       0.0235582     30.986689     -0.024869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181						146.350348
0.151354     103.395870     -0.166238     102.537341     0.156255     103.928;       0.098881     72.556308     -0.104845     72.556308     0.100895     72.8073       0.091615     69.290736     -0.098771     69.211008     0.093599     69.5304       0.082677     65.039197     -0.090592     65.039197     0.084502     65.1891       0.072569     59.934263     -0.0798899     59.865301     0.074282     60.0033       0.061779     53.910725     -0.068273     53.910725     0.063236     54.0350       0.050267     47.008368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3816       0.030387     34.330108     -0.034169     34.409247     0.031134     34.488       0.025582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.968886     0.011832     25.1289       0.014528     22.447872     -0.014841						
0.098881     72.556308     -0.104845     72.556308     0.100895     72.8073       0.091615     69.290736     -0.098771     69.211008     0.093599     69.5304       0.082677     65.039197     -0.090592     65.039197     0.084502     66.1891       0.072569     59.934263     -0.079899     59.865301     0.074282     60.0033       0.061779     53.910725     -0.068273     53.910725     0.063236     54.0350       0.050267     47.008368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043841     42.3813       0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.023387     34.330108     -0.024169     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.96886     0.021863     27.9688       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.01312 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>103.928232</td></t<>						103.928232
0.091615     69.290736     -0.098771     69.211008     0.093599     69.5304       0.082677     65.039197     -0.090592     65.039197     0.084502     65.1891       0.072569     59.934263     -0.079899     59.865301     0.074282     60.0033       0.061779     53.910725     -0.068273     53.910725     0.063236     54.0350       0.050267     47.008368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813       0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.030387     34.330108     -0.034169     34.409247     0.031134     34.4488       0.021377     27.936705     -0.024181     27.96886     0.021863     27.9688       0.017722     25.128998     -0.02091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
0.082677     65.039197     -0.090592     65.039197     0.084502     65.1891       0.072569     59.934263     -0.079899     59.865301     0.074282     60.0033       0.061779     53.910725     -0.068273     53.910725     0.063236     54.0350       0.050267     47.008368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813       0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.0330387     34.330108     -0.024169     34.409247     0.031134     34.4488       0.025582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.96886     0.021863     27.9688       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469						
0.072569     59.934263     -0.079899     59.865301     0.074282     60.0033       0.061779     53.910725     -0.068273     53.910725     0.063236     54.0350       0.050267     47.008368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813       0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.030387     34.330108     -0.034169     34.409247     0.031134     34.4488       0.02582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.968886     0.021863     27.9688       0.017722     25.128998     -0.020091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     <						
0.061779     53.910725     -0.068273     53.910725     0.063236     54.0350       0.050267     47.08368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813       0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.030387     34.330108     -0.034169     34.409247     0.031134     34.4488       0.025582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.96886     0.021863     27.9688       0.017722     25.128998     -0.020091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.01312     19.914765     0.011901     19.8918       0.009160     17.485344     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>60.003305</td></td<>						60.003305
0.050267     47.008368     -0.056037     47.116734     0.051491     47.1167       0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813       0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.030387     34.330108     -0.034169     34.409247     0.031134     34.4488       0.025582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.968886     0.021863     27.9688       0.017722     25.128998     -0.020091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.005466     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.00539     <						
0.042568     42.283913     -0.047620     42.332622     0.043641     42.3813       0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.030387     34.330108     -0.034169     34.409247     0.031134     34.4488       0.025582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.968886     0.021863     27.9688       0.017722     25.128998     -0.020091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.7970       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004382     10.560274     -0.004078						
0.035946     38.078092     -0.040363     38.165871     0.036889     38.1658       0.030387     34.330108     -0.034169     34.409247     0.031134     34.4488       0.025582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.968886     0.021863     27.9688       0.017722     25.128998     -0.020091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.7970       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.002814     9.498940     -0.003348     <						
0.030387     34.330108     -0.034169     34.409247     0.031134     34.4488       0.025582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.968886     0.021863     27.9688       0.017722     25.128998     -0.020091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.797       0.004307     11.780811     -0.00539     11.794382     0.004386     11.7808       0.004307     11.780811     -0.00539     11.794382     0.004386     11.7508       0.002814     9.498940     -0.004078     10.572439     0.003548     10.5724       0.002876     8.544274     -0.002732     8						
0.025582     30.986689     -0.028869     31.022384     0.026194     31.0581       0.021377     27.936705     -0.024181     27.96886     0.021863     27.9688       0.017722     25.128998     -0.020091     25.128998     0.018132     25.128998       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.7970       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.002814     9.498940     -0.004078     10.572439     0.003548     10.5724       0.002287     8.544274     -0.002732     8.554117     0.002314     8.54911       0.001458     6.865548     -0.001448 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
0.021377     27.936705     -0.024181     27.96886     0.021863     27.9688       0.017722     25.128998     -0.020091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.7970       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005399     11.794382     0.004386     11.7808       0.002814     9.498940     -0.004078     10.572439     0.003548     10.5724       0.002287     8.544274     -0.002732     8.554117     0.002314     8.5491       0.001458     6.865548     -0.001448     6.110581     0.001467     6.8731       0.001440     6.093914     -0.004488     6.110						
0.017722     25.128998     -0.020091     25.128998     0.018132     25.1289       0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.7970       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.003482     10.560274     -0.004078     10.572439     0.003548     10.5724       0.00287     8.544274     -0.002732     8.554117     0.002314     8.5491       0.001458     6.865548     -0.00181     6.874850     0.001467     6.8731       0.001400     6.093914     -0.001448     6.110581     0.00146     6.1192       0.000870     5.359101     -0.001448     6.110581<						
0.014528     22.447872     -0.016484     22.447872     0.014809     22.4220       0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.7970       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.003482     10.560274     -0.004078     10.572439     0.003548     10.5724       0.002814     9.498940     -0.003348     9.509883     0.002876     9.50988       0.002287     8.544274     -0.002732     8.554117     0.002314     8.5491       0.001458     6.865548     -0.001811     6.874850     0.001467     6.8731       0.000470     5.359101     -0.001448     6.110581     0.001467     6.1192       0.000870     5.359101     -0.000554     3.591290						
0.011676     19.914765     -0.013312     19.914765     0.011901     19.8918       0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.7970       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.003482     10.560274     -0.004078     10.572439     0.003548     10.5724       0.002814     9.498940     -0.003348     9.50988     0.002876     9.5098       0.002287     8.544274     -0.002732     8.554117     0.002314     8.5491       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87316       0.00140     6.093914     -0.001448     6.110581     0.001467     6.87316       0.000602     4.512924     -0.000826     4.509302     0.000594     4.5386       0.000465     4.012011     -0.000681     4.045927 <td></td> <td></td> <td></td> <td></td> <td></td> <td>22.422043</td>						22.422043
0.009160     17.485384     -0.010469     17.485384     0.009337     17.4652       0.006717     14.797051     -0.007745     14.797051     0.006833     14.7970       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.003482     10.560274     -0.004078     10.572439     0.003548     10.5724       0.002814     9.498940     -0.003348     9.509883     0.002876     9.50988       0.002287     8.544274     -0.002732     8.554117     0.002314     8.54917       0.001835     7.676711     -0.002231     7.694408     0.001854     7.68444       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87316       0.00140     6.093914     -0.001448     6.110581     0.001146     6.1192       0.000870     5.359101     -0.00147     5.395359     0.000872     5.3928       0.000465     4.012011     -0.00681     4.045927						
0.006717     14.797051     -0.007745     14.797051     0.006833     14.79705       0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.003482     10.560274     -0.004078     10.572439     0.003548     10.5724       0.002814     9.498940     -0.003348     9.509883     0.002876     9.50988       0.002287     8.544274     -0.002732     8.554117     0.002314     8.54917       0.001835     7.676711     -0.002231     7.694408     0.001854     7.68444       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87316       0.000470     5.359101     -0.001448     6.110581     0.001466     6.1192       0.000602     4.512924     -0.000826     4.509302     0.000594     4.53866       0.000465     4.012011     -0.000681     4.045927     0.000459     4.0595       0.000278     3.204293     -0.000471     3.260085 <td></td> <td></td> <td></td> <td></td> <td></td> <td>17.465265</td>						17.465265
0.005366     13.172711     -0.006210     13.187886     0.005458     13.1727       0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.003482     10.560274     -0.004078     10.572439     0.003548     10.5724       0.002814     9.498940     -0.003348     9.509883     0.002876     9.50988       0.002287     8.544274     -0.002732     8.554117     0.002314     8.54917       0.001835     7.676711     -0.002231     7.694408     0.001854     7.68444       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87318       0.001400     6.093914     -0.001448     6.110581     0.00146     6.1192       0.000870     5.359101     -0.00147     5.395359     0.000872     5.39285       0.000465     4.012011     -0.000826     4.509302     0.000594     4.53866       0.000278     3.294293     -0.00054     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085						
0.004307     11.780811     -0.005039     11.794382     0.004386     11.7808       0.003482     10.560274     -0.004078     10.572439     0.003548     10.5724       0.002814     9.498940     -0.003348     9.509883     0.002876     9.50988       0.002287     8.544274     -0.002732     8.554117     0.002314     8.54917       0.001835     7.676711     -0.002231     7.694408     0.001854     7.68444       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87318       0.00140     6.093914     -0.001448     6.110581     0.00146     6.1192       0.000870     5.359101     -0.00147     5.395359     0.000872     5.39286       0.000465     4.012011     -0.000826     4.509302     0.000594     4.53866       0.000363     3.594012     -0.000554     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085     0.000265     3.24965       0.000170     2.627007     -0.000341     2.659695						
0.003482     10.560274     -0.004078     10.572439     0.003548     10.5724       0.002814     9.498940     -0.003348     9.509883     0.002876     9.50988       0.002287     8.544274     -0.002732     8.554117     0.002314     8.54917       0.001835     7.676711     -0.002231     7.694408     0.001854     7.68444       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87318       0.001140     6.093914     -0.001448     6.110581     0.001146     6.1192       0.000870     5.359101     -0.001147     5.395359     0.000872     5.39285       0.000602     4.512924     -0.000826     4.509302     0.000594     4.53866       0.000465     4.012011     -0.000681     4.045927     0.000459     4.0595       0.000278     3.594012     -0.000554     3.591290     0.000354     3.6435       0.000278     3.204293     -0.000471     3.260085     0.000142     2.88116       0.000170     2.627007     -0.000341     2.659695						
0.002814     9.498940     -0.003348     9.509883     0.002876     9.50988       0.002287     8.544274     -0.002732     8.554117     0.002314     8.54917       0.001835     7.676711     -0.002231     7.694408     0.001854     7.68444       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87318       0.00140     6.093914     -0.001448     6.110581     0.001146     6.1192       0.000870     5.359101     -0.001147     5.395359     0.000872     5.39287       0.000602     4.512924     -0.000826     4.509302     0.000594     4.53866       0.000465     4.012011     -0.000681     4.045927     0.000459     4.0595       0.000278     3.204293     -0.000471     3.260085     0.000265     3.2495       0.000230     2.961646     -0.000401     2.952011     0.000142     2.60873       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60873       0.000090     2.099426     -0.000248     2.128701     <						10.572439
0.002287     8.544274     -0.002732     8.554117     0.002314     8.54917       0.001835     7.676711     -0.002231     7.694408     0.001854     7.68444       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87318       0.001140     6.093914     -0.001448     6.110581     0.001146     6.1192       0.000870     5.359101     -0.001147     5.395359     0.000872     5.39287       0.000602     4.512924     -0.000826     4.509302     0.000594     4.53866       0.000465     4.012011     -0.000681     4.045927     0.000459     4.0595       0.000278     3.204293     -0.000471     3.260085     0.000265     3.2495       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60873       0.000190     2.099426     -0.000248     2.128701     0.000061     2.0818						
0.001835     7.676711     -0.002231     7.694408     0.001854     7.68444       0.001458     6.865548     -0.001811     6.874850     0.001467     6.87318       0.001140     6.093914     -0.001448     6.110581     0.001146     6.1192       0.000870     5.359101     -0.001147     5.395359     0.000872     5.3928       0.000602     4.512924     -0.000826     4.509302     0.000594     4.5386       0.000465     4.012011     -0.000681     4.045927     0.000459     4.0595       0.000363     3.594012     -0.000554     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085     0.000265     3.24952       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60873       0.000140     2.442555     -0.000276     2.301496     0.000061     2.0818       0.000090     2.099426     -0.000248     2.128701 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>8.549179</td></t<>						8.549179
0.001458     6.865548     -0.001811     6.874850     0.001467     6.87318       0.001140     6.093914     -0.001448     6.110581     0.001146     6.1192       0.000870     5.359101     -0.001147     5.395359     0.000872     5.39287       0.000602     4.512924     -0.000826     4.509302     0.000594     4.53866       0.000465     4.012011     -0.000681     4.045927     0.000459     4.0595       0.000363     3.594012     -0.000554     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085     0.000265     3.24952       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60873       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						7.684445
0.001140     6.093914     -0.001448     6.110581     0.001146     6.1192       0.000870     5.359101     -0.001147     5.395359     0.000872     5.39287       0.000602     4.512924     -0.000826     4.509302     0.000594     4.53866       0.000465     4.012011     -0.000681     4.045927     0.000459     4.05957       0.000363     3.594012     -0.000554     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085     0.000265     3.24952       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60873       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						6.873184
0.000870     5.359101     -0.001147     5.395359     0.000872     5.39287       0.000602     4.512924     -0.000826     4.509302     0.000594     4.53866       0.000465     4.012011     -0.000681     4.045927     0.000459     4.05957       0.000363     3.594012     -0.000554     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085     0.000265     3.24952       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60873       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						
0.000602     4.512924     -0.000826     4.509302     0.000594     4.53866       0.000465     4.012011     -0.000681     4.045927     0.000459     4.0595       0.000363     3.594012     -0.000554     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085     0.000265     3.24952       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60873       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						5.392877
0.000465     4.012011     -0.000681     4.045927     0.000459     4.0595       0.000363     3.594012     -0.000554     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085     0.000265     3.24952       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60879       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						4.538660
0.000363     3.594012     -0.000554     3.591290     0.000354     3.64354       0.000278     3.204293     -0.000471     3.260085     0.000265     3.24952       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60879       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						4.059514
0.000278     3.204293     -0.000471     3.260085     0.000265     3.24952       0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60879       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						3.643540
0.000230     2.961646     -0.000401     2.952011     0.000191     2.88116       0.000170     2.627007     -0.000341     2.659695     0.000142     2.60879       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						3.249520
0.000170     2.627007     -0.000341     2.659695     0.000142     2.60879       0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						2.881168
0.000140     2.442555     -0.000276     2.301496     0.000097     2.33078       0.000090     2.099426     -0.000248     2.128701     0.000061     2.0818						2.608794
0.000090 2.099426 -0.000248 2.128701 0.000061 2.0818 <sup>3</sup>						2.330782
						2.081811
						1.897771
						1.648194
	0.000022					1.402573
						1.206539
		1.176489				1.024494
						0.870486
						0.751437
						0.642982
						0.555219
						0.476607
-0.000045 0.447692	-0.000045	0.447692				



Ref: CR-280-1-08-SATB-A

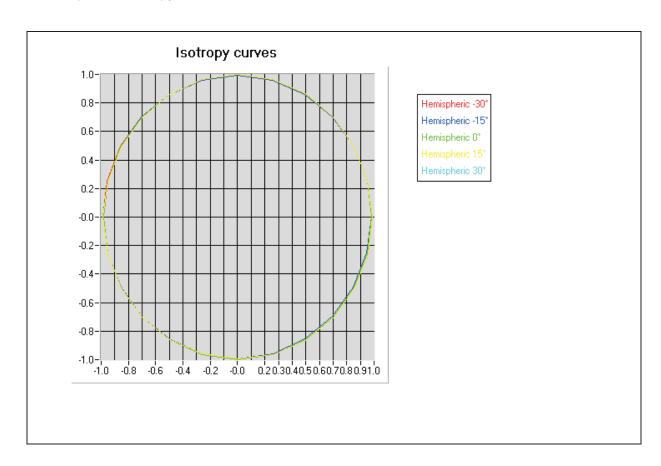
Page: 14/26 Issue: A Date: 2011/09/24

Sensitivity in liquid:

	-1				
Liquid	3	σ	CF dipole 1	CF dipole 2	CF dipole 3
_			(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>
			$(mV)^{-1}$	$(mV)^{-1}$	$(mV)^{-1}$
Head	41.50	0.97	32.062	27.383	31.065
Body	56.80	1.07	32.381	27.581	31.069

## B. Isotropy.

- Axial isotropy: 0.04 dB- Hemispherical isotropy: 0.04 dB



## C. Linearity.

Linearity:

0.08 dB



Ref: CR-280-1-08-SATB-A

Page: 15/26 Issue: A Date: 2011/09/24

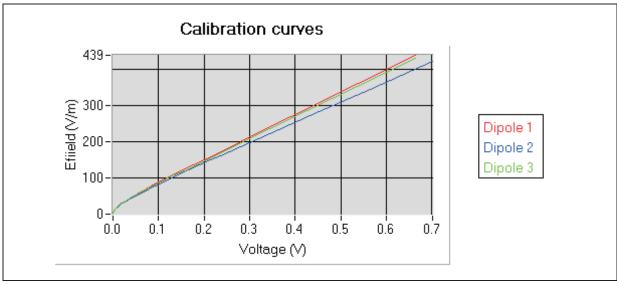
## 4. Calibration at 1747.00 MHz

#### A. Calibration parameters.

Label	1800
Epsilon	40.09
Sigma	1.38 S/m
Temperature	21℃
Cable loss	0.14 dB
Coupler loss	20.18 dB
Waveguide S11	-12.70 dB
Low limit detection	0.77 V/m (0.76 mW/kg)

Calibration curves ei=f(V) (i=1,2,3) allow to obtain E-field value using the formula:

$$E = \sqrt{E_1^2 * E_2^2 * E_3^2}$$





#### **Ref: CR-280-1-08-SATB-A**

Page: 16/26 | Issue: A | Date: 2011/09/24

v1	e1	v2	e2	v3	e3
0.663731	438.804880	-0.701709	422.361031	0.663453	429.853445
0.539160	362.023035	-0.564539	345.724684	0.536788	353.373332
0.431901	295.807669	-0.451753	282.594309	0.426460	286.648108
0.343426	241.057307	-0.364982	233.896166	0.343134	236.130713
0.219808	160.277952	-0.235390	160.277952	0.223560	160.093531
0.199960	148.892830	-0.214656	149.064347	0.203583	148.379460
0.176749	135.012440	-0.190364	135.323676	0.179925	134.701919
0.153903	121.303627	-0.166397	121.583260	0.156830	121.024636
0.132690	108.236511	-0.144052	108.486023	0.135416	108.111971
0.114103	96.688269	-0.124392	96.911158	0.116620	96.577017
0.098196	86.471658	-0.107364	86.670996	0.100436	86.372161
0.084369	77.512863	-0.092566	77.691549	0.086455	77.423676
0.072516	69.642408	-0.079735	69.802951	0.074359	69.562276
0.062289	62.715341	-0.068695	62.787586	0.063969	62.715341
0.053507	56.542341	-0.059144	56.737969	0.055031	56.607475
0.045565	50.859699	-0.050463	50.976943	0.046806	50.801177
0.036953	44.501412	-0.041052	44.603998	0.038010	44.501412
0.030069	39.162805	-0.033529	39.253084	0.030974	39.162805
0.024559	34.623724	-0.027457	34.703541	0.025331	34.663610
0.020114	30.822921	-0.027437	30.893975	0.020790	30.822921
0.016497	27.502602	-0.022370	27.566001	0.017063	27.534284
0.013562	24.624860	-0.015276	24.681628	0.014044	24.653228
0.013362	22.124516	-0.013270	22.175519	0.011567	22.150003
0.009196	19.923873	-0.012011	19.969804	0.009549	19.969804
0.009196	17.983483	-0.010407	18.024938	0.009349	18.024938
0.007393	16.194732	-0.007082	16.232065	0.007867	16.213389
0.004819 0.003758	14.153825 12.470210	-0.005485 -0.004301	14.186452 12.484575	0.004999 0.003902	14.186452 12.470210
0.003758	11.024878	-0.004301	11.050293	0.003902	11.037578
0.002958	9.803334	-0.003393	9.825932	0.003070	9.814627
0.002333	8.747294	-0.002099	8.757373	0.002439	8.767460
0.001870	7.841042	-0.002166	7.850074	0.001936	7.859117
			7.052998		
0.001206 0.000974	7.036777 6.336855	-0.001411 -0.001152	6.358779	0.001257 0.001020	7.061124 6.366104
0.000974	5.726296	-0.001132	5.739497	0.001020	5.739497
0.000793	5.052889	-0.000949		0.000640	
0.000461	4.393269	-0.000742	5.050958 4.414421	0.00040	5.050958 4.424549
0.000461		-0.000572	3.916767	0.000463	
	3.893589	-0.000447			3.896823
0.000272 0.000212	3.442008 3.079166		3.420826 3.086385	0.000287 0.000223	3.458278 3.077746
0.000212	2.804352	-0.000284 -0.000237	2.801601	0.000223	2.751051
			<u> </u>		
0.000125	2.459743 2.223990	-0.000185	2.448220 2.290103	0.000141 0.000108	2.507157 2.236826
0.000097	2.223990	-0.000164			2.236826
0.000078		-0.000135 -0.000102	2.051816	0.000085	
0.000057	1.835400	0.000.02	1.741442	0.000065	1.825466
0.000043	1.678270	-0.000098	1.699975	0.000053	1.692922
0.000027	1.478382	-0.000082	1.522855	0.000041	1.549077
0.000017	1.338378	-0.000066	1.322219	0.000023	1.303888
0.000005	1.148052	-0.000054	1.148974	0.000015	1.178656
0.000002	1.095316	-0.000049	1.068531	0.000011	1.110757
-0.000006	0.937825	-0.000043	0.963171	0.000002	0.940225
-0.000012	0.811741	-0.000036	0.823385	-0.000004	0.809110
-0.000016	0.698282	-0.000031	0.712959	-0.000008	0.697060
-0.000019	0.597362	-0.000027	0.605013	-0.000012	0.596303
-0.000022	0.508555	-0.000025	0.523033	-0.000014	0.515459
-0.000024	0.437175	-0.000023	0.450836	-0.000016	0.443307



#### Ref: CR-280-1-08-SATB-A

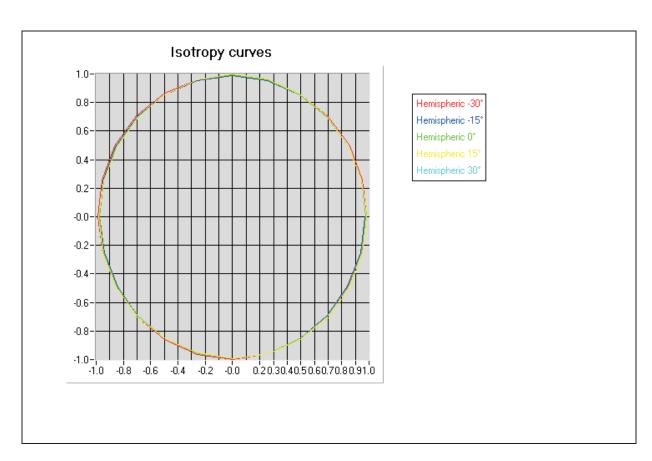
Page: 17/26 Issue: A Date: 2011/09/24

Sensitivity in liquid:

	1				
Liquid	3	σ	CF dipole 1	CF dipole 2	CF dipole 3
			(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>
			$(mV)^{-1}$	$(mV)^{-1}$	$(mV)^{-1}$
Head	42.00	1.40	42.533	36.791	41.019
Body	54.00	1.45	42.982	37.514	41.835

## B. Isotropy.

- Axial isotropy: 0.05 dB- Hemispherical isotropy: 0.06 dB



## C. Linearity.

- Linearity:

0.08 dB



Ref: CR-280-1-08-SATB-A

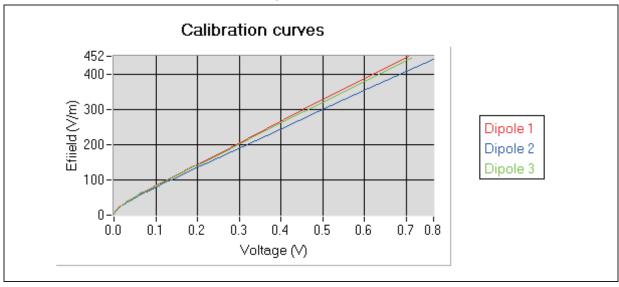
## 5. Calibration at 1880.00 MHz

#### A. Calibration parameters.

Label	1900
Epsilon	39.68
Sigma	1.39 S/m
Temperature	21℃
Cable loss	0.15 dB
Coupler loss	20.12 dB
Waveguide S11	-32.10 dB
Low limit detection	0.82 V/m (0.93 mW/kg)

Calibration curves ei=f(V) (i=1,2,3) allow to obtain E-field value using the formula:

$$E = \sqrt{E_1^2 * E_2^2 * E_3^2}$$





#### **Ref: CR-280-1-08-SATB-A**

Page: 19/26 | Issue: A | Date: 2011/09/24

1	-1	v2	e2	v3	e3
v1 0.705687	e1				
0.563683	452.433469 367.171675	-0.764862 -0.608616	444.880127 360.024001	0.711360 0.572685	446.684059 365.129747
0.363663	300.224376	-0.606616		0.454781	
			294.121999		295.690095
0.364839	247.497983	-0.395865	244.176010	0.366095	243.346556
0.233395	163.656692	-0.249573	163.656692	0.237445	163.656692
0.215075	153.261745	-0.230502	153.438296	0.219204	153.261745
0.191763	139.937390	-0.206083	140.098591	0.195785	140.098591
0.167877	125.873344	-0.180901	126.163511	0.171664	126.308846
0.145753	112.832385	-0.157556	113.092489	0.149292	113.222768
0.126236	101.142520	-0.136873	101.259030	0.129435	101.492457
0.108989	90.559448	-0.118604	90.663768	0.111932	90.872769
0.094057	81.177144	-0.102669	81.364277	0.096737	81.551841
0.080982	72.934627	-0.088705	73.102759	0.083414	73.271278
0.069714	65.604521	-0.076562	65.755754	0.071914	65.907337
0.059985	59.215277	-0.066067	59.351782	0.061926	59.488602
0.051909	53.756844	-0.057334	53.880767	0.053598	53.942835
0.042215	46.982246	-0.046814	47.036367	0.043656	47.144797
0.034444	41.298451	-0.038327	41.393653	0.035678	41.441338
0.028208	36.511843	-0.031481	36.596012	0.029255	36.638170
0.023204	32.466372	-0.025945	32.541214	0.024075	32.616231
0.019074	28.969017	-0.021384	29.035797	0.019810	29.102733
0.015712	25.937838	-0.017664	25.997630	0.016340	26.057561
0.012954	23.304177	-0.014597	23.357899	0.013487	23.384805
0.010696	20.962051	-0.012072	21.010373	0.011146	21.058807
0.008846	18.920550	-0.010001	18.964167	0.009222	19.007884
0.007320	17.117241	-0.008280	17.136959	0.007622	17.156700
0.005669	14.942861	-0.006432	14.977308	0.005902	14.994562
0.004418	13.135112	-0.005030	13.165392	0.004607	13.180557
0.003480	11.612714	-0.003970	11.639485	0.003632	11.666316
0.002760	10.337935	-0.003165	10.349843	0.002885	10.361766
0.002209	9.213693	-0.002527	9.234933	0.002300	9.256223
0.001769	8.249616	-0.002042	8.268634	0.001851	8.278160
0.001425	7.411972	-0.001657	7.420510	0.001492	7.437617
0.001154	6.667051	-0.001350	6.682420	0.001208	6.697825
0.000934	6.017745	-0.001105	6.031617	0.000980	6.035436
0.000716	5.271494	-0.000849	5.265501	0.000745	5.279016
0.000539	4.606218	-0.000654	4.609655	0.000566	4.620497
0.000413	4.059511	-0.000512	4.066035	0.000437	4.080555
0.000317	3.587480	-0.000405	3.602614	0.000335	3.596690
0.000249	3.211417	-0.000324	3.207578	0.000271	3.256587
0.000199	2.903996	-0.000268	2.903208	0.000212	2.908029
0.000152	2.581857	-0.000216	2.588731	0.000157	2.540391
0.000121	2.345289	-0.000176	2.317973	0.000133	2.362102
0.000090	2.082012	-0.000151	2.131354	0.000100	2.092295
0.000072	1.912583	-0.000126	1.926743	0.000083	1.938704
0.000055	1.737461	-0.000107	1.755360	0.000061	1.719695
0.000036	1.518014	-0.000084	1.522296	0.000046	1.552761
0.000025	1.375051	-0.000073	1.397154	0.000030	1.352169
0.000010	1.151852	-0.000060	1.232991	0.000019	1.194885
0.000009	1.135413	-0.000046	1.027269	0.000010	1.028022
0.000003	1.031291	-0.000037	0.872937	0.000003	0.874876
-0.000005	0.880469	-0.000031	0.752345	-0.000001	0.749785
-0.000003	0.760355	-0.000037	0.645069	-0.000009	0.639312
-0.000010	0.651604	-0.000027	0.551655	-0.000012	0.551888
-0.000014	0.554581	-0.000023	0.468256	-0.000012	0.473314
-0.000017	0.478585	-0.000021	0.700230	-0.000014	0.770017
-0.000018	0.470000	l .	I	<u> </u>	



Ref: CR-280-1-08-SATB-A

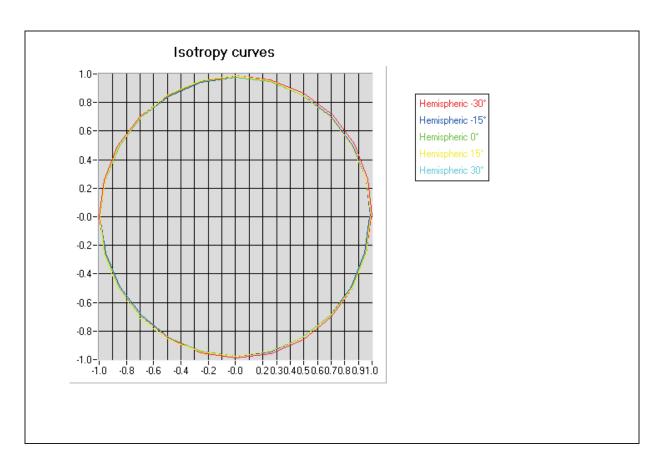
Page: 20/26 Issue: A Date: 2011/09/24

Sensitivity in liquid:

	1				
Liquid	3	σ	CF dipole 1	CF dipole 2	CF dipole 3
			(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>
			$(mV)^{-1}$	$(mV)^{-1}$	$(mV)^{-1}$
Head	42.00	1.40	40.136	34.843	38.721
Body	54.00	1.45	40.625	34.773	38.535

## B. Isotropy.

- Axial isotropy: 0.06 dB- Hemispherical isotropy: 0.07 dB



## C. Linearity.

- Linearity:

0.12 dB



Ref: CR-280-1-08-SATB-A

Page: 21/26 | Issue: A | Date: 2011/09/24

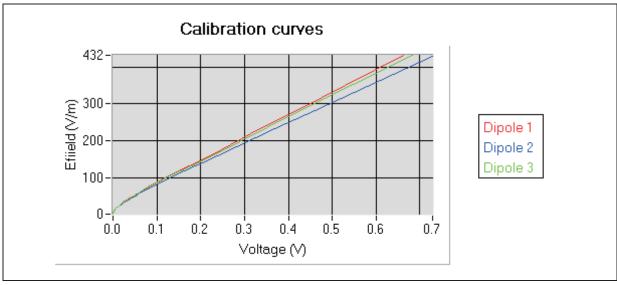
## 6. Calibration at 1950.00 MHz

#### A. Calibration parameters.

Label	2000
Epsilon	39.69
Sigma	1.44 S/m
Temperature	21℃
Cable loss	0.14 dB
Coupler loss	20.12 dB
Waveguide S11	-31.20 dB
Low limit detection	0.79 V/m (0.89 mW/kg)

Calibration curves ei=f(V) (i=1,2,3) allow to obtain E-field value using the formula:

$$E = \sqrt{E_1^2 * E_2^2 * E_3^2}$$





#### **Ref: CR-280-1-08-SATB-A**

0.661947     431.378356     -0.728866     422.451431     0.681969     432.24284       0.528785     350.395683     -0.580429     348.089033     0.548843     353.46628       0.423011     285.964354     -0.461683     282.880864     0.436057     286.62002       0.338877     234.595447     -0.370019     232.499000     0.351179     236.19657       0.222899     159.936072     -0.239362     159.752045     0.227301     159.93607       0.199714     146.536706     -0.214934     146.368096     0.203996     146.53670       0.173676     131.052837     -0.187341     131.203804     0.177773     311.5543       0.149407     116.666568     -0.161622     116.666568     0.153166     116.3351       0.127916     103.501448     -0.138841     103.620677     0.131334     103.7400       0.194550     92.033603     -0.119179     92.245763     0.112533     92.35202       0.093698     82.025035     -0.102267     82.214122     0.096429     82.30833       0.08021     73.442327	v1	e1	v2	e2	v3	e3
0.528785     350.395683     -0.580429     348.089033     0.548843     353.46682       0.423011     285.964354     -0.461683     282.880864     0.436057     286.62002       0.338877     234.693477     -0.370019     232.409000     0.351179     226.19657       0.222899     159.958072     -0.239382     159.752045     0.227301     159.95807       0.199714     146.536706     -0.214934     146.386096     0.203996     146.53670       0.173676     131.052837     -0.187341     131.203804     0.177783     131.35494       0.149407     116.666558     -0.161622     116.666558     0.153166     116.93551       0.127916     103.501448     -0.138841     103.620677     0.13134     103.74004       0.109450     92.033603     -0.19179     92.245763     0.112533     92.352025       0.080261     73.442327     -0.087875     73.526929     0.082737     73.611625       0.080261     73.442327     -0.087875     73.526929     0.082737     73.611625       0.085889     59.148866						
0.423011     285.984354     -0.461683     282.880864     0.436057     286.62002       0.338877     234.593477     -0.370019     232.499000     0.351179     236.19657       0.222899     159.936072     -0.239382     159.752045     0.227301     159.93607       0.199714     146.536706     -0.214934     146.368096     0.203996     146.53670       0.173676     131.052837     -0.187341     131.203804     0.1777783     131.3344       0.149407     116.666568     -0.161622     116.666568     0.153166     116.9351       0.127916     103.501448     -0.138841     103.620677     0.131334     103.74004       0.109450     92.033603     -0.119179     92.245763     0.112533     92.35202       0.093698     82.025035     -0.102267     82.214122     0.096429     82.30883       0.080261     73.442327     -0.087875     73.526929     0.08273     73.611622       0.068722     65.833421     -0.075460     65.909259     0.070899     65.985183       0.058489     59.148866						
0.338877     234,593477     -0.370019     232,409000     0.351179     236,19657       0.222899     159,936072     -0.239382     159,752045     0.227301     159,93607       0.199714     146,536706     -0.214934     146,366096     0.203996     146,53670       0.173676     131,052837     -0.187341     131,203804     0.177783     131,35494       0.149407     116,666568     -0.161622     116,666568     0.153166     116,33551       0.127916     103,501448     -0.138841     103,620677     0.131334     103,74004       0.109450     92,033603     -0.102267     82,214122     0.096429     82,30883       0.080261     73,442327     -0.087875     73,526929     0.082737     73,611625       0.068722     65,833421     -0.075460     65,90259     0.070899     65,98518       0.050483     53,326911     -0.055737     53,49842     0.052146     53,57305       0.043169     48,188835     -0.047771     48,244344     0.044590     42,164449       0.028320     36,978256						
0.222899     159.936072     -0.239382     159.752045     0.227301     159.93607       0.199714     146.536706     -0.214934     146.368096     0.203996     146.53670       0.173676     131.052837     -0.187341     131.203804     0.177783     131.35444       0.149407     116.666568     -0.161622     116.666568     0.153166     116.93551       0.127916     103.501448     -0.138841     103.660677     0.131334     103.74004       0.109450     92.033603     -0.119179     92.245763     0.112533     92.352022       0.093698     82.025035     -0.102267     82.214122     0.096429     82.30883       0.086721     63.83421     -0.076460     66.909259     0.070899     65.98518       0.058889     59.148866     -0.064861     59.285315     0.060789     59.35351       0.050483     53.326911     -0.055737     53.449842     0.052146     53.57305       0.043169     48.188835     -0.047771     48.244346     0.044590     48.244344       0.028320     36.978256						
0.199714     146.536706     0.214934     146.368096     0.203996     146.53670       0.173676     131.052837     -0.187341     131.203804     0.177783     131.35494       0.149407     116.666568     -0.161622     116.666568     1.6193551       0.127916     103.501448     -0.138841     103.620677     0.131334     103.74004       0.109450     92.033603     -0.119179     92.245763     0.112533     92.32352025       0.080261     73.442327     -0.087875     73.526929     0.082737     73.611622       0.080261     73.442327     -0.087875     73.526929     0.082737     73.611622       0.088722     65.833421     -0.075460     65.909259     0.070899     65.98516       0.058889     59.148866     -0.064861     59.285219     0.060789     59.35351       0.054169     48.188835     -0.047771     48.244344     0.052146     53.573051       0.034915     42.067473     -0.038773     42.164449     0.036094     42.16444       0.023047     32.692372     -0.025731						
0.173676     131.052837     -0.187341     131.203804     0.177783     131.35494       0.149407     116.666568     -0.161622     116.666568     0.153166     116.93551       0.127916     103.501448     -0.138841     103.620677     0.131334     103.74004       0.109450     92.033603     -0.119179     92.245763     0.112533     92.352022       0.03698     82.025035     -0.102267     82.214122     0.096429     82.30883       0.088721     68.833421     -0.075460     65.909259     0.070899     65.98518       0.058889     59.148866     -0.064861     59.285219     0.060789     59.35351;       0.059483     53.326911     -0.055737     53.449842     0.052146     53.57305;       0.043169     48.188835     -0.047771     48.244346     0.044590     48.244344       0.023047     32.692372     -0.031538     37.020853     0.023022     37.06349       0.018835     29.070093     -0.021541     32.730031     0.023873     32.76773       0.018835     29.070093	******					
0.149407     116,666568     -0.161622     116,666568     0.153166     116,93551       0.127916     103,501448     -0.138841     103,620677     0.131334     103,74004       0.109450     92,033603     -0.119179     92,245763     0.112533     92,352022       0.03698     82,025035     -0.102267     82,214122     0.096429     82,308836       0.080261     73,442327     -0.087875     73,526929     0.082737     73,611622       0.068722     65,833421     -0.075460     65,909259     0.070899     65,985183       0.058889     59,148866     -0.064861     59,285219     0.060789     59,353513       0.050483     53,326911     -0.055737     53,449842     0.052146     55,573051       0.043169     48,188835     -0.047771     48,244346     0.044590     48,244344       0.034915     42,067473     -0.038773     42,164449     0.036094     42,164444       0.028320     36,978256     -0.015383     37,020853     0.029302     37,063496       0.01363     29,070093 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
0.127916     103.501448     -0.138841     103.620677     0.131334     103.74004       0.109450     92.033603     -0.119179     92.245763     0.112533     92.352025       0.080261     73.442327     -0.087875     73.526929     0.082737     73.611625       0.068722     65.833421     -0.075460     65.909259     0.070899     65.98518       0.058889     59.148866     -0.064861     59.285219     0.060789     59.35351       0.050483     53.326911     -0.055737     53.449842     0.052146     53.573051       0.043169     48.188835     -0.047771     48.244346     0.044590     48.24344       0.028320     36.978256     -0.031538     37.020853     0.029302     37.06349       0.023047     32.692372     -0.025741     32.730031     0.023873     32.76773       0.018835     29.070093     -0.021938     29.103581     0.019526     29.13710       0.015403     25.998747     -0.017291     25.968474     0.015986     25.99338       0.012633     23.1977780     -0.01						
0.109450     92.033603     -0.119179     92.245763     0.112533     92.352025       0.093698     82.025035     -0.102267     82.214122     0.096429     82.30883       0.080261     73.442327     -0.087875     73.526929     0.082737     73.611627       0.068722     65.833421     -0.075460     65.909259     0.070899     65.985183       0.058889     59.148866     -0.064861     59.285219     0.080789     59.353515       0.050493     53.326911     -0.055737     53.449842     0.052146     53.57305       0.043169     48.188835     -0.047771     48.244346     0.044590     48.244344       0.034915     42.067473     -0.038773     42.164449     0.036094     42.164444       0.023047     32.692372     -0.025741     32.730031     0.023873     32.76773       0.018835     29.070093     -0.021098     29.103581     0.019526     29.13710       0.0146403     25.998747     -0.017291     25.968474     0.01726     0.013114     23.27804*       0.0045404     15.48						
0.093698     82.025035     -0.102267     82.214122     0.096429     82.308836       0.080261     73.442327     -0.087875     73.526929     0.082737     73.611628       0.088722     65.833421     -0.075460     65.909259     0.070899     66.985185       0.058889     59.148866     -0.064861     59.285219     0.060789     59.35351       0.050483     53.326911     -0.055737     53.449842     0.052146     53.573057       0.043169     48.188835     -0.047771     48.244346     0.044590     48.244346       0.034915     42.067473     -0.038773     42.164449     0.036094     42.164449       0.028320     36.978256     -0.031538     37.020853     0.029302     37.063498       0.023047     32.692372     -0.025741     32.730031     0.023873     32.767733       0.018435     29.070093     -0.021098     29.103581     0.019526     22.137101       0.015403     25.908747     -0.017291     25.968474     0.015986     25.998388       0.012633     23.197780     -0						
0.080261     73.442327     -0.087875     73.526929     0.082737     73.611628       0.088722     65.833421     -0.075460     65.090259     0.070899     65.985183       0.058889     59.148866     -0.064861     59.285219     0.060789     59.355513       0.050483     53.326911     -0.055737     53.449842     0.052146     53.573057       0.043169     48.188835     -0.047771     48.244346     0.044590     48.244344       0.02320     36.978256     -0.031538     37.020853     0.029302     37.063498       0.023047     32.692372     -0.025741     32.730031     0.023873     32.76773       0.018835     29.070093     -0.021098     29.13581     0.019526     29.137101       0.015403     25.908747     -0.017291     25.968474     0.015986     25.99838       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.01685     20.86346     0.010777     20.89038*       0.007926     16.921794     -0.0079						
0.068722     65.833421     -0.075460     65.909259     0.070899     65.98518:       0.058889     59.148866     -0.064861     59.285219     0.060789     59.35515:       0.050483     53.326911     -0.055737     53.449842     0.052146     53.57305:       0.043169     48.188835     -0.047771     48.244346     0.044590     48.244346       0.034915     42.067473     -0.038773     42.164449     0.036094     42.164444       0.023020     36.978256     -0.031538     37.020853     0.029302     37.063498       0.023047     32.692372     -0.025741     32.730031     0.023873     32.76773       0.018835     29.070093     -0.021098     29.103581     0.019526     29.13710       0.015403     25.908747     -0.017291     25.968474     0.015986     25.998386       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.004536     18.747633     -0.009633     18.790850     0.008871     18.812496       0.007026     16.921794     -0.						
0.058889     59.148866     -0.064861     59.285219     0.060789     59.353513       0.050483     53.326911     -0.055737     53.449842     0.052146     53.573051       0.043169     48.188835     -0.047771     48.244346     0.044590     48.244346       0.034915     42.067473     -0.038773     42.164449     0.036094     42.164444       0.028320     36.978256     -0.031538     37.020853     0.029302     37.063498       0.023047     32.692372     -0.025741     32.730031     0.023873     32.76773       0.018835     29.070093     -0.021098     29.103581     0.019526     29.13710       0.015403     25.908747     -0.017291     25.968474     0.015986     25.99838       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.011685     20.866346     0.010777     20.89038*       0.007026     16.921794     -0.007949     16.941288     0.007315     16.96080*       0.005944     15.486255     -0.0						
0.050483     53.326911     -0.055737     53.449842     0.052146     53.573057       0.043169     48.188835     -0.047771     48.244346     0.044590     48.244346       0.034915     42.067473     -0.038773     42.164449     0.036094     42.164444       0.028320     36.978256     -0.031538     37.020853     0.029302     37.063498       0.023047     32.692372     -0.025741     32.730031     0.023873     32.76773       0.018835     29.070093     -0.021098     29.103581     0.019526     29.13710       0.015403     25.908747     -0.017291     25.968474     0.015986     25.99838       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.011685     20.866346     0.010777     20.89038*       0.007026     16.921794     -0.009633     18.790850     0.008871     18.81249*       0.007026     16.921794     -0.007499     16.941288     0.007315     16.96080*       0.005944     15.486255     -0.0						
0.043169     48.188835     -0.047771     48.244346     0.044590     48.244346       0.034915     42.067473     -0.038773     42.164449     0.036094     42.164436       0.028320     36.978256     -0.031538     37.020853     0.029302     37.06349       0.023047     32.692372     -0.025741     32.730031     0.023873     32.76773       0.018835     29.070093     -0.021098     29.103581     0.019526     29.137107       0.015403     25.908747     -0.017291     25.968474     0.015986     25.998388       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804       0.010363     20.842337     -0.011685     20.866346     0.010777     20.89038       0.008536     18.747633     -0.009633     18.790850     0.008871     18.812496       0.007026     16.921794     -0.007949     16.941288     0.007315     16.96080       0.005944     15.486255     -0.006726     15.504096     0.006179     15.521955       0.004583     13.534632     -0.006						
0.034915     42.067473     -0.038773     42.164449     0.036094     42.164449       0.028320     36.978256     -0.031538     37.020853     0.029302     37.063493       0.023047     32.692372     -0.025741     32.730031     0.023873     32.767735       0.018835     29.070093     -0.021098     29.103581     0.019526     29.137101       0.015403     25.908747     -0.017291     25.968474     0.015986     25.998385       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.011685     20.866346     0.010777     20.89038*       0.008536     18.747633     -0.009633     18.790850     0.008871     18.812496*       0.007026     16.921794     -0.007949     16.941288     0.007315     16.960806*       0.005944     15.486255     -0.006726     15.504096     0.006179     15.52195*       0.004583     13.534632     -0.005194     13.550222     0.004768     13.56883*       0.002797     10.506219 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
0.028320     36.978256     -0.031538     37.020853     0.029302     37.063498       0.023047     32.692372     -0.025741     32.730031     0.023873     32.76773       0.018835     29.070093     -0.021098     29.103581     0.019526     29.137107       0.015403     25.908747     -0.017291     25.968474     0.015986     25.99838       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.011685     20.866346     0.010777     20.89038       0.007026     16.921794     -0.007949     16.941288     0.007315     16.96080       0.005944     15.486255     -0.006726     15.504096     0.006179     15.521956       0.004583     13.534632     -0.005194     13.550222     0.004768     13.56583       0.003563     11.883556     -0.004053     11.897245     0.003715     11.91095*       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530436       0.002784     9.331392     -0.0025						
0.023047     32.692372     -0.025741     32.730031     0.023873     32.767735       0.018835     29.070093     -0.021098     29.103581     0.019526     29.13710       0.015030     25.908747     -0.017291     25.968474     0.015986     25.998386       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.011685     20.866346     0.010777     20.89038*       0.008536     18.747633     -0.009633     18.790850     0.008871     18.812496*       0.007026     16.921794     -0.007949     16.941288     0.007315     16.96080*       0.004583     13.534632     -0.006726     15.504096     0.006179     15.52195*       0.003563     11.883556     -0.004053     11.897245     0.003715     11.91095*       0.002797     10.506219     -0.003195     10.518321     0.002915     10.53043*       0.002218     9.331392     -0.002543     9.352903     0.002312     9.363676*       0.001764     8.326192     -0.0						
0.018835     29.070093     -0.021098     29.103581     0.019526     29.137107       0.015403     25.908747     -0.017291     25.968474     0.015986     25.998388       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.011685     20.866346     0.010777     20.89038*       0.008536     18.747633     -0.009633     18.790850     0.008871     18.812496*       0.007026     16.921794     -0.007949     16.941288     0.007315     16.96080*       0.005944     15.486255     -0.006726     15.504096     0.006179     15.52195*       0.003563     11.883556     -0.00453     11.897245     0.003715     11.91095*       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530436*       0.00218     9.331392     -0.002543     9.352903     0.002312     9.363676*       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.0016						
0.015403     25.908747     -0.017291     25.968474     0.015986     25.998388       0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.011685     20.866346     0.010777     20.890384       0.008536     18.747633     -0.009633     18.790850     0.008871     18.812496       0.007026     16.921794     -0.007949     16.941288     0.007315     16.96080       0.005944     15.486255     -0.006726     15.504096     0.006179     15.52195       0.004583     13.534632     -0.005194     13.550222     0.004768     13.56583       0.003563     11.883556     -0.004053     11.897245     0.003715     11.91095*       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530436       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001764     8.326192     -0.002030 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
0.012633     23.197780     -0.014207     23.251256     0.013114     23.27804*       0.010363     20.842337     -0.011685     20.866346     0.010777     20.890384*       0.008536     18.747633     -0.009633     18.790850     0.008871     18.812496*       0.007026     16.921794     -0.007949     16.941288     0.007315     16.960806*       0.005944     15.486255     -0.006726     15.504096     0.006179     15.52195*       0.004583     13.534632     -0.005194     13.550222     0.004768     13.56583*       0.003563     11.883556     -0.004053     11.897245     0.003715     11.91095*       0.002797     10.506219     -0.003195     10.518321     0.002915     10.53043*       0.001764     8.326192     -0.00230     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.000415     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885						
0.010363     20.842337     -0.011685     20.866346     0.010777     20.890384       0.008536     18.747633     -0.009633     18.790850     0.008871     18.812496       0.007026     16.921794     -0.007949     16.941288     0.007315     16.960804       0.005944     15.486255     -0.006726     15.504996     0.006179     15.521956       0.004583     13.534632     -0.005194     13.550222     0.004768     13.565833       0.003563     11.883556     -0.004053     11.897245     0.003715     11.910957       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530436       0.00218     9.331392     -0.002543     9.352903     0.002312     9.363676       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.00041     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000741     5.425583     -0.000885						
0.008536     18.747633     -0.009633     18.790850     0.008871     18.812496       0.007026     16.921794     -0.007949     16.941288     0.007315     16.960804       0.005944     15.486255     -0.006726     15.504096     0.006179     15.521956       0.004583     13.534632     -0.005194     13.550222     0.004768     13.565836       0.003563     11.883556     -0.004053     11.897245     0.003715     11.910957       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530436       0.002218     9.331392     -0.002543     9.352903     0.002312     9.363676       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.00131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000565     4.763722     -0.000684						
0.007026     16.921794     -0.007949     16.941288     0.007315     16.960802       0.005944     15.486255     -0.006726     15.504096     0.006179     15.521958       0.004583     13.534632     -0.005194     13.550222     0.004768     13.565833       0.003563     11.883556     -0.004053     11.897245     0.003715     11.91095       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530436       0.002218     9.331392     -0.002543     9.352903     0.002312     9.363676       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.00131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000426     4.161853     -0.000527						
0.005944     15.486255     -0.006726     15.504096     0.006179     15.521955       0.004583     13.534632     -0.005194     13.550222     0.004768     13.565833       0.003563     11.883556     -0.004053     11.897245     0.003715     11.910957       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530438       0.002218     9.331392     -0.002543     9.352903     0.002312     9.363676       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.00131     6.699313     -0.001320     6.698020     0.001198     6.705736       0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000426     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     <						
0.004583     13.534632     -0.005194     13.550222     0.004768     13.565833       0.003563     11.883556     -0.004053     11.897245     0.003715     11.91095       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530436       0.002218     9.331392     -0.002543     9.352903     0.002312     9.363676       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.001131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000741     5.425583     -0.00177     6.031794     0.000960     6.038741       0.000565     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000254     3.272711     -0.000303     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2						
0.003563     11.883556     -0.004053     11.897245     0.003715     11.91095       0.002797     10.506219     -0.003195     10.518321     0.002915     10.530436       0.002218     9.331392     -0.002543     9.352903     0.002312     9.363676       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.001131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000426     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.6	********					
0.002797     10.506219     -0.003195     10.518321     0.002915     10.530433       0.002218     9.331392     -0.002543     9.352903     0.002312     9.363676       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.001131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000426     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071						
0.002218     9.331392     -0.002543     9.352903     0.002312     9.363676       0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.001131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000565     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612						
0.001764     8.326192     -0.002030     8.335784     0.001837     8.355000       0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.001131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000565     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612						
0.001416     7.454979     -0.001638     7.472164     0.001472     7.472164       0.001131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000565     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.001131     6.690313     -0.001320     6.698020     0.001198     6.705736       0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000565     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.000915     6.017920     -0.001077     6.031794     0.000960     6.038741       0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000565     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000165     2.617533       0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.000741     5.425583     -0.000885     5.444355     0.000783     5.450626       0.000565     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000165     2.617533       0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.000565     4.763722     -0.000684     4.769210     0.000588     4.754705       0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000165     2.617533       0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.000426     4.161853     -0.000527     4.177788     0.000448     4.170438       0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000165     2.617533       0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.000324     3.660725     -0.000407     3.668144     0.000344     3.676792       0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000165     2.617533       0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.000254     3.272711     -0.000330     3.276639     0.000278     3.325727       0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000165     2.617533       0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.000190     2.872448     -0.000263     2.907182     0.000218     2.970792       0.000158     2.649739     -0.000216     2.617066     0.000165     2.617533       0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						
0.000158     2.649739     -0.000216     2.617066     0.000165     2.617533       0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227				3.276639		
0.000126     2.406508     -0.000180     2.370960     0.000125     2.315507       0.000089     2.090282     -0.000141     2.071612     0.000103     2.131227						2.970792
0.000089 2.090282 -0.000141 2.071612 0.000103 2.131227						2.617533
						2.315507
0.000070   1.907632   -0.000125   1.935455   0.000073   1.950594						2.131227
	0.000070	1.907632	-0.000125	1.935455	0.000073	1.850594
			-0.000105			1.747061
						1.602499
						1.308170
						1.264739
						1.157079
						0.924453
						0.792898
-0.000006 0.841386 -0.000033 0.780282 -0.000006 0.682531	-0.000006	0.841386	-0.000033	0.780282	-0.000006	0.682531
						0.590964
-0.000015	-0.000015	0.616765	-0.000027	0.630434	-0.000012	0.501475
-0.000017 0.529958 -0.000024 0.544930 -0.000014 0.431758	-0.000017	0.529958	-0.000024	0.544930	-0.000014	0.431758
-0.000019 0.458647 -0.000022 0.469734	-0.000019	0.458647	-0.000022	0.469734		



#### Ref: CR-280-1-08-SATB-A

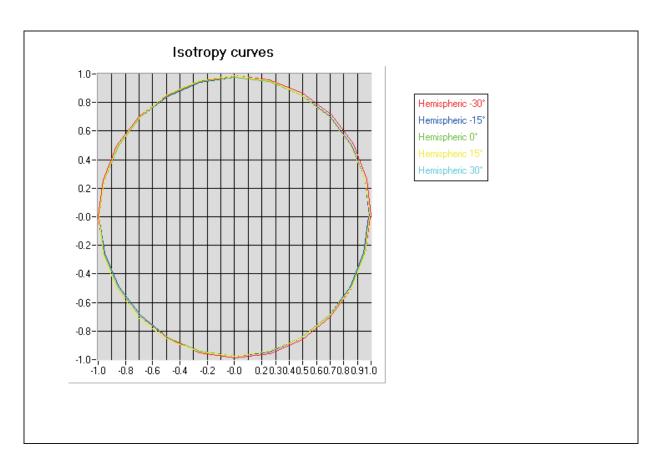
Page: 23/26 Issue: A Date: 2011/09/24

Sensitivity in liquid:

Liquid	3	σ	CF dipole 1	CF dipole 2	CF dipole 3
			(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>
			$(mV)^{-1}$	$(mV)^{-1}$	$(mV)^{-1}$
Head	42.00	1.40	40.977	35.416	39.388
Body	54.00	1.45	41.326	36.005	40.117

## B. Isotropy.

- Axial isotropy: 0.06 dB- Hemispherical isotropy: 0.07 dB



## C. Linearity.

- Linearity:

0.13 dB



Ref: CR-280-1-08-SATB-A

Page: 24/26 | Issue: A | Date: 2011/09/24

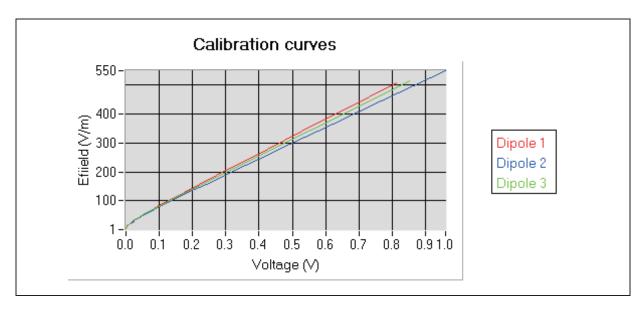
## 7. Calibration at 2450.00 MHz

#### A. Calibration parameters.

Label	2450
Epsilon	37.93
Sigma	1.89 S/m
Temperature	21℃
Cable loss	0.13 dB
Coupler loss	21.51 dB
Waveguide S11	-13.20 dB
Low limit detection	0.92 V/m (1.58 mW/kg)

Calibration curves ei=f(V) (i=1,2,3) allow to obtain E-field value using the formula:

$$E = \sqrt{{E_1}^2 * {E_2}^2 * {E_3}^2}$$





#### **Ref: CR-280-1-08-SATB-A**

v1 0.811011 0.654685 0.527958 0.426242	e1 506.364572 414.338278	-0.960250	e2 549.576775	v3 0.852378	e3 513.168901
0.654685 0.527958	414.338278		549.576775		21.3 108901
0.527958			440 005007	0.000400	
		-0.765658	443.865967	0.690132	421.007684
0.426242	339.653217	-0.620567	364.975082	0.555542	344.472882
	279.610707	-0.492754	295.384135	0.448357	283.424871
0.343625	230.727305	-0.399627	244.577703	0.360025	232.997679
0.272758	188.648406	-0.320299	201.177838	0.289397	192.540954
0.219562	156.902806	-0.255170	165.396787	0.231016	158.937231
0.175415	130.373321	-0.205220	137.792360	0.187773	133.881325
0.141416	109.746862	-0.163038	114.288007	0.151432	112.638859
0.114684	93.328263	-0.131858	96.719904	0.122274	95.390988
0.092577	79.531494	-0.106512	82.235294	0.098545	81.132443
0.074356	67.920300	-0.084551	69.442209	0.078767	69.000273
0.059797	58.393153	-0.068505	59.864104	0.063888	59.636096
0.048340	50.651528	-0.054651	51.344452	0.051593	51.656619
0.038647	43.841849	-0.043800	44.418369	0.041113	44.588164
0.031040	38.242197	-0.035080	38.602454	0.033393	39.142320
0.024879	33.458730	-0.028075	33.684563	0.026560	34.065375
0.020174	29.583828	-0.022652	29.652906	0.021545	30.111874
0.012901	22.966984	-0.014603	23.072995	0.013652	23.232931
0.011713	21.782313	-0.013215	21.807405	0.012179	21.832526
0.009144	19.037240	-0.010337	19.081125	0.009516	19.081125
0.007180	16.734163	-0.008138	16.753440	0.007467	16.772738
0.005669	14.777602	-0.006448	14.811669	0.005904	14.811669
0.004512	13.125141	-0.005148	13.155398	0.004710	13.155398
0.003623	11.711270	-0.004135	11.724760	0.003775	11.738267
0.002917	10.473792	-0.003340	10.497939	0.003038	10.510032
0.002366	9.410312	-0.002706	9.421152	0.002464	9.421152
0.001911	8.464552	-0.002207	8.484065	0.001997	8.484065
0.001554	7.640188	-0.001806	7.648988	0.001630	7.657799
0.001292	6.949638	-0.001507	6.975959	0.001346	6.975959
0.000981	6.073873	-0.001152	6.089814	0.001035	6.096828
0.000753	5.341375	-0.000898	5.359250	0.000788	5.353082
0.000591	4.752804	-0.000705	4.727200	0.000617	4.732646
0.000455	4.195415	-0.000560	4.209852	0.000485	4.193764
0.000359	3.752442	-0.000450	3.761341	0.000376	3.750627
0.000282	3.355136	-0.000357	3.335421	0.000296	3.358180
0.000222	3.009404	-0.000295	3.018267	0.000240	3.042913
0.000184	2.768196	-0.000241	2.711983	0.000186	2.707184
0.000144	2.489167	-0.000206	2.493450	0.000153	2.479740
0.000113	2.249238	-0.000171	2.253828	0.000121	2.237214
0.000080	1.961844	-0.000142	2.034010	0.000097	2.036452
0.000052	1.679871	-0.000108	1.741305	0.000063	1.712208
0.000040	1.543335	-0.000088	1.543409	0.000045	1.512668
0.000026	1.366913	-0.000075	1.399853	0.000036	1.402290
0.000012	1.169294	-0.000066	1.291153	0.000023	1.225427
0.000003	1.010080	-0.000056	1.158473	0.000017	1.134538
-0.000005	0.857979	-0.000046	1.008485	0.000011	1.035703
-0.000010	0.733105	-0.000045	0.992241	0.000008	0.982563
-0.000014	0.623382	-0.000037	0.854719	0.000005	0.926381
-0.000017	0.530190	-0.000031	0.734132	0.000005	0.926381
		-0.000027	0.633745	-0.000001	0.802299
		-0.000024	0.541792	-0.000006	0.686256
				-0.000009	0.593698
				-0.000012	0.512925



#### Ref: CR-280-1-08-SATB-A

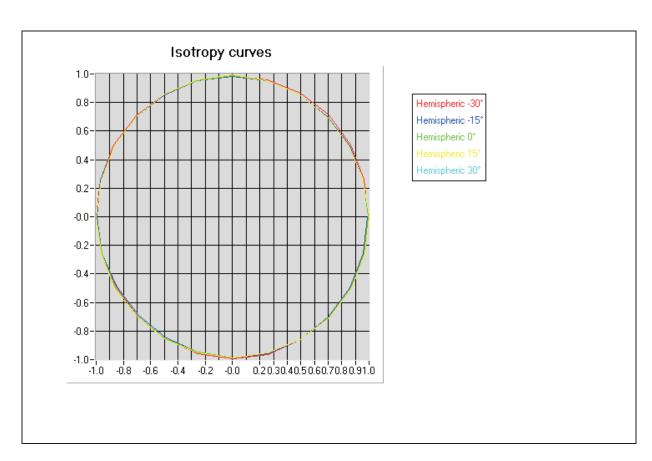
Page: 26/26 Issue: A Date: 2011/09/24

Sensitivity in liquid:

	1				
Liquid	3	σ	CF dipole 1	CF dipole 2	CF dipole 3
			(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>	(W.kg <sup>-1</sup>
			$(mV)^{-1}$	$(mV)^{-1}$	$(mV)^{-1}$
Head	39.20	1.80	39.563	33.614	37.677
Body	52.50	1.78	39.772	33.946	37.835

## B. Isotropy.

- Axial isotropy: 0.06 dB- Hemispherical isotropy: 0.06 dB



## C. Linearity.

- Linearity:

0.13 dB